ATTACHMENT 22
CURRENT TARIFF OF RATES AND CHARGES
JANUARY 1, 2018
POWERSTREAM RZ

Alectra Utilities Corporation
PowerStream Rate Zone
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2018
Implementation Date May 1, 2018

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2017-0024

RESIDENTIAL SERVICE CLASSIFICATION

This classification refers to an account taking electricity at 750 volts or less where the electricity is used exclusively in a separately metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triplex or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. Multi-unit residential establishments such as apartment buildings supplied through one service (bulk metered) shall be classified as general service. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	21.63
Smart Metering Entity Charge - effective until December 31, 2022	$	0.57
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$	0.12
Rate Rider for Recovery of Stranded Meter Assets (2016) – effective until September 30, 2018	$	0.06
Rate Rider for Recovery of Incremental Capital (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$	0.11
Rate Rider for Recovery of 2018 Foregone Revenue - effective May 1, 2018 until December 31, 2018	$	0.14
Distribution Volumetric Rate	$/kWh	0.0088
Low Voltage Service Rate	$/kWh	0.0005
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until September 30, 2018		
Applicable only for Non-RPP Customers	$/kWh	0.0062
Rate Rider for Disposition of Global Adjustment Account (2018) - effective May 1, 2018 until April 30, 2019		
Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kWh	0.0003
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kWh	(0.0003)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective May 1, 2018 until April 30, 2019	$/kWh	(0.0030)
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective May 1, 2018 until April 30, 2019		
Applicable Only for Class B Customers	$/kWh	0.0002
Retail Transmission Rate - Network Service Rate	$/kWh	0.0075
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0040

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra Utilities Corporation
PowerStream Rate Zone
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2018
Implementation Date May 1, 2018

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2017-0024

GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION

This classification refers to a non-residential account taking electricity at 750 volts or less wheose monthly average peak demand is less than, or is forecast to be less than, 50 kW. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	29.00
Smart Metering Entity Charge - effective until December 31, 2022	$	0.57
Rate Rider for Recovery of Stranded Meter Assets (2016) – effective until September 30, 2018	$	0.21
Rate Rider for Recovery of Incremental Capital (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$	0.12
Rate Rider for Recovery of 2018 Foregone Revenue - effective May 1, 2018 until December 31, 2018	$	0.40
Distribution Volumetric Rate	$/kWh	0.0185
Low Voltage Service Rate	$/kWh	0.0004
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until September 30, 2018 Applicable only for Non-RPP Customers	$/kWh	0.0062
Rate Rider for Disposition of Global Adjustment Account (2018) - effective May 1, 2018 until April 30, 2019 Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kWh	0.0003
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kWh	(0.0003)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective May 1, 2018 until April 30, 2019	$/kWh	(0.0030)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kWh	0.0002
Rate Rider for Recovery of Incremental Capital (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$/kWh	0.0001
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective May 1, 2018 until April 30, 2019 Applicable Only for Class B Customers	$/kWh	0.0002
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective May 1, 2018 until April 30, 2019	$/kWh	0.0009
Retail Transmission Rate - Network Service Rate	$/kWh	0.0067
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0035

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra Utilities Corporation
PowerStream Rate Zone
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2018
Implementation Date May 1, 2018

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EB-2017-0024

GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION

This classification refers to a non-residential account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 5,000 kW, both regular and interval metered. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

The rate rider for the disposition of WMS – Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

The rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate order is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	142.24
Rate Rider for Recovery of Incremental Capital (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$	0.57
Rate Rider for Recovery of 2018 Foregone Revenue - effective May 1, 2018 until December 31, 2018	$	4.21
Distribution Volumetric Rate	$/kW	4.2415
Low Voltage Service Rate	$/kW	0.1589
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018 Applicable only to non-RPP non-Interval Metered Customers	$/kW	2.3303
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018 Applicable only for Class B Interval Metered Customers at December 31, 2016	$/kW	(1.6412)
Rate Rider for Disposition of Global Adjustment Account (2018) - effective May 1, 2018 until April 30, 2019 Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.1169
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kW	(0.1224)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective May 1, 2018 until April 30, 2019	$/kW	0.0184
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective May 1, 2018 until April 30, 2019 Applicable only for Non-Wholesale Market Participants	$/kW	(1.1367)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.0620
Rate Rider for Recovery of Incremental Capital (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$/kW	0.0168
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective May 1, 2018 until April 30, 2019	$/kW	0.0796
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective May 1, 2018 until April 30, 2019 Applicable Only for Class B Customers	$/kW	0.0905
Retail Transmission Rate - Network Service Rate	$/kW	2.6739
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	1.3420
Retail Transmission Rate - Network Service Rate – Interval Metered	$/kW	2.8030
Retail Transmission Rate - Line and Transformation Connection Service Rate – Interval Metered	$/kW	1.4520

Alectra Utilities Corporation
PowerStream Rate Zone
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2018
Implementation Date May 1, 2018

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2017-0024

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra Utilities Corporation
PowerStream Rate Zone
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Implementation Date May 1, 2018

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EB-2017-0024

LARGE USE SERVICE CLASSIFICATION

This classification refers to an account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	6,128.34
Rate Rider for Recovery of Incremental Capital (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$	24.34
Rate Rider for Recovery of 2018 Foregone Revenue - effective May 1, 2018 until December 31, 2018	$	97.02
Distribution Volumetric Rate	$/kW	2.2623
Low Voltage Service Rate	$/kW	0.1630
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.1584
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kW	(0.1659)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective May 1, 2018 until April 30, 2019	$/kW	(1.3235)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.0840
Rate Rider for Recovery of Incremental Capital (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$/kW	0.0090
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective May 1, 2018 until April 30, 2019	$/kW	(0.0723)
Retail Transmission Rate - Network Service Rate	$/kW	3.2305
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	1.4016

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra Utilities Corporation
PowerStream Rate Zone
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2018
Implementation Date May 1, 2018

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2017-0024

STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that has Load Displacement Generation and requires the distributor to provide back-up service. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

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MONTHLY RATES AND CHARGES – Delivery Component - APPROVED ON AN INTERIM BASIS

Standby Charge – for a month where standby power is not provided. The charge is applied to the contracted amount (e.g. nameplate rating of generation facility).	$/kW	2.8334

Alectra Utilities Corporation
PowerStream Rate Zone
TARIFF OF RATES AND CHARGES
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Implementation Date May 1, 2018

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EB-2017-0024

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification refers to an account taking electricity at 750 volts or less whose average monthly peak demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The customer will provide detailed manufacturer information/documentation with regard to electrical demand/consumption of the proposed unmetered load. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

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The rate rider for the disposition of WMS – Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

The rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate order is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	8.68
Rate Rider for Recovery of Incremental Capital (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$	0.03
Rate Rider for Recovery of 2018 Foregone Revenue - effective May 1, 2018 until December 31, 2018	$	0.08
Distribution Volumetric Rate	$/kWh	0.0197
Low Voltage Service Rate	$/kWh	0.0005
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018 Applicable only for non-RPP Customers	$/kWh	0.0062
Rate Rider for Disposition of Global Adjustment Account (2018) - effective May 1, 2018 until April 30, 2019 Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kWh	0.0003
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kWh	(0.0003)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective May 1, 2018 until April 30, 2019	$/kWh	(0.0029)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kWh	0.0002
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective May 1, 2018 until April 30, 2019 Applicable Only for Class B Customers	$/kWh	0.0002
Rate Rider for Recovery of Incremental Capital (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$/kWh	0.0001
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective May 1, 2018 until April 30, 2019	$/kWh	(0.0005)
Retail Transmission Rate - Network Service Rate	$/kWh	0.0063
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0037

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra Utilities Corporation
PowerStream Rate Zone
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2018
Implementation Date May 1, 2018

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EB-2017-0024

SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to an unmetered lighting load supplied to a sentinel light. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

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The rate rider for the disposition of WMS – Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

The rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate order is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per Connection)	$	4.23
Rate Rider for Recovery of Incremental Capital (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$	0.02
Rate Rider for Recovery of 2018 Foregone Revenue - effective May 1, 2018 until December 31, 2018	$	0.04
Distribution Volumetric Rate	$/kW	9.9582
Low Voltage Service Rate	$/kW	0.1170
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018 Applicable only for non-RPP Customers	$/kW	2.3977
Rate Rider for Disposition of Global Adjustment Account (2018) - effective May 1, 2018 until April 30, 2019 Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.1210
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kW	(0.1267)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective May 1, 2018 until April 30, 2019	$/kW	(1.0740)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.0641
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective May 1, 2018 until April 30, 2019 Applicable Only for Class B Customers	$/kW	0.0895
Rate Rider for Recovery of Incremental Capital (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$/kW	0.0396
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective May 1, 2018 until April 30, 2019	$/kW	(0.3850)
Retail Transmission Rate - Network Service Rate	$/kW	2.0778
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	0.9929

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra Utilities Corporation
PowerStream Rate Zone
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Implementation Date May 1, 2018

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EB-2017-0024

STREET LIGHTING SERVICE CLASSIFICATION

This classification applies to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting operation, controlled by photo cells. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved Ontario Energy Board street lighting load shape template. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

The rate rider for the disposition of WMS – Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

The rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate order is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per Connection)	$	1.20
Rate Rider for Recovery of 2018 Foregone Revenue - effective May 1, 2018 until December 31, 2018	$	0.01
Distribution Volumetric Rate	$/kW	6.3791
Low Voltage Service Rate	$/kW	0.1288
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018 Applicable Only for Non-RPP Customers	$/kW	2.2128
Rate Rider for Disposition of Global Adjustment Account (2018) - effective May 1, 2018 until April 30, 2019 Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.1116
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kW	(0.1169)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective May 1, 2018 until April 30, 2019	$/kW	(1.0519)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.0592
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective May 1, 2018 until April 30, 2019 Applicable Only for Class B Customers	$/kW	0.0870
Rate Rider for Recovery of Incremental Capital (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$/kW	0.0253
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective May 1, 2018 until April 30, 2019	$/kW	0.5854
Retail Transmission Rate - Network Service Rate	$/kW	2.6888
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	1.4379

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra Utilities Corporation
PowerStream Rate Zone
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2018
Implementation Date May 1, 2018

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2017-0024

MicroFIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	5.40

ALLOWANCES

Transformer Allowance for Ownership - per kW of billing demand/month	$/kW	(0.60)
Primary Metering Allowance for Transformer Losses - applied to measured demand & energy	%	(1.00)

Alectra Utilities Corporation
PowerStream Rate Zone
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2018
Implementation Date May 1, 2018

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EB-2017-0024

SPECIFIC SERVICE CHARGES

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

Customer Administration

Arrears certificate	$	15.00
Statement of account	$	15.00
Duplicate invoices for previous billing	$	15.00
Request for other billing information	$	15.00
Easement Letter	$	15.00
Income tax letter	$	15.00
Account history	$	15.00
Returned cheque (plus bank charges)	$	15.00
Legal letter charge	$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	$	30.00
Special meter reads	$	30.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	$	30.00

Non-Payment of Account

Late payment - per month	%	1.50
Late payment - per annum	%	19.56
Collection of account charge - no disconnection	$	30.00
Disconnect/reconnect at meter - during regular hours	$	65.00
Disconnect/reconnect at meter - after regular hours	$	185.00

Other

Install/remove load Control device - during regular hours	$	65.00
Install/remove load control device - after regular hours	$	185.00
Disconnect/reconnect at meter - during regular hours	$	65.00
Disconnect/reconnect at meter - after regular hours	$	185.00
Disconnect/reconnect at pole - during regular hours	$	185.00
Disconnect/reconnect at pole - after regular hours	$	415.00
Specific Charge for Access to the Power Poles - $/pole/year (with the exception of wireless attachments) - in effect until August 31, 2018	$	22.35
Specific Charge for Access to the Power Poles - $/pole/year (with the exception of wireless attachments) - in effect from September 1, 2018 until December 31, 2018	$	28.09
Specific Charge for Access to the Power Poles - $/pole/year (with the exception of wireless attachments) - in effect from January 1, 2019	$	43.63
Temporary Service install and remove - overhead - no transformer	$	500.00

Alectra Utilities Corporation
PowerStream Rate Zone
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2018
Implementation Date May 1, 2018

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2017-0024

RETAIL SERVICE CHARGES (if applicable)

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity.

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	$	100.00
Monthly fixed charge, per retailer	$	20.00
Monthly variable charge, per customer, per retailer	$/cust.	0.50
Distributor-consolidated billing monthly charge, per customer, per retailer	$/cust.	0.30
Retailer-consolidated billing monthly credit, per customer, per retailer	$/cust.	(0.30)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	$	0.25
Processing fee, per request, applied to the requesting party	$	0.50
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail Settlement Code directly to retailers and customers, if not delivered electronically through the Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	$	no charge
More than twice a year, per request (plus incremental delivery costs)	$	2.00

LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing cycle.

Total Loss Factor - Secondary Metered Customer < 5,000 kW	1.0369
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0145
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0266
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0045

ATTACHMENT 23
PROPOSED TARIFF OF RATES AND CHARGES
JANUARY 1, 2019
POWERSTREAM RZ

INCENTIVE REGULATION MODEL FOR 2019 FILERS

Alectra - PowerStream
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2019
Implementation Date January 1, 2019

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2018-0016

RESIDENTIAL SERVICE CLASSIFICATION

This classification refers to an account taking electricity at 750 volts or less where the electricity is used exclusively in a separately metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triplex or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. Multi-unit residential establishments such as apartment buildings supplied through one service (bulk metered) shall be classified as general service. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	24.83
Smart Metering Entity Charge - effective until December 31, 2022	$	0.57
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$	0.11
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$	0.16
Distribution Volumetric Rate	$/kWh	0.0044
Low Voltage Service Rate	$/kWh	0.0005
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019 Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable Only for Non-RPP Customers	$/kWh	0.0018
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kWh	(0.0030)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019	$/kWh	(0.0010)
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019 Applicable Only for Class B Customers	$/kWh	0.0002
Retail Transmission Rate - Network Service Rate	$/kWh	0.0073
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0040

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION

This classification refers to a non-residential account taking electricity at 750 volts or less wheose monthly average peak demand is less than, or is forecast to be less than, 50 kW. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	29.26
Smart Metering Entity Charge - effective until December 31, 2022	$	0.57
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$	0.12
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$	0.17
Distribution Volumetric Rate	$/kWh	0.0187
Low Voltage Service Rate	$/kWh	0.0004
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019 Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable Only for Non-RPP Customers	$/kWh	0.0018
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kWh	(0.0030)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019	$/kWh	(0.0009)
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019 Applicable Only for Class B Customers	$/kWh	0.0002
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective until April 30, 2019	$/kWh	0.0009
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kWh	0.0006
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$/kWh	0.0001
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$/kWh	0.0001
Retail Transmission Rate – Network Service Rate	$/kWh	0.0065
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0035

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION

This classification refers to a non-residential account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 5,000 kW, both regular and interval metered. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

The rate rider for the disposition of WMS – Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

The rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate order is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	143.52
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$	0.57
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$	0.84
Distribution Volumetric Rate	$/kW	4.2797
Low Voltage Service Rate	$/kW	0.1589
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019 Applicable only for Non-RPP Customers	$/kwh	0.0004
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable Only for Non-RPP Customers non-Interval Metered	$/kWh	0.0018
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kW	0.0184
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019	$/kW	(0.2953)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019 Applicable only for Non-Wholesale Market Partic	$/kW	(1.1367)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 Applicable only for Non-Wholesale Market Participants	$/kW	(0.0453)
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019 Applicable Only for Class B Customers	$/kW	0.0905
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable Only for Class B Customers	$/kW	(0.0046)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective until April 30, 2019	$/kW	0.0796
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kW	0.0886
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$/kW	0.0168
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$/kW	0.0249
Retail Transmission Rate – Network Service Rate	$/kW	2.6130
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.3338
Retail Transmission Rate – Network Service Rate – Interval Metered	$/kW	2.7391
Retail Transmission Rate – Line and Transformation Connection Service Rate – Interval Metered	$/kW	1.4431

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

LARGE USE SERVICE CLASSIFICATION

This classification refers to an account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

The rate rider for the disposition of WMS – Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new Class B customers.

The rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate order is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	6,183.50
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$	24.34
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$	35.99
Distribution Volumetric Rate	$/kW	2.2827
Low Voltage Service Rate	$/kW	0.1630
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kW	(1.3235)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019	$/kW	(0.5809)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective until April 30, 2019	$/kW	(0.0723)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kW	(0.0705)
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$/kW	0.0090
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$/kW	0.0133
Retail Transmission Rate – Network Service Rate	$/kW	3.1569
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.3931

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that has Load Displacement Generation and requires the distributor to provide back-up service. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component - APPROVED ON AN INTERIM BASIS

Standby Charge – for a month where standby power is not provided. The charge is applied to the contracted amount (e.g. nameplate rating of generation facility).	$/kW	2.8589

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification refers to an account taking electricity at 750 volts or less whose average monthly peak demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The customer will provide detailed manufacturer information/documentation with regard to electrical demand/consumption of the proposed unmetered load. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	8.76
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$	0.03
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$	0.05
Distribution Volumetric Rate	$/kWh	0.0199
Low Voltage Service Rate	$/kWh	0.0005
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019 Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable Only for Non-RPP Customers	$/kWh	0.0018
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kWh	(0.0029)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019	$/kWh	(0.0009)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective until April 30, 2019	$/kWh	(0.0005)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kWh	(0.0003)
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019 Applicable Only for Class B Customers	$/kWh	0.0002
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$/kWh	0.0001
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$/kWh	0.0001
Retail Transmission Rate – Network Service Rate	$/kWh	0.0062
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0037

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to an unmetered lighting load supplied to a sentinel light. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per Connection)	$	4.27
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$	0.02
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$	0.02
Distribution Volumetric Rate	$/kW	10.0478
Low Voltage Service Rate	$/kW	0.1170
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019 Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable Only for Non-RPP Customers	$/kWh	0.0018
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kW	(1.0740)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019	$/kW	(0.3377)
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019 Applicable Only for Class B Customers	$/kW	0.0895
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable Only for Class B Customers	$/kW	(0.0050)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective until April 30, 2019	$/kW	(0.3850)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kW	(0.2176)
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$/kW	0.0396
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$/kW	0.0585
Retail Transmission Rate – Network Service Rate	$/kW	2.0304
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	0.9869

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

STREET LIGHTING SERVICE CLASSIFICATION

This classification applies to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting operation, controlled by photo cells. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved Ontario Energy Board street lighting load shape template. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per Connection)	$	1.21
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$	0.01
Distribution Volumetric Rate	$/kW	6.4365
Low Voltage Service Rate	$/kW	0.1288
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019 Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable Only for Non-RPP Customers	$/kWh	0.0018
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kW	(1.0519)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019	$/kW	(0.3185)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective until April 30, 2019	$/kW	0.5854
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kW	1.2612
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019 Applicable Only for Class B Customers	$/kW	0.0870
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable Only for Class B Customers	$/kW	(0.0047)
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$/kW	0.0253
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$/kW	0.0375
Retail Transmission Rate – Network Service Rate	$/kW	2.6275
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.4291

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

MicroFIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	5.40

ALLOWANCES

Transformer Allowance for Ownership - per kW of billing demand/month	$/kW	(0.60)
Primary Metering Allowance for Transformer Losses - applied to measured demand & energy	%	(1.00)

SPECIFIC SERVICE CHARGES

APPLICATION

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Customer Administration

Arrears certificate	$	15.00
Statement of account	$	15.00
Duplicate invoices for previous billing	$	15.00
Request for other billing information	$	15.00
Easement Letter	$	15.00
Income tax letter	$	15.00
Account history	$	15.00
Returned Cheque (plus bank charges)	$	15.00
Legal letter charge	$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	$	30.00
Special meter reads	$	30.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	$	30.00

Non-Payment of Account

Late Payment - per month	%	1.50
Late Payment - per annum	%	19.56
Collection of account charge - no disconnection	$	30.00
Disconnect/Reconnect at Meter - during regular hours	$	65.00
Disconnect/Reconnect at Meter - after regular hours	$	185.00

Other

Install/Remove Load Control Device - during regular hours	$	65.00
Install/Remove Load Control Device - after regular hours	$	185.00
Disconnect/Reconnect at Meter - during regular hours	$	65.00
Disconnect/Reconnect at Meter - after regular hours	$	185.00
Disconnect/Reconnect at Pole - during regular hours	$	185.00
Disconnect/Reconnect at Pole - after regular hours	$	415.00
Specific Charge for Access to the Power Poles - $/pole/year (with the exception of wireless attachments) - in effect from January 1, 2019	$	43.63
Temporary Service install and remove - overhead - no transformer	$	500.00

RETAIL SERVICE CHARGES (if applicable)

APPLICATION

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Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity.

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	$	100.00
Monthly Fixed Charge, per retailer	$	20.00
Monthly Variable Charge, per customer, per retailer	$/cust.	0.50
Distributor-consolidated billing monthly charge, per customer, per retailer	$/cust.	0.30
Retailer-consolidated billing monthly credit, per customer, per retailer	$/cust.	(0.30)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	$	0.25
Processing fee, per request, applied to the requesting party	$	0.50
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail Settlement Code directly to retailers and customers, if not delivered electronically through the Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	$	no charge
More than twice a year, per request (plus incremental delivery costs)	$	2.00

LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing cycle.

Total Loss Factor - Secondary Metered Customer < 5,000 kW	1.0369
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0145
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0266
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0045

ATTACHMENT 24
CUSTOMER BILL IMPACTS
POWERSTREAM RZ

INCENTIVE REGULATION MODEL FOR 2019 FILERS

The bill comparisons below must be provided for typical customers and consumption levels. Bill impacts must be provided for residential customers consuming 750 kWh per month and general service customers consuming 2,000 kWh per month and having a monthly demand of less than 50 kW. Include bill comparisons for Non-RPP (retailer) as well. **To assess the combined effects of the shift to fixed rates and other bill impacts associated with changes in the cost of distribution service, applicants are to include a total bill impact for a residential customer at the distributor's 10th consumption percentile (In other words, 10% of a distributor's residential customers consume at or less than this level of consumption on a monthly basis). Refer to page 9 of the Filing Requirements For Electricity Distribution Rate Applications issued July 14, 2016.**

For certain classes where one or more customers have unique consumption and demand patterns and which may be significantly impacted by the proposed rate changes, the distributor must show a typical comparison, and provide an explanation.

Note:
1. For those classes that are not eligible for the RPP price, the weighted average price including Class B GA through end of February 2017 of $0.1058/kWh (IESO's Monthly Market Report for February 2017, page 22) has been used to represent the cost of power. For those classes on a retailer contract, applicants should enter the contract price (plus GA) for a more accurate estimate. Changes to the cost of power can be made directly on the bill impact table for the specific class.
2. Please enter the applicable billing determinant (e.g. number of connections or devices) to be applied to the monthly service charge for unmetered rate classes in column N. If the monthly service charge is applied on a per customer basis, enter the number "1". Distributors should provide the number of connections or devices reflective of a typical customer in each class.

Table 1

RATE CLASSES / CATEGORIES ***(eg: Residential TOU, Residential Retailer)***		**Units**	**RPP? Non-RPP Retailer? Non-RPP Other?**	**Current Loss Factor**	**Proposed Loss Factor**	**Consumption (kWh)**	**Demand kW (if applicable)**	**RTSR**	**Billing Determinant Applied to Fixed Charge for Unmetered Classes (e.g. # of devices/connections)**
RESIDENTIAL SERVICE CLASSIFICATION		kWh	RPP	1.0369	1.0369	750		N/A	
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION		kWh	RPP	1.0369	1.0369	2,000		N/A	
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION		kW	Non-RPP (Other)	1.0369	1.0369	80,000	250	DEMAND	
LARGE USE SERVICE CLASSIFICATION		kW	Non-RPP (Other)	1.0145	1.0145	2,800,000	7,350	DEMAND	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION		kWh	RPP	1.0369	1.0369	150		N/A	1
STANDBY POWER SERVICE CLASSIFICATION		kW						N/A	
SENTINEL LIGHTING SERVICE CLASSIFICATION		kW	RPP	1.0369	1.0369	180	1	DEMAND	1
STREET LIGHTING SERVICE CLASSIFICATION		kW	Non-RPP (Other)	1.0369	1.0369	280	1	DEMAND	1
RESIDENTIAL SERVICE CLASSIFICATION	*(10th consumptio*	kWh	RPP	1.0369	1.0369	309		N/A	
RESIDENTIAL SERVICE CLASSIFICATION	*(Retailer)*		Non-RPP (Retailer)	1.0369	1.0369	750		N/A	
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	*(Retailer)*		Non-RPP (Retailer)	1.0369	1.0369	2,000		N/A	
Add additional scenarios if required									
Add additional scenarios if required									
Add additional scenarios if required									
Add additional scenarios if required									
Add additional scenarios if required									
Add additional scenarios if required									
Add additional scenarios if required									
Add additional scenarios if required									

Table 2

RATE CLASSES / CATEGORIES *(eg: Residential TOU, Residential Retailer)*	Units	Sub-Total						Total	
		A		B		C		A + B + C	
		$	%	$	%	$	%	$	%
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kWh	$ 0.15	0.5%	$ (0.78)	-2.6%	$ (0.94)	-2.4%	$ (0.99)	-0.9%
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION - RPP	kWh	$ 1.83	2.7%	$ (0.58)	-0.8%	$ (0.99)	-1.1%	$ (15.74)	-5.4%
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ 35.83	2.9%	$ (503.17)	-30.6%	$ (520.45)	-19.7%	$ (1,220.90)	-8.9%
LARGE USE SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ (276.64)	-1.2%	$ (5,108.53)	-35.4%	$ (5,711.96)	-11.8%	$ (28,602.52)	-6.8%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION - RPP	kWh	$ 0.05	0.4%	$ (0.12)	-1.0%	$ (0.13)	-1.0%	$ (1.34)	-4.3%
STANDBY POWER SERVICE CLASSIFICATION -	kW	$ -	0.0%	$ -	0.0%	$ -	0.0%	$ -	0.0%
SENTINEL LIGHTING SERVICE CLASSIFICATION - RPP	kW	$ (0.05)	-0.4%	$ (2.85)	-17.8%	$ (2.90)	-15.2%	$ (4.70)	-11.5%
STREET LIGHTING SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ 1.37	16.7%	$ (0.72)	-6.7%	$ (0.79)	-5.3%	$ (3.11)	-5.8%
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kWh	$ 1.95	7.9%	$ 1.46	5.7%	$ 1.40	4.8%	$ 1.47	2.5%
RESIDENTIAL SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	$ 0.15	0.5%	$ (4.09)	-11.6%	$ (4.24)	-9.6%	$ (4.45)	-3.4%
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	$ 1.83	2.7%	$ (9.38)	-10.9%	$ (9.79)	-9.2%	$ (24.98)	-7.1%

Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION
RPP / Non-RPP:	RPP (Class B)
Consumption	750 kWh
Demand	- kW
Current Loss Factor	1.0369
Proposed/Approved Loss Factor	1.0369

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 21.63	1	$ 21.63	$ 24.83	1	$ 24.83	$ 3.20	14.79%
Distribution Volumetric Rate	$ 0.0088	750	$ 6.60	$ 0.0044	750	$ 3.30	$ (3.30)	-50.00%
Fixed Rate Riders	$ 0.25	1	$ 0.25	$ 0.27	1	$ 0.27	$ 0.02	8.00%
Volumetric Rate Riders	$ -	750	$ -	$ 0.0003	750	$ 0.23	$ 0.23	
Sub-Total A (excluding pass through)			$ 28.48			$ 28.63	**$ 0.15**	**0.51%**
Line Losses on Cost of Power	$ 0.0820	28	$ 2.27	$ 0.0820	28	$ 2.27	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0028	750	$ (2.10)	-$ 0.0038	750	$ (2.85)	$ (0.75)	35.71%
GA Rate Riders								
Low Voltage Service Charge	$ 0.0005	750	$ 0.38	$ 0.0005	750	$ 0.38	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.75	1	$ 0.75	$ 0.57	1	$ 0.57	$ (0.18)	-24.00%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 29.77**			**$ 28.99**	**$ (0.78)**	**-2.64%**
RTSR - Network	$ 0.0075	778	$ 5.83	$ 0.0073	778	$ 5.68	$ (0.16)	-2.67%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0040	778	$ 3.11	$ 0.0040	778	$ 3.11	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 38.72**			**$ 37.78**	**$ (0.94)**	**-2.43%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	778	$ 2.80	$ 0.0036	778	$ 2.80	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	778	$ 0.23	$ 0.0003	778	$ 0.23	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)								
							$ -	
TOU - Off Peak	$ 0.0650	488	$ 31.69	$ 0.0650	488	$ 31.69	$ -	0.00%
TOU - Mid Peak	$ 0.0940	128	$ 11.99	$ 0.0940	128	$ 11.99	$ -	0.00%
TOU - On Peak	$ 0.1320	135	$ 17.82	$ 0.1320	135	$ 17.82	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1038	750	$ 77.85	$ 0.1038	750	$ 77.85	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1038	750	$ 77.85	$ 0.1038	750	$ 77.85	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 103.49**			**$ 102.55**	**$ (0.94)**	**-0.91%**
HST	13%		$ 13.45	13%		$ 13.33	$ (0.12)	-0.91%
Total Bill on TOU (before 8% Provincial Rebate)			**$ 116.95**			**$ 115.88**	**$ (1.06)**	-0.91%
8% Provincial Rebate	-8%		$ (8.28)	-8%		$ (8.20)	$ 0.08	-0.91%
Total Bill on TOU			**$ 108.67**			**$ 107.68**	**$ (0.99)**	**-0.91%**
Total Bill on Non-RPP Avg. Price			**$ 119.85**			**$ 118.91**	**$ (0.94)**	**-0.78%**
HST	13%		$ 15.58	13%		$ 15.46	$ (0.12)	-0.78%
Provincial Rebate	-8%		$ (9.59)	-8%		$ (9.51)	$ 0.08	-0.78%
Total Bill on Non-RPP Avg. Price			**$ 125.84**			**$ 124.86**	**$ (0.99)**	**-0.78%**
Total Bill on Average IESO Wholesale Market Price			**$ 119.85**			**$ 118.91**	**$ (0.94)**	**-0.78%**
HST	13%		$ 15.58	13%		$ 15.46	$ (0.12)	-0.78%
Provincial Rebate	-8%		$ (9.59)	-8%		$ (9.51)	$ 0.08	-0.78%
Total Bill on Average IESO Wholesale Market Price			**$ 125.84**			**$ 124.86**	**$ (0.99)**	**-0.78%**

-2.6%

Customer Class:	**GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION**
RPP / Non-RPP:	**RPP** — **Class B**
Consumption	**2,000** kWh
Demand	**-** kW
Current Loss Factor	**1.0369**
Proposed/Approved Loss Factor	**1.0369**

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 29.00	1	$ 29.00	$ 29.26	1	$ 29.26	$ 0.26	0.90%
Distribution Volumetric Rate	$ 0.0185	2000	$ 37.00	$ 0.0187	2000	$ 37.40	$ 0.40	1.08%
Fixed Rate Riders	$ 0.52	1	$ 0.52	$ 0.29	1	$ 0.29	$ (0.23)	-44.23%
Volumetric Rate Riders	$ 0.0010	2000	$ 2.00	$ 0.0017	2000	$ 3.40	$ 1.40	70.00%
Sub-Total A (excluding pass through)			$ 68.52			$ 70.35	**$ 1.83**	**2.67%**
Line Losses on Cost of Power	$ 0.0820	74	$ 6.05	$ 0.0820	74	$ 6.05	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0026	2,000	$ (5.20)	-$ 0.0037	2,000	$ (7.40)	$ (2.20)	42.31%
GA Rate Riders								
Low Voltage Service Charge	$ 0.0004	2,000	$ 0.80	$ 0.0004	2,000	$ 0.80	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.78	1	$ 0.78	$ 0.57	1	$ 0.57	$ (0.21)	-26.92%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 70.95**			**$ 70.37**	**$ (0.58)**	**-0.82%**
RTSR - Network	$ 0.0067	2,074	$ 13.89	$ 0.0065	2,074	$ 13.48	$ (0.41)	-2.99%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0035	2,074	$ 7.26	$ 0.0035	2,074	$ 7.26	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 92.10**			**$ 91.11**	**$ (0.99)**	**-1.08%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	2,074	$ 7.47	$ 0.0036	2,074	$ 7.47	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	2,074	$ 0.62	$ 0.0003	2,074	$ 0.62	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	2,000	$ 14.00	$ -	2,000	$ -	$ (14.00)	-100.00%
							$ -	
TOU - Off Peak	$ 0.0650	1,300	$ 84.50	$ 0.0650	1,300	$ 84.50	$ -	0.00%
TOU - Mid Peak	$ 0.0940	340	$ 31.96	$ 0.0940	340	$ 31.96	$ -	0.00%
TOU - On Peak	$ 0.1320	360	$ 47.52	$ 0.1320	360	$ 47.52	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1038	2,000	$ 207.60	$ 0.1038	2,000	$ 207.60	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1038	2,000	$ 207.60	$ 0.1038	2,000	$ 207.60	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 278.42**			**$ 263.43**	**$ (14.99)**	**-5.39%**
HST	13%		$ 36.19	13%		$ 34.25	$ (1.95)	-5.39%
Total Bill on TOU (before 8% Provincial Rebate)			$ 314.62			$ 297.67	$ (16.94)	-5.39%
8% Provincial Rebate	-8%		$ (22.27)	-8%		$ (21.07)	$ 1.20	-5.39%
Total Bill on TOU			**$ 292.34**			**$ 276.60**	**$ (15.74)**	**-5.39%**
Total Bill on Non-RPP Avg. Price			**$ 322.04**			**$ 307.05**	**$ (14.99)**	**-4.66%**
HST	13%		$ 41.87	13%		$ 39.92	$ (1.95)	-4.66%
Provincial Rebate	-8%		$ (25.76)	-8%		$ (24.56)	$ 1.20	-4.66%
Total Bill on Non-RPP Avg. Price			**$ 338.14**			**$ 322.40**	**$ (15.74)**	**-4.66%**
Total Bill on Average IESO Wholesale Market Price			**$ 322.04**			**$ 307.05**	**$ (14.99)**	**-4.66%**
HST	13%		$ 41.87	13%		$ 39.92	$ (1.95)	-4.66%
Provincial Rebate	-8%		$ (25.76)	-8%		$ (24.56)	$ 1.20	-4.66%
Total Bill on Average IESO Wholesale Market Price			**$ 338.14**			**$ 322.40**	**$ (15.74)**	**-4.66%**

Customer Class:	GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	
RPP / Non-RPP:	Non-RPP (Other)	Class B - non-Interval Metered
Consumption	80,000	kWh
Demand	250	kW
Current Loss Factor	1.0369	
Proposed/Approved Loss Factor	1.0369	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 142.24	1	$ 142.24	$ 143.52	1	$ 143.52	$ 1.28	0.90%
Distribution Volumetric Rate	$ 4.2415	250	$ 1,060.38	$ 4.2797	250	$ 1,069.92	$ 9.54	0.90%
Fixed Rate Riders	$ 4.78	1	$ 4.78	$ 1.41	1	$ 1.41	$ (3.37)	-70.50%
Volumetric Rate Riders	$ 0.0964	250	$ 24.10	$ 0.2099	250	$ 52.48	$ 28.38	117.74%
Sub-Total A (excluding pass through)			$ 1,231.50			$ 1,267.32	**$ 35.83**	**2.91%**
Line Losses on Cost of Power	$ -	-	$ -	$ -	-	$ -	$ -	
Total Deferral/Variance Account Rate Riders	$ 1.3590	250	$ 339.75	-$ 1.3730	250	$ (343.25)	$ (683.00)	-201.03%
GA Rate Riders	$ 0.0004	80,000	$ 32.00	$ 0.0022	80,000	$ 176.00	$ 144.00	450.00%
Low Voltage Service Charge	$ 0.1589	250	$ 39.73	$ 0.1589	250	$ 39.73	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 1,642.97**			**$ 1,139.80**	**$ (503.17)**	**-30.63%**
RTSR - Network	$ 2.6739	250	$ 668.48	$ 2.6130	250	$ 653.25	$ (15.23)	-2.28%
RTSR - Connection and/or Line and Transformation Connection	$ 1.3420	250	$ 335.50	$ 1.3338	250	$ 333.45	$ (2.05)	-0.61%
Sub-Total C - Delivery (including Sub-Total B)			**$ 2,646.95**			**$ 2,126.50**	**$ (520.45)**	**-19.66%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	82,952	$ 298.63	$ 0.0036	82,952	$ 298.63	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	82,952	$ 24.89	$ 0.0003	82,952	$ 24.89	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	80,000	$ 560.00	$ -	80,000	$ -	$ (560.00)	-100.00%
							$ -	
TOU - Off Peak	$ 0.0650	53,919	$ 3,504.72	$ 0.0650	53,919	$ 3,504.72	$ -	0.00%
TOU - Mid Peak	$ 0.0940	14,102	$ 1,325.57	$ 0.0940	14,102	$ 1,325.57	$ -	0.00%
TOU - On Peak	$ 0.1320	14,931	$ 1,970.94	$ 0.1320	14,931	$ 1,970.94	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1038	82,952	$ 8,610.42	$ 0.1038	82,952	$ 8,610.42	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1038	82,952	$ 8,610.42	$ 0.1038	82,952	$ 8,610.42	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 10,331.94**			**$ 9,251.50**	**$ (1,080.45)**	**-10.46%**
HST	13%		$ 1,343.15	13%		$ 1,202.69	$ (140.46)	-10.46%
8% Provincial Rebate	-8%		$ (826.56)	-8%		$ (740.12)	$ 86.44	-10.46%
Total Bill on TOU			**$ 10,848.54**			**$ 9,714.07**	**$ (1,134.47)**	**-10.46%**
Total Bill on Non-RPP Avg. Price			**$ 12,141.13**			**$ 11,060.68**	**$ (1,080.45)**	**-8.90%**
HST	13%		$ 1,578.35	13%		$ 1,437.89	$ (140.46)	-8.90%
8% Provincial Rebate	-8%		$ (971.29)	-8%		$ (884.85)	$ 86.44	-8.90%
Total Bill on Non-RPP Avg. Price			**$ 12,748.18**			**$ 11,613.71**	**$ (1,134.47)**	**-8.90%**
Total Bill on Average IESO Wholesale Market Price			**$ 12,141.13**			**$ 11,060.68**	**$ (1,080.45)**	**-8.90%**
HST	13%		$ 1,578.35	13%		$ 1,437.89	$ (140.46)	-8.90%
Total Bill on Average IESO WMP (before 8% Provincial Rebate)			$ 13,719.47			$ 12,498.57	$ (1,220.90)	-8.90%
8% Provincial Rebate	0%		$ -	0%		$ -	$ -	
Total Bill on Average IESO Wholesale Market Price			**$ 13,719.47**			**$ 12,498.57**	**$ (1,220.90)**	**-8.90%**

Customer Class:	LARGE USE SERVICE CLASSIFICATION
RPP / Non-RPP:	Non-RPP (Other) — Class A
Consumption	2,800,000 kWh
Demand	7,350 kW
Current Loss Factor	1.0145
Proposed/Approved Loss Factor	1.0145

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 6,128.34	1	$ 6,128.34	$ 6,183.50	1	$ 6,183.50	$ 55.16	0.90%
Distribution Volumetric Rate	$ 2.2623	7350	$ 16,627.91	$ 2.2827	7350	$ 16,777.56	$ 149.65	0.90%
Fixed Rate Riders	$ 121.36	1	$ 121.36	$ 60.33	1	$ 60.33	$ (61.03)	-50.29%
Volumetric Rate Riders	-$ 0.0633	7350	$ (465.26)	-$ 0.1205	7350	$ (885.68)	$ (420.42)	90.36%
Sub-Total A (excluding pass through)			$ 22,412.35			$ 22,135.71	**$ (276.64)**	**-1.23%**
Line Losses on Cost of Power	$ -	-	$ -	$ -	-	$ -	$ -	
Total Deferral/Variance Account Rate Riders	-$ 1.2470	7,350	$ (9,165.45)	-$ 1.9044	7,350	$ (13,997.34)	$ (4,831.89)	52.72%
GA Rate Riders				$ -	2,800,000	$ -	$ -	
Low Voltage Service Charge	$ 0.1630	7,350	$ 1,198.05	$ 0.1630	7,350	$ 1,198.05	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 14,444.95**			**$ 9,336.42**	**$ (5,108.53)**	**-35.37%**
RTSR - Network	$ 3.2305	7,350	$ 23,744.18	$ 3.1569	7,350	$ 23,203.22	$ (540.96)	-2.28%
RTSR - Connection and/or Line and Transformation Connection	$ 1.4016	7,350	$ 10,301.76	$ 1.3931	7,350	$ 10,239.29	$ (62.48)	-0.61%
Sub-Total C - Delivery (including Sub-Total B)			**$ 48,490.89**			**$ 42,778.92**	**$ (5,711.96)**	**-11.78%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	2,840,600	$ 10,226.16	$ 0.0036	2,840,600	$ 10,226.16	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	2,840,600	$ 852.18	$ 0.0003	2,840,600	$ 852.18	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	2,800,000	$ 19,600.00	$ -	2,800,000	$ -	$ (19,600.00)	-100.00%
							$ -	
TOU - Off Peak	$ 0.0650	1,846,390	$ 120,015.35	$ 0.0650	1,846,390	$ 120,015.35	$ -	0.00%
TOU - Mid Peak	$ 0.0940	482,902	$ 45,392.79	$ 0.0940	482,902	$ 45,392.79	$ -	0.00%
TOU - On Peak	$ 0.1320	511,308	$ 67,492.66	$ 0.1320	511,308	$ 67,492.66	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1038	2,840,600	$ 294,854.28	$ 0.1038	2,840,600	$ 294,854.28	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1038	2,840,600	$ 294,854.28	$ 0.1038	2,840,600	$ 294,854.28	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 312,070.27**			**$ 286,758.31**	**$ (25,311.96)**	**-8.11%**
HST	13%		$ 40,569.13	13%		$ 37,278.58	$ (3,290.56)	-8.11%
8% Provincial Rebate	-8%		$ (24,965.62)	-8%		$ (22,940.66)	$ 2,024.96	-8.11%
Total Bill on TOU			**$ 327,673.78**			**$ 301,096.22**	**$ (26,577.56)**	**-8.11%**
Total Bill on Non-RPP Avg. Price			**$ 374,023.76**			**$ 348,711.79**	**$ (25,311.96)**	**-6.77%**
HST	13%		$ 48,623.09	13%		$ 45,332.53	$ (3,290.56)	-6.77%
8% Provincial Rebate	-8%		$ (29,921.90)	-8%		$ (27,896.94)	$ 2,024.96	-6.77%
Total Bill on Non-RPP Avg. Price			**$ 392,724.94**			**$ 366,147.38**	**$ (26,577.56)**	**-6.77%**
Total Bill on Average IESO Wholesale Market Price			**$ 374,023.76**			**$ 348,711.79**	**$ (25,311.96)**	**-6.77%**
HST	13%		$ 48,623.09	13%		$ 45,332.53	$ (3,290.56)	-6.77%
Total Bill on Average IESO WMP (before 8% Provincial Rebate)			$ 422,646.84			$ 394,044.32	$ (28,602.52)	-6.77%
8% Provincial Rebate	0%		$ -	0%		$ -	$ -	
Total Bill on Average IESO Wholesale Market Price			**$ 422,646.84**			**$ 394,044.32**	**$ (28,602.52)**	**-6.77%**

Customer Class:	UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION
RPP / Non-RPP:	RPP — Class B
Consumption	150 kWh
Demand	- kW
Current Loss Factor	1.0369
Proposed/Approved Loss Factor	1.0369

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 8.68	1	$ 8.68	$ 8.76	1	$ 8.76	$ 0.08	0.92%
Distribution Volumetric Rate	$ 0.0197	150	$ 2.96	$ 0.0199	150	$ 2.98	$ 0.03	0.90%
Fixed Rate Riders	$ 0.11	1	$ 0.11	$ 0.08	1	$ 0.08	$ (0.03)	-27.27%
Volumetric Rate Riders	-$ 0.0004	150	$ (0.06)	-$ 0.0006	150	$ (0.09)	$ (0.03)	50.00%
Sub-Total A (excluding pass through)			$ 11.69			$ 11.73	**$ 0.05**	**0.40%**
Line Losses on Cost of Power	$ 0.0820	6	$ 0.45	$ 0.0820	6	$ 0.45	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0025	150	$ (0.38)	-$ 0.0036	150	$ (0.54)	$ (0.17)	44.00%
GA Rate Riders	$ -	150	$ -	$ -	150	$ -	$ -	
Low Voltage Service Charge	$ 0.0005	150	$ 0.08	$ 0.0005	150	$ 0.08	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders		1	$ -		1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 11.84**			**$ 11.72**	**$ (0.12)**	**-1.00%**
RTSR - Network	$ 0.0063	156	$ 0.98	$ 0.0062	156	$ 0.96	$ (0.02)	-1.59%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0037	156	$ 0.58	$ 0.0037	156	$ 0.58	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 13.39**			**$ 13.26**	**$ (0.13)**	**-1.00%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	156	$ 0.56	$ 0.0036	156	$ 0.56	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	156	$ 0.05	$ 0.0003	156	$ 0.05	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	150	$ 1.05	$ -	150	$ -	$ (1.05)	-100.00%
							$ -	
TOU - Off Peak	$ 0.0650	98	$ 6.34	$ 0.0650	98	$ 6.34	$ -	0.00%
TOU - Mid Peak	$ 0.0940	26	$ 2.40	$ 0.0940	26	$ 2.40	$ -	0.00%
TOU - On Peak	$ 0.1320	27	$ 3.56	$ 0.1320	27	$ 3.56	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1038	150	$ 15.57	$ 0.1038	150	$ 15.57	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1038	150	$ 15.57	$ 0.1038	150	$ 15.57	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 27.60**			**$ 26.42**	**$ (1.18)**	**-4.29%**
HST	13%		$ 3.59	13%		$ 3.43	$ (0.15)	-4.29%
Total Bill on TOU (before 8% Provincial Rebate)			$ 31.19			$ 29.85	$ (1.34)	-4.29%
8% Provincial Rebate	0%		$ -	0%		$ -	$ -	
Total Bill on TOU			**$ 31.19**			**$ 29.85**	**$ (1.34)**	**-4.29%**
Total Bill on Non-RPP Avg. Price			**$ 30.87**			**$ 29.69**	**$ (1.18)**	**-3.84%**
HST	13%		$ 4.01	13%		$ 3.86	$ (0.15)	-3.84%
Provincial Rebate	-8%		$ (2.47)	-8%		$ (2.37)	$ 0.09	-3.84%
Total Bill on Non-RPP Avg. Price			**$ 32.41**			**$ 31.17**	**$ (1.24)**	**-3.84%**
Total Bill on Average IESO Wholesale Market Price			**$ 30.87**			**$ 29.69**	**$ (1.18)**	**-3.84%**
HST	13%		$ 4.01	13%		$ 3.86	$ (0.15)	-3.84%
Provincial Rebate	-8%		$ (2.47)	-8%		$ (2.37)	$ 0.09	-3.84%
Total Bill on Average IESO Wholesale Market Price			**$ 32.41**			**$ 31.17**	**$ (1.24)**	**-3.84%**

NOTE: Board model does not populate customer count for MFC and FRR for USL, Sentinel and S/L classes. It requires manual input on Bill Impact sheet every time the bill impacts are executed.

Customer Class:	SENTINEL LIGHTING SERVICE CLASSIFICATION
RPP / Non-RPP:	RPP
Consumption	180 kWh
Demand	1 kW
Current Loss Factor	1.0369
Proposed/Approved Loss Factor	1.0369

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 4.23	1	$ 4.23	$ 4.27	1	$ 4.27	$ 0.04	0.95%
Distribution Volumetric Rate	$ 9.9582	1	$ 9.96	$ 10.0478	1	$ 10.05	$ 0.09	0.90%
Fixed Rate Riders	$ 0.10	1	$ 0.10	$ 0.08	1	$ 0.08	$ (0.02)	-20.08%
Volumetric Rate Riders	-$ 0.3850	1	$ (0.39)	-$ 0.5441	1	$ (0.54)	$ (0.16)	41.32%
Sub-Total A (excluding pass through)			$ 13.90			$ 13.85	**$ (0.05)**	**-0.36%**
Line Losses on Cost of Power	$ 0.0820	7	$ 0.54	$ 0.0820	7	$ 0.54	$ -	0.00%
Total Deferral/Variance Account Rate Riders	$ 1.4716	1	$ 1.47	-$ 1.3272	1	$ (1.33)	$ (2.80)	-190.19%
GA Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Low Voltage Service Charge	$ 0.1170	1	$ 0.12	$ 0.1170	1	$ 0.12	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 16.04**			**$ 13.19**	**$ (2.85)**	**-17.76%**
RTSR - Network	$ 2.0778	1	$ 2.08	$ 2.0304	1	$ 2.03	$ (0.05)	-2.28%
RTSR - Connection and/or Line and Transformation Connection	$ 0.9929	1	$ 0.99	$ 0.9869	1	$ 0.99	$ (0.01)	-0.60%
Sub-Total C - Delivery (including Sub-Total B)			**$ 19.11**			**$ 16.21**	**$ (2.90)**	**-15.19%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	187	$ 0.67	$ 0.0036	187	$ 0.67	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	187	$ 0.06	$ 0.0003	187	$ 0.06	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	180	$ 1.26	$ -	180	$ -	$ (1.26)	-100.00%
							$ -	
TOU - Off Peak	$ 0.0650	117	$ 7.61	$ 0.0650	117	$ 7.61	$ -	0.00%
TOU - Mid Peak	$ 0.0940	31	$ 2.88	$ 0.0940	31	$ 2.88	$ -	0.00%
TOU - On Peak	$ 0.1320	32	$ 4.28	$ 0.1320	32	$ 4.28	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1038	180	$ 18.68	$ 0.1038	180	$ 18.68	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1038	180	$ 18.68	$ 0.1038	180	$ 18.68	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 36.10**			**$ 31.94**	**$ (4.16)**	**-11.53%**
HST	13%		$ 4.69	13%		$ 4.15	$ (0.54)	-11.53%
Total Bill on TOU (before 8% Provincial Rebate)			$ 40.80			$ 36.09	$ (4.70)	-11.53%
8% Provincial Rebate	0%		$ -	0%		$ -	$ -	
Total Bill on TOU			**$ 40.80**			**$ 36.09**	**$ (4.70)**	**-11.53%**
Total Bill on Non-RPP Avg. Price			**$ 40.03**			**$ 35.87**	**$ (4.16)**	**-10.40%**
HST	13%		$ 5.20	13%		$ 4.66	$ (0.54)	-10.40%
Provincial Rebate	-8%		$ (3.20)	-8%		$ (2.87)	$ 0.33	-10.40%
Total Bill on Non-RPP Avg. Price			**$ 42.03**			**$ 37.66**	**$ (4.37)**	**-10.40%**
Total Bill on Average IESO Wholesale Market Price			**$ 40.03**			**$ 35.87**	**$ (4.16)**	**-10.40%**
HST	13%		$ 5.20	13%		$ 4.66	$ (0.54)	-10.40%
Provincial Rebate	-8%		$ (3.20)	-8%		$ (2.87)	$ 0.33	-10.40%
Total Bill on Average IESO Wholesale Market Price			**$ 42.03**			**$ 37.66**	**$ (4.37)**	**-10.40%**

Customer Class:	STREET LIGHTING SERVICE CLASSIFICATION	
RPP / Non-RPP:	Non-RPP (Other)	Class B
Consumption	280	kWh
Demand	1	kW
Current Loss Factor	1.0369	
Proposed/Approved Loss Factor	1.0369	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 1.20	1	$ 1.20	$ 1.21	1	$ 1.21	$ 0.01	0.83%
Distribution Volumetric Rate	$ 6.3791	1	$ 6.38	$ 6.4365	1	$ 6.44	$ 0.06	0.90%
Fixed Rate Riders	$ 0.01	1	$ 0.01	$ 0.01	1	$ 0.01	$ -	0.00%
Volumetric Rate Riders	$ 0.6107	1	$ 0.61	$ 1.9094	1	$ 1.91	$ 1.30	212.66%
Sub-Total A (excluding pass through)			$ 8.20			$ 9.57	**$ 1.37**	**16.66%**
Line Losses on Cost of Power	$ 0.1038	10	$ 1.07	$ 0.1038	10	$ 1.07	$ -	0.00%
Total Deferral/Variance Account Rate Riders	$ 1.3018	1	$ 1.30	-$ 1.2881	1	$ (1.29)	$ (2.59)	-198.95%
GA Rate Riders	$ 0.0004	280	$ 0.11	$ 0.0022	280	$ 0.62	$ 0.50	450.00%
Low Voltage Service Charge	$ 0.1288	1	$ 0.13	$ 0.1288	1	$ 0.13	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 10.81**			**$ 10.10**	**$ (0.72)**	**-6.66%**
RTSR - Network	$ 2.6888	1	$ 2.69	$ 2.6275	1	$ 2.63	$ (0.06)	-2.28%
RTSR - Connection and/or Line and Transformation Connection	$ 1.4379	1	$ 1.44	$ 1.4291	1	$ 1.43	$ (0.01)	-0.61%
Sub-Total C - Delivery (including Sub-Total B)			**$ 14.94**			**$ 14.15**	**$ (0.79)**	**-5.29%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	290	$ 1.05	$ 0.0036	290	$ 1.05	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	290	$ 0.09	$ 0.0003	290	$ 0.09	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	280	$ 1.96	$ -	280	$ -	$ (1.96)	-100.00%
							$ -	
TOU - Off Peak	$ 0.0650	182	$ 11.83	$ 0.0650	182	$ 11.83	$ -	0.00%
TOU - Mid Peak	$ 0.0940	48	$ 4.47	$ 0.0940	48	$ 4.47	$ -	0.00%
TOU - On Peak	$ 0.1320	50	$ 6.65	$ 0.1320	50	$ 6.65	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1038	280	$ 29.06	$ 0.1038	280	$ 29.06	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1038	280	$ 29.06	$ 0.1038	280	$ 29.06	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 41.24**			**$ 38.49**	**$ (2.75)**	**-6.67%**
HST	13%		$ 5.36	13%		$ 5.00	$ (0.36)	-6.67%
Provincial Rebate	-8%		$ (3.30)	-8%		$ (3.08)	$ 0.22	-6.67%
Total Bill on TOU			**$ 43.30**			**$ 40.42**	**$ (2.89)**	**-6.67%**
Total Bill on Non-RPP Avg. Price			**$ 47.35**			**$ 44.60**	**$ (2.75)**	**-5.81%**
HST	13%		$ 6.16	13%		$ 5.80	$ (0.36)	-5.81%
Provincial Rebate	-8%		$ (3.79)	-8%		$ (3.57)	$ 0.22	-5.81%
Total Bill on Non-RPP Avg. Price			**$ 49.72**			**$ 46.83**	**$ (2.89)**	**-5.81%**
Total Bill on Average IESO Wholesale Market Price			**$ 47.35**			**$ 44.60**	**$ (2.75)**	**-5.81%**
HST	13%		$ 6.16	13%		$ 5.80	$ (0.36)	-5.81%
Total Bill on Average IESO WMP (before 8% Provincial Rebate)			$ 53.50			$ 50.40	$ (3.11)	-5.81%
8% Provincial Rebate	0%		$ -	0%		$ -	$ -	
Total Bill on Average IESO Wholesale Market Price			**$ 53.50**			**$ 50.40**	**$ (3.11)**	**-5.81%**

Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION
RPP / Non-RPP:	RPP — 10th Percentile
Consumption	309 kWh
Demand	- kW
Current Loss Factor	1.0369
Proposed/Approved Loss Factor	1.0369

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 21.63	1	$ 21.63	$ 24.83	1	$ 24.83	$ 3.20	14.79%
Distribution Volumetric Rate	$ 0.0088	308.871	$ 2.72	$ 0.0044	308.871	$ 1.36	$ (1.36)	-50.00%
Fixed Rate Riders	$ 0.25	1	$ 0.25	$ 0.27	1	$ 0.27	$ 0.02	8.00%
Volumetric Rate Riders	$ -	308.871	$ -	$ 0.0003	308.871	$ 0.09	$ 0.09	
Sub-Total A (excluding pass through)			$ 24.60			$ 26.55	**$ 1.95**	**7.94%**
Line Losses on Cost of Power	$ 0.0820	11	$ 0.93	$ 0.0820	11	$ 0.93	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0028	309	$ (0.86)	-$ 0.0038	309	$ (1.17)	$ (0.31)	35.71%
GA Rate Riders	$ -	309	$ -	$ -	309	$ -	$ -	
Low Voltage Service Charge	$ 0.0005	309	$ 0.15	$ 0.0005	309	$ 0.15	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.75	1	$ 0.75	$ 0.57	1	$ 0.57	$ (0.18)	-24.00%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 25.57**			**$ 27.04**	**$ 1.46**	**5.73%**
RTSR - Network	$ 0.0075	320	$ 2.40	$ 0.0073	320	$ 2.34	$ (0.06)	-2.67%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0040	320	$ 1.28	$ 0.0040	320	$ 1.28	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 29.26**			**$ 30.66**	**$ 1.40**	**4.79%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	320	$ 1.15	$ 0.0036	320	$ 1.15	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	320	$ 0.10	$ 0.0003	320	$ 0.10	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)								
							$ -	
TOU - Off Peak	$ 0.0650	201	$ 13.05	$ 0.0650	201	$ 13.05	$ -	0.00%
TOU - Mid Peak	$ 0.0940	53	$ 4.94	$ 0.0940	53	$ 4.94	$ -	0.00%
TOU - On Peak	$ 0.1320	56	$ 7.34	$ 0.1320	56	$ 7.34	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1038	309	$ 32.06	$ 0.1038	309	$ 32.06	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1038	309	$ 32.06	$ 0.1038	309	$ 32.06	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 56.08**			**$ 57.48**	**$ 1.40**	**2.50%**
HST	13%		$ 7.29	13%		$ 7.47	$ 0.18	2.50%
Total Bill on TOU (before 8% Provincial Rebate)			**$ 63.37**			**$ 64.95**	**$ 1.58**	**2.50%**
8% Provincial Rebate	-8%		$ (4.49)	-8%		$ (4.60)	$ (0.11)	2.50%
Total Bill on TOU			**$ 58.88**			**$ 60.35**	**$ 1.47**	**2.50%**
Total Bill on Non-RPP Avg. Price			**$ 62.82**			**$ 64.22**	**$ 1.40**	**2.23%**
HST	13%		$ 8.17	13%		$ 8.35	$ 0.18	2.23%
Provincial Rebate	-8%		$ (5.03)	-8%		$ (5.14)	$ (0.11)	2.23%
Total Bill on Non-RPP Avg. Price			**$ 65.96**			**$ 67.43**	**$ 1.47**	**2.23%**
Total Bill on Average IESO Wholesale Market Price			**$ 62.82**			**$ 64.22**	**$ 1.40**	**2.23%**
HST	13%		$ 8.17	13%		$ 8.35	$ 0.18	2.23%
Provincial Rebate	-8%		$ (5.03)	-8%		$ (5.14)	$ (0.11)	2.23%
Total Bill on Average IESO Wholesale Market Price			**$ 65.96**			**$ 67.43**	**$ 1.47**	**2.23%**

Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION
RPP / Non-RPP:	**Non-RPP (Retailer)**
Consumption	**750** kWh
Demand	**-** kW
Current Loss Factor	**1.0369**
Proposed/Approved Loss Factor	**1.0369**

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 21.63	1	$ 21.63	$ 24.83	1	$ 24.83	$ 3.20	14.79%
Distribution Volumetric Rate	$ 0.0088	750	$ 6.60	$ 0.0044	750	$ 3.30	$ (3.30)	-50.00%
Fixed Rate Riders	$ 0.25	1	$ 0.25	$ 0.27	1	$ 0.27	$ 0.02	8.00%
Volumetric Rate Riders	$ -	750	$ -	$ 0.0003	750	$ 0.23	$ 0.23	
Sub-Total A (excluding pass through)			$ 28.48			$ 28.63	**$ 0.15**	**0.51%**
Line Losses on Cost of Power	$ 0.1038	28	$ 2.87	$ 0.1038	28	$ 2.87	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0028	750	$ (2.10)	-$ 0.0038	750	$ (2.85)	$ (0.75)	35.71%
GA Rate Riders	$ 0.0066	750	$ 4.95	$ 0.0022	750	$ 1.65	$ (3.30)	-66.67%
Low Voltage Service Charge	$ 0.0005	750	$ 0.38	$ 0.0005	750	$ 0.38	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.75	1	$ 0.75	$ 0.57	1	$ 0.57	$ (0.18)	-24.00%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 35.33**			**$ 31.24**	**$ (4.09)**	**-11.56%**
RTSR - Network	$ 0.0075	778	$ 5.83	$ 0.0073	778	$ 5.68	$ (0.16)	-2.67%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0040	778	$ 3.11	$ 0.0040	778	$ 3.11	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 44.27**			**$ 40.03**	**$ (4.24)**	**-9.58%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	778	$ 2.80	$ 0.0036	778	$ 2.80	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	778	$ 0.23	$ 0.0003	778	$ 0.23	$ -	0.00%
Standard Supply Service Charge								
Debt Retirement Charge (DRC)								
							$ -	
TOU - Off Peak	$ 0.0650	488	$ 31.69	$ 0.0650	488	$ 31.69	$ -	0.00%
TOU - Mid Peak	$ 0.0940	128	$ 11.99	$ 0.0940	128	$ 11.99	$ -	0.00%
TOU - On Peak	$ 0.1320	135	$ 17.82	$ 0.1320	135	$ 17.82	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1038	750	$ 77.85	$ 0.1038	750	$ 77.85	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1038	750	$ 77.85	$ 0.1038	750	$ 77.85	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 108.80**			**$ 104.56**	**$ (4.24)**	**-3.90%**
HST	13%		$ 14.14	13%		$ 13.59	$ (0.55)	-3.90%
Provincial Rebate	-8%		$ (8.70)	-8%		$ (8.36)	$ 0.34	-3.90%
Total Bill on TOU			**$ 114.24**			**$ 109.78**	**$ (4.45)**	**-3.90%**
Total Bill on Non-RPP Avg. Price			**$ 125.15**			**$ 120.91**	**$ (4.24)**	**-3.39%**
HST	13%		$ 16.27	13%		$ 15.72	$ (0.55)	-3.39%
Total Bill on Non-RPP Avg. Price (before 8% Provincial Rebate)			**$ 141.42**			**$ 136.63**	**$ (4.79)**	**-3.39%**
8% Provincial Rebate	-8%		$ (10.01)	-8%		$ (9.67)	$ 0.34	-3.39%
Total Bill on Non-RPP Avg. Price			**$ 131.41**			**$ 126.96**	**$ (4.45)**	**-3.39%**
Total Bill on Average IESO Wholesale Market Price			**$ 125.15**			**$ 120.91**	**$ (4.24)**	**-3.39%**
HST	13%		$ 16.27	13%		$ 15.72	$ (0.55)	-3.39%
Provincial Rebate	-8%		$ (10.01)	-8%		$ (9.67)	$ 0.34	-3.39%
Total Bill on Average IESO Wholesale Market Price			**$ 131.41**			**$ 126.96**	**$ (4.45)**	**-3.39%**

Customer Class:	GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	
RPP / Non-RPP:	Non-RPP (Retailer)	
Consumption	2,000	kWh
Demand	-	kW
Current Loss Factor	1.0369	
Proposed/Approved Loss Factor	1.0369	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	**Volume**	**Charge ($)**	**Rate ($)**	**Volume**	**Charge ($)**	**$ Change**	**% Change**
Monthly Service Charge	$ 29.00	1	$ 29.00	$ 29.26	1	$ 29.26	$ 0.26	0.90%
Distribution Volumetric Rate	$ 0.0185	2000	$ 37.00	$ 0.0187	2000	$ 37.40	$ 0.40	1.08%
Fixed Rate Riders	$ 0.52	1	$ 0.52	$ 0.29	1	$ 0.29	$ (0.23)	-44.23%
Volumetric Rate Riders	$ 0.0010	2000	$ 2.00	$ 0.0017	2000	$ 3.40	$ 1.40	70.00%
Sub-Total A (excluding pass through)			$ 68.52			$ 70.35	**$ 1.83**	**2.67%**
Line Losses on Cost of Power	$ 0.1038	74	$ 7.66	$ 0.1038	74	$ 7.66	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0026	2,000	$ (5.20)	-$ 0.0037	2,000	$ (7.40)	$ (2.20)	42.31%
GA Rate Riders	$ 0.0066	2,000	$ 13.20	$ 0.0022	2,000	$ 4.40	$ (8.80)	-66.67%
Low Voltage Service Charge	$ 0.0004	2,000	$ 0.80	$ 0.0004	2,000	$ 0.80	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.78	1	$ 0.78	$ 0.57	1	$ 0.57	$ (0.21)	-26.92%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 85.76**			**$ 76.38**	**$ (9.38)**	**-10.94%**
RTSR - Network	$ 0.0067	2,074	$ 13.89	$ 0.0065	2,074	$ 13.48	$ (0.41)	-2.99%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0035	2,074	$ 7.26	$ 0.0035	2,074	$ 7.26	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 106.91**			**$ 97.12**	**$ (9.79)**	**-9.16%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	2,074	$ 7.47	$ 0.0036	2,074	$ 7.47	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	2,074	$ 0.62	$ 0.0003	2,074	$ 0.62	$ -	0.00%
Standard Supply Service Charge								
Debt Retirement Charge (DRC)	$ 0.0070	2,000	$ 14.00	$ -	2,000	$ -	$ (14.00)	-100.00%
							$ -	
TOU - Off Peak	$ 0.0650	1,300	$ 84.50	$ 0.0650	1,300	$ 84.50	$ -	0.00%
TOU - Mid Peak	$ 0.0940	340	$ 31.96	$ 0.0940	340	$ 31.96	$ -	0.00%
TOU - On Peak	$ 0.1320	360	$ 47.52	$ 0.1320	360	$ 47.52	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1038	2,000	$ 207.60	$ 0.1038	2,000	$ 207.60	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1038	2,000	$ 207.60	$ 0.1038	2,000	$ 207.60	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 292.98**			**$ 269.19**	**$ (23.79)**	**-8.12%**
HST	13%		$ 38.09	13%		$ 34.99	$ (3.09)	-8.12%
Provincial Rebate	-8%		$ (23.44)	-8%		$ (21.53)	$ 1.90	-8.12%
Total Bill on TOU			**$ 307.63**			**$ 282.65**	**$ (24.98)**	**-8.12%**
Total Bill on Non-RPP Avg. Price			**$ 336.60**			**$ 312.81**	**$ (23.79)**	**-7.07%**
HST	13%		$ 43.76	13%		$ 40.66	$ (3.09)	-7.07%
Total Bill on Non-RPP Avg. Price (before 8% Provincial Rebate)			**$ 380.36**			**$ 353.47**	**$ (26.89)**	**-7.07%**
8% Provincial Rebate	-8%		$ (26.93)	-8%		$ (25.02)	$ 1.90	-7.07%
Total Bill on Non-RPP Avg. Price			**$ 353.43**			**$ 328.45**	**$ (24.98)**	**-7.07%**
Total Bill on Average IESO Wholesale Market Price			**$ 336.60**			**$ 312.81**	**$ (23.79)**	**-7.07%**
HST	13%		$ 43.76	13%		$ 40.66	$ (3.09)	-7.07%
Provincial Rebate	-8%		$ (26.93)	-8%		$ (25.02)	$ 1.90	-7.07%
Total Bill on Average IESO Wholesale Market Price			**$ 353.43**			**$ 328.45**	**$ (24.98)**	**-7.07%**

ATTACHMENT 25
IRM MODEL
POWERSTREAM RZ

INCENTIVE REGULATION MODEL FOR 2019 FILERS

Version 1.0

Utility Name	Alectra - PowerStream
Assigned EB Number	EB-2018-0016
Name of Contact and Title	Indy J. Butany-DeSouza, Vice-President, Regulatory Affairs
Phone Number	905-821-5727
Email Address	indy.butany@alectrautilities.com
We are applying for rates effective	January-01-19
Rate-Setting Method	**Price Cap IR**
Please indicate in which Rate Year the Group 1 accounts were last cleared[1]	**2018**
Please indicate the last Cost of Service Re-Basing Year	**2017**

Notes

Pale gray cells represent input cells.

Pale blue cells represent drop-down lists.

White cells contain fixed values, automatically generated values or formulae.

INCENTIVE REGULATION MODEL FOR 2019 FILERS

Alectra Utilities Corporation
PowerStream Rate Zone
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2018
Implementation Date May 1, 2018

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2017-0024

RESIDENTIAL SERVICE CLASSIFICATION

This classification refers to an account taking electricity at 750 volts or less where the electricity is used exclusively in a separately metered living

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	21.63
Smart Metering Entity Charge - effective until December 31, 2022	$	0.57
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$	0.12
Rate Rider for Recovery of Stranded Meter Assets (2016) – effective until September 30, 2018	$	0.06
Rate Rider for Recovery of ICM (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$	0.11
Rate Rider for Recovery of 2018 Foregone Revenue - effective until December 31, 2018	$	0.14
Distribution Volumetric Rate	$/kWh	0.0088
Low Voltage Service Rate	$/kWh	0.0005
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until September 30, 2018 Applicable only for Non-RPP Customers	$/kWh	0.0062
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019 Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kWh	0.0003
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kWh	(0.0003)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kWh	(0.0030)
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019 Applicable Only for Class B Customers	$/kWh	0.0002
Retail Transmission Rate - Network Service Rate	$/kWh	0.0075
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0040

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION

This classification refers to a non-residential account taking electricity at 750 volts or less wheose monthly average peak demand is less than, or is forecast to

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	29.00
Smart Metering Entity Charge - effective until December 31, 2022	$	0.57
Rate Rider for Recovery of Stranded Meter Assets (2016) – effective until September 30, 2018	$	0.21
Rate Rider for Recovery of ICM (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$	0.12
Rate Rider for Recovery of 2018 Foregone Revenue - effective until December 31, 2018	$	0.40
Distribution Volumetric Rate	$/kWh	0.0185
Low Voltage Service Rate	$/kWh	0.0004
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until September 30, 2018		
Applicable only for Non-RPP Customers	$/kWh	0.0062
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019		
Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kWh	0.0003
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kWh	(0.0003)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kWh	(0.0030)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kWh	0.0002
Rate Rider for Recovery of ICM (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$/kWh	0.0001
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019		
Applicable Only for Class B Customers	$/kWh	0.0002
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective until April 30, 2019	$/kWh	0.0009
Retail Transmission Rate - Network Service Rate	$/kWh	0.0067
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0035

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION

This classification refers to a non-residential account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a

The rate rider for the disposition of WMS – Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned

The rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP customers that transitioned

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	142.24
Rate Rider for Recovery of ICM (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$	0.57
Rate Rider for Recovery of 2018 Foregone Revenue - effective until December 31, 2018	$	4.21
Distribution Volumetric Rate	$/kW	4.2415
Low Voltage Service Rate	$/kW	0.1589
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018 Applicable only to non-RPP non-Interval Metered Customers	$/kW	2.3303
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018 Applicable only for Class B Interval Metered Customers at December 31, 2016	$/kW	(1.6412)
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019 Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.1169
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kW	(0.1224)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kW	0.0184
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019 Applicable only for Non-Wholesale Market Participants	$/kW	(1.1367)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.0620
Rate Rider for Recovery of ICM (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$/kW	0.0168
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective until April 30, 2019	$/kW	0.0796
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019 Applicable Only for Class B Customers	$/kW	0.0905
Retail Transmission Rate - Network Service Rate	$/kW	2.6739
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	1.3420
Retail Transmission Rate - Network Service Rate – Interval Metered	$/kW	2.8030
Retail Transmission Rate - Line and Transformation Connection Service Rate – Interval Metered	$/kW	1.4520

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

LARGE USE SERVICE CLASSIFICATION

This classification refers to an account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 5,000 kW.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a

The rate rider for the disposition of WMS – Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned

The rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP customers that transitioned

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	6,128.34
Rate Rider for Recovery of ICM (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$	24.34
Rate Rider for Recovery of 2018 Foregone Revenue - effective until December 31, 2018	$	97.02
Distribution Volumetric Rate	$/kW	2.2623
Low Voltage Service Rate	$/kW	0.1630
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.1584
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kW	(0.1659)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kW	(1.3235)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.0840
Rate Rider for Recovery of ICM (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$/kW	0.0090
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective until April 30, 2019	$/kW	(0.0723)
Retail Transmission Rate - Network Service Rate	$/kW	3.2305
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	1.4016

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that has Load Displacement Generation and requires the distributor to provide back-up service. Further servicing details

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and

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Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a

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MONTHLY RATES AND CHARGES – Delivery Component - APPROVED ON AN INTERIM BASIS

Standby Charge – for a month where standby power is not provided. The charge is applied to the contracted amount (e.g. nameplate rating of generation facility).	$/kW	2.8334

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification refers to an account taking electricity at 750 volts or less whose average monthly peak demand is less than, or is forecast to be less than, 50

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	8.68
Rate Rider for Recovery of ICM (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$	0.03
Rate Rider for Recovery of 2018 Foregone Revenue - effective until December 31, 2018	$	0.08
Distribution Volumetric Rate	$/kWh	0.0197
Low Voltage Service Rate	$/kWh	0.0005
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018		
Applicable only for non-RPP Customers	$/kWh	0.0062
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019		
Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kWh	0.0003
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kWh	(0.0003)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kWh	(0.0029)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kWh	0.0002
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019		
Applicable Only for Class B Customers	$/kWh	0.0002
Rate Rider for Recovery of ICM (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$/kWh	0.0001
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective until April 30, 2019	$/kWh	(0.0005)
Retail Transmission Rate - Network Service Rate	$/kWh	0.0063
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0037

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to an unmetered lighting load supplied to a sentinel light. Class B consumers are defined in accordance with O. Reg. 429/04. Further

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per Connection)	$	4.23
Rate Rider for Recovery of ICM (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$	0.02
Rate Rider for Recovery of 2018 Foregone Revenue - effective until December 31, 2018	$	0.04
Distribution Volumetric Rate	$/kW	9.9582
Low Voltage Service Rate	$/kW	0.1170
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018		
Applicable only for non-RPP Customers	$/kW	2.3977
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019		
Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.1210
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kW	(0.1267)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kW	(1.0740)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.0641
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019		
Applicable Only for Class B Customers	$/kW	0.0895
Rate Rider for Recovery of ICM (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$/kW	0.0396
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective until April 30, 2019	$/kW	(0.3850)
Retail Transmission Rate - Network Service Rate	$/kW	2.0778
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	0.9929

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

STREET LIGHTING SERVICE CLASSIFICATION

This classification applies to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per Connection)	$	1.20
Rate Rider for Recovery of ICM (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$	0.00
Rate Rider for Recovery of 2018 Foregone Revenue - effective until December 31, 2018	$	0.01
Distribution Volumetric Rate	$/kW	6.3791
Low Voltage Service Rate	$/kW	0.1288
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018		
Applicable Only for Non-RPP Customers	$/kW	2.2128
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019		
Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.1116
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kW	(0.1169)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kW	(1.0519)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.0592
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019		
Applicable Only for Class B Customers	$/kW	0.0870
Rate Rider for Recovery of ICM (2018) - in effect from May 1, 2018 until the effective date of the next cost of service based rate order	$/kW	0.0253
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective until April 30, 2019	$/kW	0.5854
Retail Transmission Rate - Network Service Rate	$/kW	2.6888
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kW	1.4379

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

MicroFIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's microFIT program and connected

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	5.40

ALLOWANCES

Transformer Allowance for Ownership - per kW of billing demand/month	$/kW	(0.60)
Primary Metering Allowance for Transformer Losses - applied to measured demand & energy	%	(1.00)

SPECIFIC SERVICE CHARGES

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

Customer Administration

Arrears certificate	$	15.00
Statement of account	$	15.00
Duplicate invoices for previous billing	$	15.00
Request for other billing information	$	15.00
Easement Letter	$	15.00
Income tax letter	$	15.00
Account history	$	15.00
Returned Cheque (plus bank charges)	$	15.00
Legal letter charge	$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	$	30.00
Special meter reads	$	30.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	$	30.00

Non-Payment of Account

Late Payment - per month	%	1.50
Late Payment - per annum	%	19.56
Collection of account charge - no disconnection	$	30.00
Disconnect/Reconnect at Meter - during regular hours	$	65.00
Disconnect/Reconnect at Meter - after regular hours	$	185.00

Other

Install/Remove Load Control Device - during regular hours	$	65.00
Install/Remove Load Control Device - after regular hours	$	185.00
Disconnect/Reconnect at Meter - during regular hours	$	65.00
Disconnect/Reconnect at Meter - after regular hours	$	185.00
Disconnect/Reconnect at Pole - during regular hours	$	185.00
Disconnect/Reconnect at Pole - after regular hours	$	415.00
Specific Charge for Access to the Power Poles - $/pole/year (with the exception of wireless attachments) - in effect until August 31, 2018	$	22.35
Specific Charge for Access to the Power Poles - $/pole/year (with the exception of wireless attachments) - in effect from September 1, 2018 until	$	28.09
Specific Charge for Access to the Power Poles - $/pole/year (with the exception of wireless attachments) - in effect from January 1, 2019	$	43.63
Temporary Service install and remove - overhead - no transformer	$	500.00

RETAIL SERVICE CHARGES (if applicable)

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity.

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	$	100.00
Monthly Fixed Charge, per retailer	$	20.00
Monthly Variable Charge, per customer, per retailer	$/cust.	0.50
Distributor-consolidated billing monthly charge, per customer, per retailer	$/cust.	0.30
Retailer-consolidated billing monthly credit, per customer, per retailer	$/cust.	(0.30)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	$	0.25
Processing fee, per request, applied to the requesting party	$	0.50
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail Settlement Code directly to retailers and customers, if not delivered electronically through the Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	$	no charge
More than twice a year, per request (plus incremental delivery costs)	$	2.00

LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each

Total Loss Factor - Secondary Metered Customer < 5,000 kW	1.0369
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0145
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0266
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0045

INCENTIVE REGULATION MODEL FOR 2019 FILERS

Please complete the following continuity schedule for the following Deferral/Variance Accounts. Enter information into green cells only. Column CE shoudl match the latest 2.1.7 RRR filing.

When inputting balances in the continuity schedule, Account 1580 RSVA - Wholesale Market Service Charge is to exclude any amounts relating to CBR. The CBR amounts are to be entered separately in the Class A and Class B 1580 sub-accounts. Only Class B amounts are to be disposed. Class A amounts are not to be disposed.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your general ledger for which you received approval. For example, if in the 2016 EDR process (CoS or IRM) you received approval for the December 31, 2014 balances, the starting point for your entries below should be the 2013 year. This will allow for the correct starting point for the 2014 opening balance columns for both principal and interest.

Please refer to the footnotes for further instructions.

		2011										2012						
Account Descriptions	Account Number	Opening Principal Amounts as of Jan 1, 2011	Transactions[2] Debit / (Credit) during 2011	OEB-Approved Disposition during 2011	Principal Adjustments[1] during 2011	Closing Principal Balance as of Dec 31, 2011	Opening Interest Amounts as of Jan 1, 2011	Interest Jan 1 to Dec 31, 2011	OEB-Approved Disposition during 2011	Interest Adjustments[1] during 2011	Closing Interest Amounts as of Dec 31, 2011	Opening Principal Amounts as of Jan 1, 2012	Transactions[2] Debit / (Credit) during 2012	OEB-Approved Disposition during 2012	Principal Adjustments[1] during 2012	Closing Principal Balance as of Dec 31, 2012	Opening Interest Amounts as of Jan 1, 2012	Interest Jan 1 to Dec 31, 2012
Group 1 Accounts																		
LV Variance Account	1550	0	(680,807)			(680,807)	0	(25,273)			(25,273)	(680,807)	477,919	(680,807)		477,919	(25,273)	(7,005)
Smart Metering Entity Charge Variance Account	1551	0				0	0				0	0				0	0	
RSVA - Wholesale Market Service Charge	1580	0	(22,160,709)			(22,160,709)	0	(453,592)			(453,592)	(22,160,709)	(10,646,313)	(22,160,709)		(10,646,313)	(453,592)	(411,074)
Variance WMS – Sub-account CBR Class A	1580	0				0	0				0	0				0	0	
Variance WMS – Sub-account CBR Class B	1580	0				0	0				0	0				0	0	
RSVA - Retail Transmission Network Charge	1584	0	2,673,296			2,673,296	0	(116,407)			(116,407)	2,673,296	1,005,953	2,673,296		1,005,953	(116,407)	62,777
RSVA - Retail Transmission Connection Charge	1586	0	(3,227,883)			(3,227,883)	0	(156,955)			(156,955)	(3,227,883)	(588,231)	(3,227,884)		(588,230)	(156,955)	(52,540)
RSVA - Power	1588	0	2,102,302		(13)	2,102,289	0	400,055			400,055	2,102,289	877,101	2,102,302		877,088	400,055	8,778
RSVA - Global Adjustment	1589	0	17,526,364			17,526,364	0	668,802			668,802	17,526,364	(1,664,568)	17,526,364		(1,664,568)	668,802	259,570
Disposition and Recovery/Refund of Regulatory Balances (2009)[4]	1595	0	(1,042)			(1,042)	0	3,222			3,222	(1,042)	(15)	(1,042)		(15)	3,222	
Disposition and Recovery/Refund of Regulatory Balances (2010)[4]	1595	0				0	0				0	0				0	0	
Disposition and Recovery/Refund of Regulatory Balances (2011)[4]	1595	0	2,233,467			2,233,467	0	(1,943,690)			(1,943,690)	2,233,467	(680,508)			1,552,959	(1,943,690)	144,693
Disposition and Recovery/Refund of Regulatory Balances (2012)[4]	1595	0				0	0				0	0		8,245,690		(8,245,690)	0	
Disposition and Recovery/Refund of Regulatory Balances (2013)[4]	1595	0				0	0				0	0				0	0	
Disposition and Recovery/Refund of Regulatory Balances (2014)[4]	1595	0				0	0				0	0				0	0	
Disposition and Recovery/Refund of Regulatory Balances (2015)[4]	1595	0				0	0				0	0				0	0	
Disposition and Recovery/Refund of Regulatory Balances (2016)[4] *Not to be disposed of unless rate rider has expired and balance has been audited*	1595	0				0	0				0	0				0	0	
RSVA - Global Adjustment	**1589**	0	17,526,364	0	0	17,526,364	0	668,802	0	0	668,802	17,526,364	(1,664,568)	17,526,364	0	(1,664,568)	668,802	259,570
Total Group 1 Balance excluding Account 1589 - Global Adjustment		0	(19,061,376)	0	(13)	(19,061,389)	0	(2,292,640)	0	0	(2,292,640)	(19,061,389)	(9,554,094)	(13,049,154)	0	(15,566,329)	(2,292,640)	(254,371)
Total Group 1 Balance		0	(1,535,012)	0	(13)	(1,535,025)	0	(1,623,838)	0	0	(1,623,838)	(1,535,025)	(11,218,662)	4,477,210	0	(17,230,897)	(1,623,838)	5,199
LRAM Variance Account (only input amounts if applying for disposition of this account)	**1568**					0					0	0	716,910			716,910	0	
Total including Account 1568		0	(1,535,012)	0	(13)	(1,535,025)	0	(1,623,838)	0	0	(1,623,838)	(1,535,025)	(10,501,752)	4,477,210	0	(16,513,987)	(1,623,838)	5,199

For all OEB-Approved dispositions, please ensure that the disposition amount has the same sign (e.g: debit balances are to have a positive figure and credit balance are to have a negative figure) as per the related OEB decision.

Please provide explanations for the nature of the adjustments. If the adjustment relates to previously OEB-Approved disposed balances, please provide amounts for adjustments and include supporting documentations.

For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transactions during the year.

If the LDC's rate year begins on January 1, 2017, the projected interest is recorded from January 1, 2016 to December 31, 2016 on the December 31, 2015 balances adjusted for the disposed balances approved by the OEB in the 2016 rate decision. If the LDC's rate year begins on May 1, 2017, the projected interest is recorded from January 1, 2016 to April 30, 2017 on the December 31, 2015 balances adjusted for the disposed interest balances approved by the OEB in the 2016 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 30-36) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, do not include the respective balance in Account 1595 for disposition at this time.

INCENTIVE REGULATION MODEL FO

Please complete the following continuity schedule for the following Deferral/Variance Accounts. Enter information into green cells only. Column CE shoudl match the latest 2.1.7 RRR filing.

When inputting balances in the continuity schedule, Account 1580 RSVA - Wholesale Market Service Charge is to exclude any amounts relating to CBR. The CBR amounts are to be entered separately in the Class A and Class B 1580 sub-accounts. Only Class B amounts are to be disposed. Class A amounts are not to be disposed.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your general ledger for which you received approval. For example, if in the 2016 EDR process (CoS or IRM) you received approval for the December 31, 2014 balances, the starting point for your entries below should be the 2013 year. This will allow for the correct starting point for the 2014 opening balance columns for both principal and interest.

Please refer to the footnotes for further instructions.

					2013													
Account Descriptions	Account Number	OEB-Approved Disposition during 2012	Interest Adjustments[1] during 2012	Closing Interest Amounts as of Dec 31, 2012	Opening Principal Amounts as of Jan 1, 2013	Transactions[2] Debit / (Credit) during 2013	OEB-Approved Disposition during 2013	Principal Adjustments[1] during 2013	Closing Principal Balance as of Dec 31, 2013	Opening Interest Amounts as of Jan 1, 2013	Interest Jan 1 to Dec 31, 2013	OEB-Approved Disposition during 2013	Interest Adjustments[1] during 2013	Closing Interest Amounts as of Dec 31, 2013	Opening Principal Amounts as of Jan 1, 2014	Transactions[2] Debit / (Credit) during 2014	OEB-Approved Disposition during 2014	Principal Adjustments[1] during 2014
Group 1 Accounts																		
LV Variance Account	1550	(35,310)		3,032	477,919	(112,182)			365,737	3,032	6,431			9,463	365,737	(133,409)	477,919	
Smart Metering Entity Charge Variance Account	1551			0	0	185,108			185,108	0	1,632			1,632	185,108	(93,458)		
RSVA - Wholesale Market Service Charge	1580	(780,247)		(84,419)	(10,646,313)	(5,065,917)			(15,712,230)	(84,419)	(200,434)			(284,853)	(15,712,230)	(877,534)	(10,646,313)	
Variance WMS – Sub-account CBR Class A	1580			0	0				0	0				0	0			
Variance WMS – Sub-account CBR Class B	1580			0	0				0	0				0	0			
RSVA - Retail Transmission Network Charge	1584	(77,003)		23,373	1,005,953	2,616,584			3,622,537	23,373	30,713			54,086	3,622,537	1,288,689	1,005,953	
RSVA - Retail Transmission Connection Charge	1586	(204,532)		(4,963)	(588,230)	601,094			12,864	(4,963)	(5,847)			(10,810)	12,864	852,228	(588,230)	
RSVA - Power	1588	431,043		(22,210)	877,088	1,357,196			2,234,284	(22,210)	51,968			29,758	2,234,284	(794,425)	877,088	
RSVA - Global Adjustment	1589	927,145		1,227	(1,664,568)	(3,374,332)			(5,038,900)	1,227	22,026			23,253	(5,038,900)	13,553,905	(1,664,568)	
Disposition and Recovery/Refund of Regulatory Balances (2009)[4]	1595	3,208		14	(15)				(15)	14				14	(15)	2	(15)	
Disposition and Recovery/Refund of Regulatory Balances (2010)[4]	1595			0	0				0	0				0	0			
Disposition and Recovery/Refund of Regulatory Balances (2011)[4]	1595			(1,798,997)	1,552,959	1,575,260			3,128,219	(1,798,997)	8,790			(1,790,207)	3,128,219	124		
Disposition and Recovery/Refund of Regulatory Balances (2012)[4]	1595	86,845		(86,845)	(8,245,690)	2,661,661			(5,584,029)	(86,845)	(105,234)			(192,079)	(5,584,029)	4,519,006		
Disposition and Recovery/Refund of Regulatory Balances (2013)[4]	1595			0	0				0	0				0	0			
Disposition and Recovery/Refund of Regulatory Balances (2014)[4]	1595			0	0				0	0				0	0	4,751,092	10,538,166	
Disposition and Recovery/Refund of Regulatory Balances (2015)[4]	1595			0	0				0	0				0	0			
Disposition and Recovery/Refund of Regulatory Balances (2016)[*] *Not to be disposed of unless rate rider has expired and balance has been audited*	1595			0	0				0	0				0	0			
RSVA - Global Adjustment	**1589**	927,145	0	1,227	(1,664,568)	(3,374,332)	0	0	(5,038,900)	1,227	22,026	0	0	23,253	(5,038,900)	13,553,905	(1,664,568)	0
Total Group 1 Balance excluding Account 1589 - Global Adjustment		(575,996)	0	(1,971,015)	(15,566,329)	3,818,804	0	0	(11,747,526)	(1,971,015)	(211,981)	0	0	(2,182,996)	(11,747,526)	9,512,314	1,664,568	0
Total Group 1 Balance		351,149	0	(1,969,788)	(17,230,897)	444,472	0	0	(16,786,426)	(1,969,788)	(189,955)	0	0	(2,159,743)	(16,786,426)	23,066,219	0	0
LRAM Variance Account (only input amounts if applying for disposition of this account)	**1568**			0	716,910	(513,961)			202,949	0	13,029			13,029	202,949	73,996		
Total including Account 1568		351,149	0	(1,969,788)	(16,513,987)	(69,489)	0	0	(16,583,477)	(1,969,788)	(176,926)	0	0	(2,146,714)	(16,583,477)	23,140,215	0	0

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Please provide explanations for the nature of the adjustments. If the adjustment relates to previously OEB-Approved disposed balances, please provide amounts for adjustments and include supporting documentations.

For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transactions during the year.

If the LDC's rate year begins on January 1, 2017, the projected interest is recorded from January 1, 2016 to December 31, 2016 on the December 31, 2015 balances adjusted for the disposed balances approved by the OEB in the 2016 rate decision. If the LDC's rate year begins on May 1, 2017, the projected interest is recorded from January 1, 2016 to April 30, 2017 on the December 31, 2015 balances adjusted for the disposed interest balances approved by the OEB in the 2016 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 30-36) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, do not include the respective balance in Account 1595 for disposition at this time.

INCENTIVE REGULATION MODEL FO

Please complete the following continuity schedule for the following Deferral/Variance Accounts. Enter information into green cells only. Column CE shoudl match the latest 2.1.7 RRR filing.

When inputting balances in the continuity schedule, Account 1580 RSVA - Wholesale Market Service Charge is to exclude any amounts relating to CBR. The CBR amounts are to be entered separately in the Class A and Class B 1580 sub-accounts. Only Class B amounts are to be disposed. Class A amounts are not to be disposed.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your general ledger for which you received approval. For example, if in the 2016 EDR process (CoS or IRM) you received approval for the December 31, 2014 balances, the starting point for your entries below should be the 2013 year. This will allow for the correct starting point for the 2014 opening balance columns for both principal and interest.

Please refer to the footnotes for further instructions.

		2014						2015											
Account Descriptions	Account Number	Closing Principal Balance as of Dec 31, 2014	Opening Interest Amounts as of Jan 1, 2014	Interest Jan 1 to Dec 31. 2014	OEB-Approved Disposition during 2014	Interest Adjustments[1] during 2014	Closing Interest Amounts as of Dec 31, 2014	Opening Principal Amounts as of Jan 1, 2015	Transactions[2] Debit / (Credit) during 2015	OEB-Approved Disposition during 2015	Principal Adjustments[1] during 2015	Closing Principal Balance as of Dec 31, 15	Opening Interest Amounts as of Jan 1, 15	Interest Jan 1 to Dec 31, 15	OEB-Approved Disposition during 2015	Interest Adjustments[1] during 2015	Closing Interest Amounts as of Dec 31, 15	Opening Principal Amounts as of Jan 1, 2016	Transactions[2] Debit / (Credit) during 2016
Group 1 Accounts																			
LV Variance Account	1550	(245,591)	9,463	(1,339)	10,057		(1,933)	(245,591)	1,878,889			1,633,298	(1,933)	2,930			997	1,633,298	2,598,645
Smart Metering Entity Charge Variance Account	1551	91,650	1,632	2,228			3,860	91,650	(127,715)			(36,065)	3,860	653			4,513	(36,065)	(125,095)
RSVA - Wholesale Market Service Charge	1580	(5,943,451)	(284,853)	(58,992)	(240,919)		(102,926)	(5,943,451)	(18,323,013)			(24,266,464)	(102,926)	(122,115)			(225,041)	(24,266,464)	(7,562,592)
Variance WMS – Sub-account CBR Class A	1580	0	0				0	0	52,344			52,344	0	153			153	52,344	(52,344)
Variance WMS – Sub-account CBR Class B	1580	0	0				0	0	2,283,692			2,283,692	0	7,620			7,620	2,283,692	(336,421)
RSVA - Retail Transmission Network Charge	1584	3,905,273	54,086	47,481	38,161		63,406	3,905,273	(2,787,980)			1,117,293	63,406	34,775			98,181	1,117,293	(3,707,690)
RSVA - Retail Transmission Connection Charge	1586	1,453,322	(10,810)	10,423	(13,609)		13,222	1,453,322	990,194			2,443,516	13,222	22,520			35,742	2,443,516	1,633,313
RSVA - Power	1588	562,771	29,758	27,275	(9,317)		66,350	562,771	(317,281)			245,490	66,350	18,480			84,830	245,490	2,176,561
RSVA - Global Adjustment	1589	10,179,573	23,253	46,383	(23,242)		92,878	10,179,573	5,736,837			15,916,410	92,878	141,760			234,638	15,916,410	(9,817,313)
Disposition and Recovery/Refund of Regulatory Balances (2009)[4]	1595	2	14		14		0	2				2	0				0	2	
Disposition and Recovery/Refund of Regulatory Balances (2010)[4]	1595	0	0				0	0				0	0				0	0	
Disposition and Recovery/Refund of Regulatory Balances (2011)[4]	1595	3,128,343	(1,790,207)	56,768			(1,733,439)	3,128,343	10,844		(3,273,851)	(134,664)	(1,733,439)	(23,253)		1,717,032	(39,660)	(134,664)	
Disposition and Recovery/Refund of Regulatory Balances (2012)[4]	1595	(1,065,024)	(192,079)	(22,367)			(214,446)	(1,065,024)	237,164		981,651	153,791	(214,446)	3,120		368,236	156,910	153,791	991
Disposition and Recovery/Refund of Regulatory Balances (2013)[4]	1595	0	0				0	0				0	0				0	0	
Disposition and Recovery/Refund of Regulatory Balances (2014)[4]	1595	(5,787,074)	0	(90,778)	277,339		(368,117)	(5,787,074)	5,684,237		173,316	70,479	(368,117)	(18,488)		33,613	(352,992)	70,479	8,671
Disposition and Recovery/Refund of Regulatory Balances (2015)[4]	1595	0	0				0	0				0	0				0	0	
Disposition and Recovery/Refund of Regulatory Balances (2016)[4] *Not to be disposed of unless rate rider has expired and balance has been audited*	1595	0	0				0	0				0	0				0	0	
RSVA - Global Adjustment	**1589**	10,179,573	23,253	46,383	(23,242)	0	92,878	10,179,573	5,736,837	0	0	15,916,410	92,878	141,760	0	0	234,638	15,916,410	(9,817,313)
Total Group 1 Balance excluding Account 1589 - Global Adjustment		(3,899,780)	(2,182,996)	(29,301)	61,726	0	(2,274,023)	(3,899,780)	(10,418,625)	0	(2,118,884)	(16,437,289)	(2,274,023)	(73,605)	0	2,118,881	(228,747)	(16,437,289)	(5,365,960)
Total Group 1 Balance		6,279,793	(2,159,743)	17,082	38,484	0	(2,181,145)	6,279,793	(4,681,788)	0	(2,118,884)	(520,879)	(2,181,145)	68,155	0	2,118,881	5,891	(520,879)	(15,183,273)
LRAM Variance Account (only input amounts if applying for disposition of this account)	**1568**	276,945	13,029	3,378			16,407	276,945	296,819			573,764	16,407	2,310			18,717	573,764	1,581,007
Total including Account 1568		6,556,738	(2,146,714)	20,460	38,484	0	(2,164,738)	6,556,738	(4,384,969)	0	(2,118,884)	52,885	(2,164,738)	70,465	0	2,118,881	24,608	52,885	(13,602,266)

For all OEB-Approved dispositions, please ensure that the disposition amount has the same sign (e.g: debit balances are to have a positive figure and credit balance are to have a negative figure) as per the related OEB decision.

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If the LDC's rate year begins on January 1, 2017, the projected interest is recorded from January 1, 2016 to December 31, 2016 on the December 31, 2015 balances adjusted for the disposed balances approved by the OEB in the 2016 rate decision. If the LDC's rate year begins on May 1, 2017, the projected interest is recorded from January 1, 2016 to April 30, 2017 on the December 31, 2015 balances adjusted for the disposed interest balances approved by the OEB in the 2016 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 30-36) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, do not include the respective balance in Account 1595 for disposition at this time.

INCENTIVE REGULATION MODEL FO

Please complete the following continuity schedule for the following Deferral/Variance Accounts. Enter information into green cells only. Column CE shoudl match the latest 2.1.7 RRR filing.

When inputting balances in the continuity schedule, Account 1580 RSVA - Wholesale Market Service Charge is to exclude any amounts relating to CBR. The CBR amounts are to be entered separately in the Class A and Class B 1580 sub-accounts. Only Class B amounts are to be disposed. Class A amounts are not to be disposed.

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		2016								2017									
Account Descriptions	Account Number	OEB-Approved Disposition during 2016	Principal Adjustments[1] during 2016	Closing Principal Balance as of Dec 31, 16	Opening Interest Amounts as of Jan 1, 16	Interest Jan 1 to Dec 31, 16	OEB-Approved Disposition during 2016	Interest Adjustments[1] during 2016	Closing Interest Amounts as of Dec 31, 16	Opening Principal Amounts as of Jan 1, 2017	Transactions2 Debit / (Credit) during 2017	OEB-Approved Disposition during 2017	Principal Adjustments1 during 2017	Closing Principal Balance as of Dec 31, 17	Opening Interest Amounts as of Jan 1, 17	Interest Jan 1 to Dec 31, 17	OEB-Approved Disposition during 2017	Interest Adjustments1 during 2017	Closing Interest Amounts as of Dec 31, 17
Group 1 Accounts																			
LV Variance Account	1550	(245,591)		4,477,534	997	31,733	(6,702)		39,432	4,477,534	1,506,288			5,983,822	39,432	62,844			102,277
Smart Metering Entity Charge Variance Account	1551	91,650		(252,810)	4,513	(1,054)	5,640		(2,181)	(252,810)	(389,459)			(642,269)	(2,181)	(3,628)			(5,809)
RSVA - Wholesale Market Service Charge	1580	(5,943,451)		(25,885,605)	(225,041)	(299,766)	(218,327)		(306,480)	(25,885,605)	(7,987,408)			(33,873,012)	(306,480)	(351,627)			(658,107)
Variance WMS – Sub-account CBR Class A	1580			0	153	(153)			(0)	0	(0)			(0)	(0)	0			(0)
Variance WMS – Sub-account CBR Class B	1580			1,947,271	7,620	22,213			29,833	1,947,271	(84,171)			1,863,100	29,833	22,577			52,410
RSVA - Retail Transmission Network Charge	1584	3,905,273		(6,495,670)	98,181	(12,831)	139,232		(53,882)	(6,495,670)	(6,668,761)			(13,164,431)	(53,882)	(117,824)			(171,706)
RSVA - Retail Transmission Connection Charge	1586	1,453,320		2,623,509	35,742	32,517	41,440		26,819	2,623,509	(1,010,067)			1,613,442	26,819	23,719			50,538
RSVA - Power	1588	562,770	(811,309)	1,047,973	84,830	13,235	77,277		20,788	1,047,973	2,567,047		4,413,063	8,028,082	20,788	(21,507)			(720)
RSVA - Global Adjustment	1589	10,179,574	4,970,749	890,272	234,638	157,113	290,529		101,223	890,272	4,877,432		(430,861)	5,336,843	101,223	42,793			144,016
Disposition and Recovery/Refund of Regulatory Balances (2009)[4]	1595			2	0			(21,764)	(21,764)	2				2	(21,764)				(21,764)
Disposition and Recovery/Refund of Regulatory Balances (2010)[4]	1595		7,318	7,318	0			153	153	7,318				7,318	153	88			241
Disposition and Recovery/Refund of Regulatory Balances (2011)[4]	1595		135,000	336	(39,660)	(1,485)		41,188	43	336				336	43	4			47
Disposition and Recovery/Refund of Regulatory Balances (2012)[4]	1595		(142,316)	12,466	156,910	1,696		(5,332)	153,273	12,466				12,466	153,273	150			153,423
Disposition and Recovery/Refund of Regulatory Balances (2013)[4]	1595			0	0				0	0				0	0				0
Disposition and Recovery/Refund of Regulatory Balances (2014)[4]	1595		(79,150)	(0)	(352,992)	(2,385)		64,903	(290,474)	(0)	1,872		33,769	35,642	(290,474)			1,416	(289,058)
Disposition and Recovery/Refund of Regulatory Balances (2015)[4]	1595			0	0				0	0				0	0				0
Disposition and Recovery/Refund of Regulatory Balances (2016)[4] *Not to be disposed of unless rate rider has expired and balance has been audited*	1595			0	0				0	0				0	0				0
RSVA - Global Adjustment	**1589**	10,179,574	4,970,749	890,272	234,638	157,113	290,529	0	101,223	890,272	4,877,432	0	(430,861)	5,336,843	101,223	42,793	0	0	144,016
Total Group 1 Balance excluding Account 1589 - Global Adjustment		(176,029)	(890,457)	(22,517,677)	(228,747)	(216,280)	38,560	79,148	(404,439)	(22,517,677)	(12,064,660)	0	4,446,832	(30,135,504)	(404,439)	(385,206)	0	1,416	(788,229)
Total Group 1 Balance		10,003,545	4,080,292	(21,627,405)	5,891	(59,166)	329,089	79,148	(303,216)	(21,627,405)	(7,187,227)	0	4,015,971	(24,798,661)	(303,216)	(342,413)	0	1,416	(644,213)
LRAM Variance Account (only input amounts if applying for disposition of this account)	**1568**			2,154,771	18,717	9,806			28,523	2,154,771	3,375,748			5,530,519	28,523	83,241			111,764
Total including Account 1568		10,003,545	4,080,292	(19,472,634)	24,608	(49,360)	329,089	79,148	(274,693)	(19,472,634)	(3,811,479)	0	4,015,971	(19,268,142)	(274,693)	(259,171)	0	1,416	(532,449)

For all OEB-Approved dispositions, please ensure that the disposition amount has the same sign (e.g: debit balances are to have a positive figure and credit balance are to have a negative figure) as per the related OEB decision.

Please provide explanations for the nature of the adjustments. If the adjustment relates to previously OEB-Approved disposed balances, please provide amounts for adjustments and include supporting documentations.

For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transactions during the year.

If the LDC's rate year begins on January 1, 2017, the projected interest is recorded from January 1, 2016 to December 31, 2016 on the December 31, 2015 balances adjusted for the disposed balances approved by the OEB in the 2016 rate decision. If the LDC's rate year begins on May 1, 2017, the projected interest is recorded from January 1, 2016 to April 30, 2017 on the December 31, 2015 balances adjusted for the disposed interest balances approved by the OEB in the 2016 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 30-36) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, do not include the respective balance in Account 1595 for disposition at this time.

INCENTIVE REGULATION MODEL F(

Please complete the following continuity schedule for the following Deferral/Variance Accounts. Enter information into green cells only. Column CE shoudl match the latest 2.1.7 RRR filing.

When inputting balances in the continuity schedule, Account 1580 RSVA - Wholesale Market Service Charge is to exclude any amounts relating to CBR. The CBR amounts are to be entered separately in the Class A and Class B 1580 sub-accounts. Only Class B amounts are to be disposed. Class A amounts are not to be disposed.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your general ledger for which you received approval. For example, if in the 2016 EDR process (CoS or IRM) you received approval for the December 31, 2014 balances, the starting point for your entries below should be the 2013 year. This will allow for the correct starting point for the 2014 opening balance columns for both principal and interest.

Please refer to the footnotes for further instructions.

		2018				Projected Interest on Dec-31-17 Balances			2.1.7 RRR	
Account Descriptions	Account Number	Principal Disposition during 2018 - instructed by OEB	Interest Disposition during 2018 - instructed by OEB	Closing Principal Balances as of Dec 31, 2017 Adjusted for Dispositions during 2018	Closing Interest Balances as of Dec 31, 2017 Adjusted for Disposition in 2018	Projected Interest from January 1, 2018 to December 31, 2018 on December 31, 2017 balance adjusted for disposition during 2019 [3]	Total Interest	Total Claim	As of Dec 31-17	Variance RRR vs. 2017 Balance *(Principal + Interest)*
Group 1 Accounts										
LV Variance Account	1550	4,477,534	117,006	1,506,288	(14,729)	27,000	12,271	1,518,559	6,086,100	1
Smart Metering Entity Charge Variance Account	1551	(252,810)	(6,561)	(389,459)	752	(6,981)	(6,229)	(395,688)	(648,079)	(0)
RSVA - Wholesale Market Service Charge	1580	(25,885,605)	(754,948)	(7,987,408)	96,841	(143,174)	(46,334)	(8,033,741)	(34,531,120)	(0)
Variance WMS – Sub-account CBR Class A	1580	0	0	(0)	(0)	(0)	(0)	(0)	(0)	0
Variance WMS – Sub-account CBR Class B	1580	1,947,271	63,569	(84,171)	(11,160)	(1,509)	(12,668)	(96,840)	1,915,509	0
RSVA - Retail Transmission Network Charge	1584	(6,495,670)	(166,419)	(6,668,761)	(5,287)	(119,538)	(124,824)	(6,793,585)	(13,336,137)	0
RSVA - Retail Transmission Connection Charge	1586	2,623,509	72,272	(1,010,067)	(21,734)	(18,105)	(39,839)	(1,049,907)	1,663,980	0
RSVA - Power	1588	1,047,973	38,944	6,980,109	(39,664)	125,118	85,455	7,065,564	4,425,608	(3,601,754)
RSVA - Global Adjustment	1589	890,272	116,647	4,446,571	27,369	79,705	107,074	4,553,645	940,971	(4,539,888)
Disposition and Recovery/Refund of Regulatory Balances (2009)[4]	1595	2	(21,764)	0	(0)	0	(0)	0	(21,762)	0
Disposition and Recovery/Refund of Regulatory Balances (2010)[4]	1595	7,318	280	0	(39)	0	(39)	0	7,559	0
Disposition and Recovery/Refund of Regulatory Balances (2011)[4]	1595	336	49	0	(2)	0	(2)	0	382	(1)
Disposition and Recovery/Refund of Regulatory Balances (2012)[4]	1595	12,466	153,489	0	(66)	0	(66)	0	165,889	0
Disposition and Recovery/Refund of Regulatory Balances (2013)[4]	1595	0	0	0	0	0	0	0	0	0
Disposition and Recovery/Refund of Regulatory Balances (2014)[4]	1595	(0)	(290,474)	35,642	1,416	639	2,055	0	(253,416)	(0)
Disposition and Recovery/Refund of Regulatory Balances (2015)[4]	1595	0	0	0	0	0	0	0		0
Disposition and Recovery/Refund of Regulatory Balances (2016)[*] *Not to be disposed of unless rate rider has expired and balance has been audited*	1595	0	0	0	0	0	0	0	0	0
RSVA - Global Adjustment	**1589**	890,272	116,647	4,446,571	27,369	79,705	107,074	4,553,645	940,971	(4,539,888)
Total Group 1 Balance excluding Account 1589 - Global Adjustment		(22,517,677)	(794,558)	(7,617,828)	6,329	(136,550)	(130,221)	(7,785,638)	(34,525,487)	(3,601,754)
Total Group 1 Balance		(21,627,405)	(677,911)	(3,171,256)	33,698	(56,845)	(23,147)	(3,231,993)	(33,584,516)	(8,141,642)
LRAM Variance Account (only input amounts if applying for disposition of this account)	**1568**	2,154,771	65,854	3,375,748	45,910	60,510	106,420	3,482,168	5,642,283	(0)
Total including Account 1568		(19,472,634)	(612,057)	204,492	79,608	3,666	83,273	250,176	(27,942,233)	(8,141,642)

For all OEB-Approved dispositions, please ensure that the disposition amount has the same sign (e.g: debit balances are to have a positive figure and credit balance are to have a negative figure) as per the related OEB decision.

Please provide explanations for the nature of the adjustments. If the adjustment relates to previously OEB-Approved disposed balances, please provide amounts for adjustments and include supporting documentations.

For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transactions during the year.

If the LDC's rate year begins on January 1, 2017, the projected interest is recorded from January 1, 2016 to December 31, 2016 on the December 31, 2015 balances adjusted for the disposed balances approved by the OEB in the 2016 rate decision. If the LDC's rate year begins on May 1, 2017, the projected interest is recorded from January 1, 2016 to April 30, 2017 on the December 31, 2015 balances adjusted for the disposed interest balances approved by the OEB in the 2016 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 30-36) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, do not include the respective balance in Account 1595 for disposition at this time.

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Information from the most recent RRR (2017 for 2019 IRM)

Rate Class	Unit	Total Metered kWh	Total Metered kW	Metered kWh for Non-RPP Customers	Metered kW for Non-RPP Customers	Metered kWh for Wholesale Market Participants (WMP)	Metered kW for Wholesale Market Participants (WMP)	Total Metered kWh less WMP consumption *(if applicable)*	Total Metered kW less WMP consumption *(if applicable)*
RESIDENTIAL SERVICE CLASSIFICATION	kWh	2,544,715,408	0	92,138,185	0			2,544,715,408	0
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	kWh	1,005,968,061	0	169,943,241	0			1,005,968,061	0
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	kW	4,569,203,493	11,884,201	4,198,623,578	10,721,485	28,137,506	54,146	4,541,065,986	11,830,055
LARGE USE SERVICE CLASSIFICATION	kW	51,786,631	78,983	51,786,631	78,983			51,786,631	78,983
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	13,620,175	0	116,789	0			13,620,175	0
STANDBY POWER SERVICE CLASSIFICATION	kW	0	0	0	0			0	0
SENTINEL LIGHTING SERVICE CLASSIFICATION	kW	297,132	780	19,885	35			297,132	780
STREET LIGHTING SERVICE CLASSIFICATION	kW	50,321,393	139,971	49,662,017	138,137			50,321,393	139,971
								0	0
								0	0
								0	0
								0	0
	Total	**8,235,912,292**	**12,103,934**	**4,562,290,327**	**10,938,640**	**28,137,506**	**54,146**	**8,207,774,786**	**12,049,788**

Approved Recoveries (class allocation %)

Rate Class	1595 Recovery Proportion (2009) [1]	1595 Recovery Proportion (2010) [1]	1595 Recovery Proportion (2011) [1]	1595 Recovery Proportion (2012) [1]	1595 Recovery Proportion (2013) [1]	1595 Recovery Proportion (2014) [1]	1595 Recovery Proportion (2015) [1]	1595 Recovery Proportion (2016) [1]	1568 LRAM Variance Account Class Allocation ($ amounts)	Number of Customers for Residential and GS<50 classes[3]
RESIDENTIAL SERVICE CLASSIFICATION	9.77%	9.8%	9.8%	9.8%	9.8%	9.8%	9.8%	9.8%	$664,506	331,461
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	5.40%	5.4%	5.4%	5.4%	5.4%	5.4%	5.4%	5.4%	$651,272	32,775
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	83.68%	83.7%	83.7%	83.7%	83.7%	83.7%	83.7%	83.7%	$1,052,800	
LARGE USE SERVICE CLASSIFICATION	0.18%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	-$5,567	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	0.04%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-$3,498	
STANDBY POWER SERVICE CLASSIFICATION	0.00%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	$0	
SENTINEL LIGHTING SERVICE CLASSIFICATION	0.00%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-$170	
STREET LIGHTING SERVICE CLASSIFICATION	0.93%	0.9%	0.9%	0.9%	0.9%	0.9%	0.9%	0.9%	$176,534	
Total	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**$2,535,878**	**364,236**

Threshold Test

Total Claim (including Account 1568)	$250,176
Total Claim for Threshold Test (All Group 1 Accounts)	($3,231,993)
Threshold Test (Total claim per kWh) [2]	**($0.0004)**
Exceeds Threshold?	**No**
ELECT TO DISPOSE of the Group 1 Account Balances?	**Yes**

1568 Account Balance from Continuity Schedule	$3,482,168
Total Balance of Account 1568 in Column T DOES NOT MATCH the amount entered on the Continuity Schedule	

As per Section 3.2.5 of the 2017 Filing Requirements for Electricity Distribution Rate Applications, an applicant may elect to dispose of the Group 1 account balances below the threshold.

[1] Residual Account balance to be allocated to rate classes in proportion to the recovery share as established when rate riders were implemented.

[2] The Threshold Test does not include the amount in 1568.

[3] The proportion of customers for the Residential and GS<50 Classes will be used to allocate Account 1551.

Information from the 2016 RRR

Rate Class	Unit	Total Metered kWh	Total Metered kW	Metered kWh for Non-RPP Customers	Metered kW for Non-RPP Customers	Metered kWh for Wholesale Market Participants (WMP)	Metered kW for Wholesale Market Participants (WMP)	Total Metered kWh less WMP consumption *(if applicable)*	Total Metered kW less WMP consumption *(if applicable)*
RESIDENTIAL SERVICE CLASSIFICATION	kWh	2,770,663,827	0	119,404,036	0			2,770,663,827	0
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	kWh	1,035,123,196	0	180,696,305	0			1,035,123,196	0
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	kW	4,608,279,659	12,138,626	4,190,177,249	10,153,980	30,373,390	57,038	4,577,906,269	12,081,588
LARGE USE SERVICE CLASSIFICATION	kW	67,734,070	149,959	67,734,070	149,959			67,734,070	149,959
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	13,630,753	0	132,605	0			13,630,753	0
STANDBY POWER SERVICE CLASSIFICATION	kW	0	0	0	0			0	0
SENTINEL LIGHTING SERVICE CLASSIFICATION	kW	314,901	858	15,920	820			314,901	858
STREET LIGHTING SERVICE CLASSIFICATION	kW	52,846,039	148,247	52,181,421	146,077			52,846,039	148,247
0								0	0
								0	0
								0	0
								0	0
	Total	**8,548,592,446**	**12,437,690**	**4,610,341,606**	**10,450,836**	**30,373,390**	**57,038**	**8,518,219,056**	**12,380,652**

GS>50 Interval and non-Interval - 2017

Rate Class	Unit	Total Metered kWh	Total Metered kW	Metered kWh for Non-RPP Customers	Metered kW for Non-RPP Customers	Metered kWh for Wholesale Market Participants (WMP)	Metered kW for Wholesale Market Participants (WMP)	Total Metered kWh less WMP consumption *(if applicable)*	Total Metered kW less WMP consumption *(if applicable)*
GS>50 Interval Accounts	kWh	2,116,280,141	5,504,307	1,944,641,711	4,965,781	28,137,506	54,146	2,088,142,635	5,450,161
GS>50 The rest	kWh	2,452,923,351	6,379,894	2,253,981,867	5,755,704			2,452,923,351	6,379,894
GS>50 Total	kW	4,569,203,493	11,884,201	4,198,623,578	10,721,485	28,137,506	54,146	4,541,065,986	11,830,055
control check to RRR		0	0	(0)	0	0	0	0	(0)

GS>50 Interval and non-Interval - 2016

Rate Class	Unit	Total Metered kWh	Total Metered kW	Metered kWh for Non-RPP Customers	Metered kW for Non-RPP Customers	Metered kWh for Wholesale Market Participants (WMP)	Metered kW for Wholesale Market Participants (WMP)	Total Metered kWh less WMP consumption *(if applicable)*	Total Metered kW less WMP consumption *(if applicable)*
GS>50 Interval Accounts	kWh	2,318,951,031	5,647,087	2,184,532,398	4,698,014	30,373,390	57,038	2,288,577,641	5,590,049
GS>50 The rest	kWh	2,289,505,114	6,491,539	2,005,644,851	5,455,965			2,289,505,114	6,491,539
GS>50 Total	kW	4,608,456,145	12,138,626	4,190,177,249	10,153,980	30,373,390	57,038	4,578,082,755	12,081,588
control check to RRR		176,486	(0)	(0)	0	0	0	176,486	(0)

GS>50 Interval and non-Interval - 2017 CIR (based on Proposed 2018 Load Forecast - 2017 CIR EDVAR Model)

Rate Class	Unit	Total Metered kWh	Total Metered kW	Metered kWh for Non-RPP Customers	Metered kW for Non-RPP Customers	Metered kWh for Wholesale Market Participants (WMP)	Metered kW for Wholesale Market Participants (WMP)	Total Metered kWh less WMP consumption *(if applicable)*	Total Metered kW less WMP consumption *(if applicable)*
GS>50 Interval Accounts (Allocated)	kWh	0	0	0	0	0	0	0	0
GS>50 The rest (Allocated)	kWh	0	0	0	0	0	0	0	0
GS>50 Total	kW	0	0	0	0	0	0	0	0
2018 EDVAR Model									

INCENTIVE REGULATION MODEL FOR 2019 FILERS

No input required. This workshseet allocates the deferral/variance account balances (Group 1 and 1568) to the appropriate classes as per EDDVAR dated July 31, 2009

Allocation of Group 1 Accounts (including Account 1568)

Rate Class	% of Total kWh	% of Total non-RPP kWh	% of Customer Numbers **	% of Total kWh adjusted for WMP	1550	1551	1580 allocated based on Total less WMP	1584	1586	1588 allocated based on Total less WMP	1595_(2009)	1595_(2010)	1595_(2011)	1595_(2012)	1595_(2014)	1568
RESIDENTIAL SERVICE CLASSIFICATION	30.9%	2.0%	91.0%	31.0%	469,201	(360,083)	(2,490,759)	(2,099,068)	(324,398)	2,190,588	0	0	0	0	0	664,506
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	12.2%	3.7%	9.0%	12.3%	185,483	(35,605)	(984,638)	(829,796)	(128,240)	865,975	0	0	0	0	0	651,272
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	55.5%	92.0%	0.0%	55.3%	842,482	0	(4,444,780)	(3,769,015)	(582,478)	3,909,122	0	0	0	0	0	1,052,800
LARGE USE SERVICE CLASSIFICATION	0.6%	1.1%	0.0%	0.6%	9,549	0	(50,689)	(42,717)	(6,602)	44,580	0	0	0	0	0	(5,567)
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	0.2%	0.0%	0.0%	0.2%	2,511	0	(13,331)	(11,235)	(1,736)	11,725	0	0	0	0	0	(3,498)
STANDBY POWER SERVICE CLASSIFICATION	0.0%	0.0%	0.0%	0.0%	0	0	0	0	0	0	0	0	0	0	0	0
SENTINEL LIGHTING SERVICE CLASSIFICATION	0.0%	0.0%	0.0%	0.0%	55	0	(291)	(245)	(38)	256	0	0	0	0	0	(170)
STREET LIGHTING SERVICE CLASSIFICATION	0.6%	1.1%	0.0%	0.6%	9,278	0	(49,254)	(41,509)	(6,415)	43,319	0	0	0	0	0	176,534
											0	0	0	0	0	0
	100.0%	100.0%	100.0%	100.0%	**1,518,559**	**(395,688)**	**(8,033,741)**	**(6,793,585)**	**(1,049,907)**	**7,065,564**	**0**	**0**	**0**	**0**	**0**	**2,535,878**

*** Used to allocate Account 1551 as this account records the variances arising from the Smart Metering Entity Charges to Residential and GS<50 customers.*

INCENTIVE REGULATION MODEL FOR 2019 FILERS

The purpose of this tab is to calculate the GA rate riders for all current Class B customers of the distributor.
Identify the total billed consumption for former Class B customers prior to becoming Class A customers in Column G.
Identify the total interval metered accounts billed consumption, if billed on Actual GA rate.
Effective January 2017, the billing determinant and all rate riders for the disposition of GA balances will be calculated on an energy basis (kWhs) regardless of the billing determinant used for distribution rates for the particular class (see Chapter 3, Filing Requirements, section 3.2.5.2)

	Total Metered Non-RPP consumption minus WMP	Total Metered Class A Consumption in 2017 (partial and/or full year Class A customers)*	Total Metered Consumption for New Class A customer(s) in the period prior to becoming Class A (i.e. Jan. 1 - June 30, 2017)	Total Metered Consumption for New Class B customer(s) in the period after becoming Class B (i.e. Jul 1 - Dec 31, 2017)	Total Interval-metered Consumption in 2017 for non-Class A customers	Metered Consumption for Current Class B non-Interval Customers (Non-RPP consumption LESS WMP, Class A and new Class A's former Class B consumption if applicable)	% of total kWh	Total GA $ allocated to Current Class B Customers	GA Rate Rider
	kWh	kWh	kWh	kWh	kWh	kWh			
RESIDENTIAL SERVICE CLASSIFICATION	92,138,185					92,138,185	3.5909%	$163,518	$0.0018
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	169,943,241					169,943,241	6.6232%	$301,599	$0.0018
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	4,170,486,072	753,292,526	426,790,694		736,420,985	2,253,981,867	87.8450%	$4,000,150	$0.0018
LARGE USE SERVICE CLASSIFICATION	51,786,631	49,680,913	2,105,717	0		0	0.0000%	$0	$0.0000
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	116,789					116,789	0.0046%	$207	$0.0018
STANDBY POWER SERVICE CLASSIFICATION	0					0	0.0000%	$0	
SENTINEL LIGHTING SERVICE CLASSIFICATION	19,885					19,885	0.0008%	$35	$0.0018
STREET LIGHTING SERVICE CLASSIFICATION	49,662,017					49,662,017	1.9355%	$88,135	$0.0018
	4,534,152,821	**802,973,439**	**428,896,411**	**-**	**736,420,985**	**2,565,861,985**	**100.0%**	**4,553,645**	
								from Sheet 6B	

*For new Class A customers (who became Class A in 2016), add their consumption only related to July to December period.
All Class A customers are interval-metered. They consumption is included in Column D.
**PowerStream bills Class B non-RPP interval billed customers at the actual monthly GA rate (no GA variance) and non-interval customers at the first estimate rate.

2016 DATA	Total Metered Non-RPP consumption minus WMP	Total Metered Class A Consumption in 2016 (partial and/or full year Class A customers)*	Total Metered Consumption for New Class A customer(s) in the period prior to becoming Class A (i.e. Jan. 1 - June 30, 2016)
	kWh	kWh	kWh
RESIDENTIAL SERVICE CLASSIFICATION			
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION			
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION			
LARGE USE SERVICE CLASSIFICATION			
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION			
STANDBY POWER SERVICE CLASSIFICATION			
SENTINEL LIGHTING SERVICE CLASSIFICATION			
STREET LIGHTING SERVICE CLASSIFICATION			
	-	-	-

INCENTIVE REGULATION MODEL FOR 2019 FILERS

This tab allocates the GA balance to former Class B non-interval customers who contributed to the current GA balance but are now Class A customers. The tables below calculate specific amounts for each customer who made the change. Consistent with both decisions for 2016 rates and EDDVAR, distributors are generally expected to settle the amount through 12 equal adjustments to bills. A one-time settlement is acceptable if the affected customer has expressed a clear preference for this approach. (see Filing Requirements section 3.2.5.2)

Year of Group 1 Account Balance Last Disposed | **2016** | **(e.g. If in the 2017 EDR process, you received approval to dispose the GA variance account balance as of December 31, 2014, please enter 2014 in cell C16.)**

Allocation of total Non-RPP consumption (kWh) between Class B and New Class A (Former Class B non-Interval) customers

		Total	2017
Total Class B Consumption for Years Since Last Disposition (Non-RPP consumption LESS WMP and Class A)	A	3,731,179,381	3,731,179,381
New Class A Customer(s)' Former Class B non-Interval Consumption	B	-	-
Portion of Consumption of Former Class B non-Interval Customers	C=B/A	**0.00%**	

Allocation of Total GA Balance $

Total GA Balance	D	$ 4,553,645
New Class A Customer(s)' Former Class B non-Intervals Portion of GA Balance	E=C*D	$ -
GA Balance to be disposed to Current Class B Customers **(if no Class A to Class B Transition Customers)**	F=D-E	$ 4,553,645

Allocation of GA Balances to Former Class B non-Interval Customers

# of Former Class B customer(s)			2				
Customer		**Total Metered kWh Consumption for each new Class A customer for the period prior to becoming Class A**	**Metered kWh Consumption for each new Class A customer for the period prior to becoming Class A in 2017**	**Interval-Billed* Customer? Yes/No**	**% of kWh**	**Customer specific GA allocation for the period prior to becoming Class A**	**Monthly Equal Payments**
Customer 1		4,861,795	4,861,795	Yes			
Customer 2		3,930,790	3,930,790	Yes			
Customer 3		6,047,774	6,047,774	Yes			
Customer 4		6,481,812	6,481,812	Yes			
Customer 5		4,803,826	4,803,826	Yes			
Customer 6		2,611,330	2,611,330	Yes			
Customer 7		1,595,116	1,595,116	Yes			
Customer 8		2,387,756	2,387,756	Yes			
Customer 9		5,720,262	5,720,262	Yes			
Customer 10		3,272,370	3,272,370	Yes			
Customer 11		8,441,839	8,441,839	Yes			
Customer 12		2,625,838	2,625,838	Yes			
Customer 13		2,653,445	2,653,445	Yes			
Customer 14		3,147,859	3,147,859	Yes			
Customer 15		3,332,918	3,332,918	Yes			
Customer 16		4,136,640	4,136,640	Yes			
Customer 17		3,245,970	3,245,970	Yes			
Customer 18		3,177,049	3,177,049	Yes			
Customer 19		2,809,619	2,809,619	Yes			
Customer 20		6,209,492	6,209,492	Yes			
Customer 21		4,527,930	4,527,930	Yes			
Customer 22		3,782,021	3,782,021	Yes			
Customer 23		3,742,652	3,742,652	Yes			
Customer 24		2,782,849	2,782,849	Yes			
Customer 25		5,097,300	5,097,300	Yes			
Customer 26		3,461,136	3,461,136	Yes			
Customer 27		2,918,977	2,918,977	Yes			
Customer 28		5,487,950	5,487,950	Yes			
Customer 29		3,639,314	3,639,314	Yes			
Customer 30		4,521,496	4,521,496	Yes			
Customer 31		2,048,150	2,048,150	Yes			
Customer 32		3,655,014	3,655,014	Yes			
Customer 33		5,198,389	5,198,389	Yes			
Customer 34		2,184,895	2,184,895	Yes			
Customer 35		2,607,538	2,607,538	Yes			
Customer 36		2,832,058	2,832,058	Yes			
Customer 37		8,843,195	8,843,195	Yes			
Customer 38		4,322,961	4,322,961	Yes			
Customer 39		1,753,749	1,753,749	Yes			
Customer 40		3,149,977	3,149,977	Yes			
Customer 41		8,778,716	8,778,716	Yes			
Customer 42		1,626,269	1,626,269	Yes			
Customer 43		3,030,377	3,030,377	Yes			
Customer 44		5,406,286	5,406,286	Yes			
Customer 45		3,313,831	3,313,831	Yes			
Customer 46		6,473,884	6,473,884	Yes			
Customer 47		5,059,374	5,059,374	Yes			
Customer 48		8,753,052	8,753,052	Yes			
Customer 49		3,500,169	3,500,169	Yes			
Customer 50		699,837	699,837	Yes			

Customer 51		2,342,897	2,342,897	Yes			
Customer 52		6,336,351	6,336,351	Yes			
Customer 53		6,716,395	6,716,395	Yes			
Customer 54		3,540,222	3,540,222	Yes			
Customer 55		2,775,089	2,775,089	Yes			
Customer 56		1,147,914	1,147,914	Yes			
Customer 57		10,462,652	10,462,652	Yes			
Customer 58		2,036,046	2,036,046	Yes			
Customer 59		3,726,870	3,726,870	Yes			
Customer 60		5,799,122	5,799,122	Yes			
Customer 61		4,815,071	4,815,071	Yes			
Customer 62		3,714,539	3,714,539	Yes			
Customer 63		5,962,741	5,962,741	Yes			
Customer 64		4,518,736	4,518,736	Yes			
Customer 65		3,188,033	3,188,033	Yes			
Customer 66		3,295,887	3,295,887	Yes			
Customer 67		7,598,348	7,598,348	Yes			
Customer 68		6,024,553	6,024,553	Yes			
Customer 69		1,677,314	1,677,314	Yes			
Customer 70		2,105,717	2,105,717	Yes			
Customer 71		3,309,934	3,309,934	Yes			
Customer 72		4,898,822	4,898,822	Yes			
Customer 73		1,991,948	1,991,948	Yes			
Customer 74		1,520,701	1,520,701	Yes			
Customer 75		5,058,891	5,058,891	Yes			
Customer 76		3,043,406	3,043,406	Yes			
Customer 77		3,055,943	3,055,943	Yes			
Customer 78		3,382,701	3,382,701	Yes			
Customer 79		2,254,087	2,254,087	Yes			
Customer 80		3,745,242	3,745,242	Yes			
Customer 81		4,064,858	4,064,858	Yes			
Customer 82		1,399,447	1,399,447	Yes			
Customer 83		331,220	331,220	Yes			
Customer 84		1,685,011	1,685,011	Yes			
Customer 85		9,112,551	9,112,551	Yes			
Customer 86		6,594,938	6,594,938	Yes			
Customer 87		5,737,222	5,737,222	Yes			
Customer 88		1,858,005	1,858,005	Yes			
Customer 89		7,131,936	7,131,936	Yes			
Customer 90		7,731,101	7,731,101	Yes			
Customer 91		5,414,949	5,414,949	Yes			
Customer 92		2,050,037	2,050,037	Yes			
Customer 93		4,803,846	4,803,846	Yes			
Customer 94		7,769,212	7,769,212	Yes			
Customer 95		6,473,172	6,473,172	Yes			
Customer 96		12,619,140	12,619,140	Yes			
Customer 97		8,228,039	8,228,039	Yes			
Customer 98		1,696,288	1,696,288	Yes			
Customer 99		3,470,909	3,470,909	Yes			
Customer 100		3,287,356	3,287,356	Yes			
Customer 101		2,698,156	2,698,156	Yes			
Total for all Customers		428,896,411	428,896,411				
Total for non-Interval billed ONLY		**0**	**0**		**0.00%**	**0**	

NOTES:
*PowerStream bills non-RPP interval customers using the Actual rate of Global Adjustment provided by the Independent Electricity System Operator (the “IESO”).

INCENTIVE REGULATION MODEL FOR 2019 FILERS

This tab allocates the GA balance to former Class A customers who contributed to the current Class B GA balance once switched to Class B non-interval customers. The tables below calculate specific amounts for each customer who made the transition. Consistent with both decisions for 2016 rates and EDDVAR, distributors are generally expected to settle the amount through 12 equal adjustments to bills. A one-time settlement is acceptable if the affected customer has expressed a clear preference for this approach. (see Filing Requirements section 3.2.5.2)

Year of Group 1 Account Balance Last Disposed	**2016**	**(e.g. If in the 2017 EDR process, you received approval to dispose the GA variance account balance as of December 31, 2014, please enter 2014 in cell C16.)**

Allocation of total Non-RPP consumption (kWh) between Class B and New Class B non-interval (Former Class A) customers

		Total	2017
Total Class B Consumption for Years Since Last Disposition (Non-RPP consumption LESS WMP and Class A)	A	3,731,179,381	3,731,179,381
New Class B non-Interval Customer(s)' Consumption	B	-	-
Portion of Consumption of New Class B non-Interval Customers	C=B/A	**0.00%**	

Allocation of Total GA Balance $

Total GA Calss B Balance adjusted for Class A	D	$ 4,553,645	
New Class B non-Interval Customer(s)' Former Class A Portion of GA Balance attributable to Class B	E=C*D	$ -	
New Class A Customer(s)' Former Class B non-Interval Portion of GA Balance	F=Sheet 6A	$ -	
GA Balance to be disposed to Current Class B Customers	**G=D-E-F**	**$ 4,553,645**	Input into Sheet 6. GA Calculation

Allocation of GA Balances to Former Class A Customers

# of Former Class B customer(s)			2				
Customer		**Total Metered kWh Consumption for each new Class B customer for the period after becoming Class B**	**Metered kWh Consumption for each new Class B customer for the period after becoming Class B in 2017**	**Interval-Billed* Customer? Yes/No**	**% of kWh**	**Customer specific GA allocation for the period after becoming Class B**	**Monthly Equal Payments**
Customer 1				Yes			
Total		0	0				
Total for non-Interval billed ONLY		**0**	**0**		**0.00%**	**$ -**	

INCENTIVE REGULATION MODEL FOR 2019 FILERS

The purpose of this tab is to calculate the CBR rate riders for all current Class B customers of the distributor.
Identify and input the total billed consumption for former Class B customers prior to becoming Class A customers in Column H.
Identify and input the total billed consumption for former Class A customers after becoming Class B customers in Column H.

Account 1580

Variance WMS – Sub-account CBR Class A	-$	0
Variance WMS – Sub-account CBR Class B	-$	96,840

	Total Metered LESS WMP		Total Metered Class A Consumption/Demand in 2017 (partial and/or full year Class A customers)*		Total Metered Consumption/Demand for New Class A customer(s) in the period prior to becoming Class A (i.e. Jan 1 - Jun 30, 2017)		Total Metered Consumption for New Class B customer(s) in the period after becoming Class B (i.e. Jul 1 - Dec 31, 2017)		Metered Consumption for Current Class B Customers (metered consumption/demand LESS WMP, Class A and new Class A's former Class B, if applicable)		% of total kWh	Total CBR $ allocated to Current Class B Customers	CBR Rate Rider
	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW			
RESIDENTIAL SERVICE CLASSIFICATION	2,544,715,408	0	0		0				2,544,715,408	0	36.479%	($33,280)	$0.0000
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	1,005,968,061	0	0		0				1,005,968,061	0	14.421%	($13,156)	$0.0000
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	4,541,065,986	11,830,055	753,292,526	1,459,233	426,790,694	893,425			3,360,982,766	9,477,396	48.180%	($43,955)	-$0.0046
LARGE USE SERVICE CLASSIFICATION	51,786,631	78,983	49,680,913	74,160	2,105,717	4,823	0	0	0	0	0.000%	($0)	$0.0000
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	13,620,175	0	0		0				13,620,175	0	0.195%	($178)	$0.0000
STANDBY POWER SERVICE CLASSIFICATION	0	0	0		0				0	0	0.000%	$0	
SENTINEL LIGHTING SERVICE CLASSIFICATION	297,132	780	0		0				297,132	780	0.004%	($4)	-$0.0050
STREET LIGHTING SERVICE CLASSIFICATION	50,321,393	139,971	0		0				50,321,393	139,971	0.721%	($658)	-$0.0047
	8,207,774,786	**12,049,788**	**802,973,439**	**1,533,393**	**428,896,411**	**898,249**	**-**	**-**	**6,975,904,935**	**9,618,146**	**100.0%**	**(91,231)** from Sheet 7B	

*For new Class A customers (who became Class A in 2016), add their consumption only related to July to December period.

INCENTIVE REGULATION MODEL FOR 2019 FILERS

This tab allocates the CBR balance to former Class B customers who contributed to the current CBR balance but are now Class A customers. The tables below calculate specific amounts for each customer who made the change. Consistent with both decisions for 2016 rates and EDDVAR, distributors are generally expected to settle the amount through 12 equal adjustments to bills. A one-time settlement is acceptable if the affected customer has expressed a clear preference for this approach. (see Filing Requirements section 3.2.5.2)

Year of Group 1 Account Balance Last Disposed | **2016**

Allocation of total Non-RPP consumption (kWh) between Class B and New Class A (Former Class B) customers

		Total	2017
Total MeteredConsumption for Years Since Last Disposition (consumption LESS WMP and Class A)	A	7,404,801,346	7,404,801,346
New Class A Customer(s)' Former Class B Consumption	B	428,896,411	428,896,411
Portion of Consumption of Former Class B Customers	C=B/A	**5.79%**	

Allocation of Total CBR Class B Balance $

Total CBR-Class B Balance	D	-$ 96,840
New Class A Customer(s)' Former Class B Portion of CBR-Class B Balance	E=C*D	-$ 5,609
CBR-Class B Balance to be disposed to Current Class B Customers **(if no Class A to Class B Transition Customers)**	F=D-E	-$ 91,231

Allocation of CBR Class B Balances to Former Class B Customers

# of Former Class B customer(s)			2			
Customer		**Total Metered kWh Consumption for each new Class A customer for the period prior to becoming Class A**	**Metered kWh Consumption for each new Class A customer for the period prior to becoming Class A in 2017**	**% of kWh**	**Customer specific CBR-Class B allocation for the period prior to becoming Class A**	**Monthly Equal Payments**
Customer 1		4,861,795	4,861,795	1.13%	-$ 64	-$ 5
Customer 2		3,930,790	3,930,790	0.92%	-$ 51	-$ 4
Customer 3		6,047,774	6,047,774	1.41%	-$ 79	-$ 7
Customer 4		6,481,812	6,481,812	1.51%	-$ 85	-$ 7
Customer 5		4,803,826	4,803,826	1.12%	-$ 63	-$ 5
Customer 6		2,611,330	2,611,330	0.61%	-$ 34	-$ 3
Customer 7		1,595,116	1,595,116	0.37%	-$ 21	-$ 2
Customer 8		2,387,756	2,387,756	0.56%	-$ 31	-$ 3
Customer 9		5,720,262	5,720,262	1.33%	-$ 75	-$ 6
Customer 10		3,272,370	3,272,370	0.76%	-$ 43	-$ 4
Customer 11		8,441,839	8,441,839	1.97%	-$ 110	-$ 9
Customer 12		2,625,838	2,625,838	0.61%	-$ 34	-$ 3
Customer 13		2,653,445	2,653,445	0.62%	-$ 35	-$ 3
Customer 14		3,147,859	3,147,859	0.73%	-$ 41	-$ 3
Customer 15		3,332,918	3,332,918	0.78%	-$ 44	-$ 4
Customer 16		4,136,640	4,136,640	0.96%	-$ 54	-$ 5

Customer 17			3,245,970	3,245,970	0.76%	-$	42	-$	4
Customer 18			3,177,049	3,177,049	0.74%	-$	42	-$	3
Customer 19			2,809,619	2,809,619	0.66%	-$	37	-$	3
Customer 20			6,209,492	6,209,492	1.45%	-$	81	-$	7
Customer 21			4,527,930	4,527,930	1.06%	-$	59	-$	5
Customer 22			3,782,021	3,782,021	0.88%	-$	49	-$	4
Customer 23			3,742,652	3,742,652	0.87%	-$	49	-$	4
Customer 24			2,782,849	2,782,849	0.65%	-$	36	-$	3
Customer 25			5,097,300	5,097,300	1.19%	-$	67	-$	6
Customer 26			3,461,136	3,461,136	0.81%	-$	45	-$	4
Customer 27			2,918,977	2,918,977	0.68%	-$	38	-$	3
Customer 28			5,487,950	5,487,950	1.28%	-$	72	-$	6
Customer 29			3,639,314	3,639,314	0.85%	-$	48	-$	4
Customer 30			4,521,496	4,521,496	1.05%	-$	59	-$	5
Customer 31			2,048,150	2,048,150	0.48%	-$	27	-$	2
Customer 32			3,655,014	3,655,014	0.85%	-$	48	-$	4
Customer 33			5,198,389	5,198,389	1.21%	-$	68	-$	6
Customer 34			2,184,895	2,184,895	0.51%	-$	29	-$	2
Customer 35			2,607,538	2,607,538	0.61%	-$	34	-$	3
Customer 36			2,832,058	2,832,058	0.66%	-$	37	-$	3
Customer 37			8,843,195	8,843,195	2.06%	-$	116	-$	10
Customer 38			4,322,961	4,322,961	1.01%	-$	57	-$	5
Customer 39			1,753,749	1,753,749	0.41%	-$	23	-$	2
Customer 40			3,149,977	3,149,977	0.73%	-$	41	-$	3
Customer 41			8,778,716	8,778,716	2.05%	-$	115	-$	10
Customer 42			1,626,269	1,626,269	0.38%	-$	21	-$	2
Customer 43			3,030,377	3,030,377	0.71%	-$	40	-$	3
Customer 44			5,406,286	5,406,286	1.26%	-$	71	-$	6
Customer 45			3,313,831	3,313,831	0.77%	-$	43	-$	4
Customer 46			6,473,884	6,473,884	1.51%	-$	85	-$	7
Customer 47			5,059,374	5,059,374	1.18%	-$	66	-$	6
Customer 48			8,753,052	8,753,052	2.04%	-$	114	-$	10
Customer 49			3,500,169	3,500,169	0.82%	-$	46	-$	4
Customer 50			699,837	699,837	0.16%	-$	9	-$	1
Customer 51			2,342,897	2,342,897	0.55%	-$	31	-$	3
Customer 52			6,336,351	6,336,351	1.48%	-$	83	-$	7
Customer 53			6,716,395	6,716,395	1.57%	-$	88	-$	7
Customer 54			3,540,222	3,540,222	0.83%	-$	46	-$	4
Customer 55			2,775,089	2,775,089	0.65%	-$	36	-$	3
Customer 56			1,147,914	1,147,914	0.27%	-$	15	-$	1
Customer 57			10,462,652	10,462,652	2.44%	-$	137	-$	11
Customer 58			2,036,046	2,036,046	0.47%	-$	27	-$	2
Customer 59			3,726,870	3,726,870	0.87%	-$	49	-$	4
Customer 60			5,799,122	5,799,122	1.35%	-$	76	-$	6
Customer 61			4,815,071	4,815,071	1.12%	-$	63	-$	5
Customer 62			3,714,539	3,714,539	0.87%	-$	49	-$	4
Customer 63			5,962,741	5,962,741	1.39%	-$	78	-$	6
Customer 64			4,518,736	4,518,736	1.05%	-$	59	-$	5
Customer 65			3,188,033	3,188,033	0.74%	-$	42	-$	3
Customer 66			3,295,887	3,295,887	0.77%	-$	43	-$	4
Customer 67			7,598,348	7,598,348	1.77%	-$	99	-$	8
Customer 68			6,024,553	6,024,553	1.40%	-$	79	-$	7
Customer 69			1,677,314	1,677,314	0.39%	-$	22	-$	2
Customer 70			2,105,717	2,105,717	0.49%	-$	28	-$	2
Customer 71			3,309,934	3,309,934	0.77%	-$	43	-$	4
Customer 72			4,898,822	4,898,822	1.14%	-$	64	-$	5
Customer 73			1,991,948	1,991,948	0.46%	-$	26	-$	2
Customer 74			1,520,701	1,520,701	0.35%	-$	20	-$	2
Customer 75			5,058,891	5,058,891	1.18%	-$	66	-$	6
Customer 76			3,043,406	3,043,406	0.71%	-$	40	-$	3

Customer 77			3,055,943	3,055,943	0.71%	-$ 40	-$ 3
Customer 78			3,382,701	3,382,701	0.79%	-$ 44	-$ 4
Customer 79			2,254,087	2,254,087	0.53%	-$ 29	-$ 2
Customer 80			3,745,242	3,745,242	0.87%	-$ 49	-$ 4
Customer 81			4,064,858	4,064,858	0.95%	-$ 53	-$ 4
Customer 82			1,399,447	1,399,447	0.33%	-$ 18	-$ 2
Customer 83			331,220	331,220	0.08%	-$ 4	-$ 0
Customer 84			1,685,011	1,685,011	0.39%	-$ 22	-$ 2
Customer 85			9,112,551	9,112,551	2.12%	-$ 119	-$ 10
Customer 86			6,594,938	6,594,938	1.54%	-$ 86	-$ 7
Customer 87			5,737,222	5,737,222	1.34%	-$ 75	-$ 6
Customer 88			1,858,005	1,858,005	0.43%	-$ 24	-$ 2
Customer 89			7,131,936	7,131,936	1.66%	-$ 93	-$ 8
Customer 90			7,731,101	7,731,101	1.80%	-$ 101	-$ 8
Customer 91			5,414,949	5,414,949	1.26%	-$ 71	-$ 6
Customer 92			2,050,037	2,050,037	0.48%	-$ 27	-$ 2
Customer 93			4,803,846	4,803,846	1.12%	-$ 63	-$ 5
Customer 94			7,769,212	7,769,212	1.81%	-$ 102	-$ 8
Customer 95			6,473,172	6,473,172	1.51%	-$ 85	-$ 7
Customer 96			12,619,140	12,619,140	2.94%	-$ 165	-$ 14
Customer 97			8,228,039	8,228,039	1.92%	-$ 108	-$ 9
Customer 98			1,696,288	1,696,288	0.40%	-$ 22	-$ 2
Customer 99			3,470,909	3,470,909	0.81%	-$ 45	-$ 4
Customer 100			3,287,356	3,287,356	0.77%	-$ 43	-$ 4
Customer 101			2,698,156	2,698,156	0.63%	-$ 35	-$ 3
Total			428,896,411	428,896,411	100.00%	-$ 5,609	-$ 467

INCENTIVE REGULATION MODEL FOR 2019 FILERS

This tab allocates the CBR-Class B balance to former Class A customers who contributed to the current CBR-Class B balance once switched to Class B customers. The tables below calculate specific amounts for each customer who made the transition. Consistent with both decisions for 2016 rates and EDDVAR, distributors are generally expected to settle the amount through 12 equal adjustments to bills. A one-time settlement is acceptable if the affected customer has expressed a clear preference for this approach. (see Filing Requirements section 3.2.5.2)

Year of Group 1 Account Balance Last Disposed | **2016**

Allocation of total Non-RPP consumption (kWh) between Class B and New Class B (Former Class A) customers

		Total	2017
Total Class B Consumption for Years Since Last Disposition (Non-RPP consumption LESS WMP and Class A)	A	7,404,801,346	7,404,801,346
New Class B Customer(s)' Consumption	B	-	-
Portion of Consumption of New Class B Customers	C=B/A	**0.00%**	

Allocation of Total CBR-Class B Balance $

Total CBR-Calss B Balance adjusted for Class A	D	-$ 96,840
New Class B Customer(s)' Former Class A Portion of CBR-Class B Balance attributable to Class B	E=C*D	$ -
New Class A Customer(s)' Former Class B Portion of CBR-Class B Balance	F=Sheet 6A	-$ 5,609
CBR-Class B Balance to be disposed to Current Class B Customers	**G=D-E-F**	**-$ 91,231**

Input into Sheet 7. CBR Calculation

Allocation of CBR-Class B Balances to Former Class A Customers

# of Former Class B customer(s)			1			
Customer		**Total Metered kWh Consumption for each new Class B customer for the period after becoming Class B**	**Metered kWh Consumption for each new Class B customer for the period after becoming Class B in 2017**	**% of kWh**	**Customer specific CBR-Class B allocation for the period after becoming Class B**	**Monthly Equal Payments**
Customer 1				0.00%	$ -	$ -
				0.00%	$ -	$ -
				0.00%	$ -	$ -
Total		0	0	0.00%	$ -	

INCENTIVE REGULATION MODEL FOR 2019 FILERS

Input required at cell D13 only. This workshseet calculates rate riders related to the Deferral/Variance Account Disposition (if applicable) and rate riders for Account 1568. Rate Riders will not be generated for the microFIT class.

Default Rate Rider Recovery Period (in months)	**12**	
Proposed Rate Rider Recovery Period (in months)	**12**	**Rate Rider Recovery to be used below**

Rate Class	Unit	Total Metered kWh	Metered kW or kVA	Total Metered kWh less WMP consumption	Total Metered kW less WMP consumption	Allocation of Group 1 Account Balances to All Classes [2]	Allocation of Group 1 Account Balances to Non-WMP Classes Only (if Applicable) [2]	Deferral/Variance Account Rate Rider [2]	Deferral/Variance Account Rate Rider for Non-WMP (if applicable) [2]	Account 1568 Rate Rider	Revenue Reconcilation [1]
RESIDENTIAL SERVICE CLASSIFICATION	kWh	2,544,715,408	0	2,544,715,408	0	(2,614,518)		(0.0010)	0.0000	0.0003	
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	kWh	1,005,968,061	0	1,005,968,061	0	(926,821)		(0.0009)	0.0000	0.0006	
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	kW	4,569,203,493	11,884,201	4,541,065,986	11,830,055	(3,509,011)	(535,658)	(0.2953)	(0.0453)	0.0886	
LARGE USE SERVICE CLASSIFICATION	kW	51,786,631	78,983	51,786,631	78,983	(45,879)		(0.5809)	0.0000	(0.0705)	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	13,620,175	0	13,620,175	0	(12,067)		(0.0009)	0.0000	(0.0003)	
STANDBY POWER SERVICE CLASSIFICATION	kW	0	0	0	0	0		0.0000	0.0000	0.0000	
SENTINEL LIGHTING SERVICE CLASSIFICATION	kW	297,132	780	297,132	780	(263)		(0.3377)	0.0000	(0.2176)	
STREET LIGHTING SERVICE CLASSIFICATION	kW	50,321,393	139,971	50,321,393	139,971	(44,581)		(0.3185)	0.0000	1.2612	
											(7,688,798)
											0

[1] When calculating the revenue reconciliation for distributors with Class A customers, the balances of sub-account 1580-CBR Class A and B will not be taken into consideration since the rate riders, if any, are calculated outside of the model.

[2] Only for rate classes with WMP customers are the Deferral/Variance Account Rate Riders for Non-WMP (column H and J) calculated separately. For all rate classes without WMP customers, balances in account 1580 and 1588 are included in column H and disposed through a combined Deferral/Variance Account and Rate Rider.

INCENTIVE REGULATION MODEL FOR 2019 FILERS

Summary - Sharing of Tax Change Forecast Amounts

For the 2017 year, enter any Tax Credits from the Cost of Service Tax Calculation (Positive #)

	2018		2019	
1. Tax Related Amounts Forecast from Capital Tax Rate Changes				
Taxable Capital **(if you are not claiming capital tax, please enter your OEB-Approved Rate Base)**			$	-
Deduction from taxable capital up to $15,000,000			$	-
Net Taxable Capital	$	-	$	-
Rate				0.00%
Ontario Capital Tax (Deductible, not grossed-up)	$	-	$	-
2. Tax Related Amounts Forecast from Income Tax Rate Changes				
Regulatory Taxable Income			$	-
Corporate Tax Rate				15.00%
Tax Impact	$	-	$	-
Grossed-up Tax Amount	$	-	$	-
Tax Related Amounts Forecast from Capital Tax Rate Changes	$	-	$	-
Tax Related Amounts Forecast from Income Tax Rate Changes	$	-	$	-
Total Tax Related Amounts	$	-	$	-
Incremental Tax Savings			$	-
Sharing of Tax Amount (50%)			**$**	**-**

INCENTIVE REGULATION MODEL FOR 2019 FILERS

Calculation of Rebased Revenue Requirement and Allocation of Tax Sharing Amount. Enter data from the last OEB-Approved Cost of Service application in columns D through I.
As per Chapter 3 Filing Requirements, shared tax rate riders are based on a 1 year disposition.

Rate Class		Re-based Billed Customers or Connections A	Re-based Billed kWh B	Re-based Billed kW C	Re-based Service Charge D	Re-based Distribution Volumetric Rate kWh E	Re-based Distribution Volumetric Rate kW F	Service Charge Revenue G = A * D *12	Distribution Volumetric Rate Revenue kWh H = B * E	Distribution Volumetric Rate Revenue kW I = C * F	Revenue Requirement from Rates J = G + H + I	Service Charge % Revenue K = G / J	Distribution Volumetric Rate % Revenue kWh L = H / J	Distribution Volumetric Rate % Revenue kW M = I / J	Total % Revenue N = J / R
RESIDENTIAL SERVICE CLASSIFICATION	kWh	331,461	2,689,802,037	0	18.51	0.0130		73,624,099	34,967,426	0	108,591,525	67.8%	32.2%	0.0%	53.8%
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	kWh	32,775	1,031,991,524	0	28.74	0.0183		11,303,471	18,885,445	0	30,188,916	37.4%	62.6%	0.0%	15.0%
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	kW	5,081	4,566,530,904	12,192,632	140.97		4.2037	8,594,518	0	51,254,165	59,848,683	14.4%	0.0%	85.6%	29.7%
LARGE USE SERVICE CLASSIFICATION	kW	2	75,964,677	149,679	6073.68		2.2421	145,768	0	335,595	481,364	30.3%	0.0%	69.7%	0.2%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	3,044	14,542,413		8.60	0.0195		314,098	283,577	0	597,675	52.6%	47.4%	0.0%	0.3%
STANDBY POWER SERVICE CLASSIFICATION	kW						2.8081	0	0	0	0	0.0%	0.0%	0.0%	0.0%
SENTINEL LIGHTING SERVICE CLASSIFICATION	kW	207	377,900	975	4.19		9.8694	10,408	0	9,621	20,029	52.0%	0.0%	48.0%	0.0%
STREET LIGHTING SERVICE CLASSIFICATION	kW	89,729	45,603,291	127,503	1.19		6.3222	1,281,327	0	806,099	2,087,425	61.4%	0.0%	38.6%	1.0%
0	0							0	0	0	0	0.0%	0.0%	0.0%	0.0%
								0	0	0	0	0.0%	0.0%	0.0%	0.0%
								0	0	0	0	0.0%	0.0%	0.0%	0.0%
								0	0	0	0	0.0%	0.0%	0.0%	0.0%
								0	0	0	0	0.0%	0.0%	0.0%	0.0%
Total		462,298	8,424,812,745	12,470,788				95,273,688	54,136,448	52,405,480	201,815,616				100.0%

Rate Class			Total kWh (most recent RRR filing)	Total kW (most recent RRR filing)	Allocation of Tax Savings by Rate Class	Distribution Rate Rider	
RESIDENTIAL SERVICE CLASSIFICATION		kWh	2,544,715,408		$ -	$ -	$/Customer
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION		kWh	1,005,968,061		$ -	$ -	$/kWh
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION		kW	4,569,203,493	11,884,201	$ -	$ -	$/kW
LARGE USE SERVICE CLASSIFICATION		kW	51,786,631	78,983	$ -	$ -	$/kW
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION		kWh	13,620,175		$ -	$ -	$/kWh
STANDBY POWER SERVICE CLASSIFICATION		kW			$ -		$/kWh
SENTINEL LIGHTING SERVICE CLASSIFICATION		kW	297,132	780	$ -	$ -	$/kW
STREET LIGHTING SERVICE CLASSIFICATION		kW	50,321,393	139,971	$ -	$ -	$/kW
	0	0			$ -		
					$ -		
					$ -		
					$ -		
					$ -		
			8,235,912,292	**12,103,934**	**$ -**		

If the allocated tax sharing amount does not produce a rate rider in one or more rate class (except for the Standby rate class), a distributor is required to transfer the entire OEB-approved tax sharing amount into account 1595 for disposition at a later date (see Filing Requirements, Appendix B)

INCENTIVE REGULATION MODEL FOR 2019 FILERS

Columns F and G must match the data from the most recent RRR filing.
Rates have been imported from Tab 2. As well, the Loss Factor has been imported from "Model Specs" tab.
If the data needs to be modified, please make the necessary adjustments and note the changes in your manager's summary.

Rate Class	Rate Description	Unit	Rate	Non-Loss Adjusted Metered kWh	Non-Loss Adjusted Metered kW	Applicable Loss Factor	Loss Adjusted Billed kWh
Residential Service Classification	Retail Transmission Rate – Network Service Rate	$/kWh	0.0075	2,544,715,408	0	1.0369	2,638,615,406
Residential Service Classification	Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0040	2,544,715,408	0	1.0369	2,638,615,406
General Service Less Than 50 kW Service Classification	Retail Transmission Rate – Network Service Rate	$/kWh	0.0067	1,005,968,061	0	1.0369	1,043,088,282
General Service Less Than 50 kW Service Classification	Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0035	1,005,968,061	0	1.0369	1,043,088,282
General Service Greater Than 50 kW Service Classification	Retail Transmission Rate – Network Service Rate	$/kW	2.6739	2,452,923,351	6,379,894	1.0369	2,543,436,223
General Service Greater Than 50 kW Service Classification	Retail Transmission Rate – Network Service Rate – Interval Metered	$/kW	2.8030	2,116,280,141	5,504,307	1.0369	2,194,370,879
General Service Greater Than 50 kW Service Classification	Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.3420	2,452,923,351	6,379,894	1.0369	2,543,436,223
General Service Greater Than 50 kW Service Classification	Retail Transmission Rate – Line and Transformation Connection Service Rate – Interval Metered	$/kW	1.4520	2,116,280,141	5,504,307	1.0369	2,194,370,879
Large Use Service Classification	Retail Transmission Rate – Network Service Rate	$/kW	3.2305	51,786,631	78,983	1.0145	52,537,537
Large Use Service Classification	Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.4016	51,786,631	78,983	1.0145	52,537,537
Unmetered Scattered Load Service Classification	Retail Transmission Rate – Network Service Rate	$/kWh	0.0063	13,620,175	0	1.0369	14,122,760
Unmetered Scattered Load Service Classification	Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0037	13,620,175	0	1.0369	14,122,760
Sentinel Lighting Service Classification	Retail Transmission Rate – Network Service Rate	$/kW	2.0778	297,132	780	1.0369	308,097
Sentinel Lighting Service Classification	Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	0.9929	297,132	780	1.0369	308,097
Street Lighting Service Classification	Retail Transmission Rate – Network Service Rate	$/kW	2.6888	50,321,393	139,971	1.0369	52,178,252
Street Lighting Service Classification	Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.4379	50,321,393	139,971	1.0369	52,178,252

INCENTIVE REGULATION MODEL FOR 2019 FILERS

Uniform Transmission Rates	Unit	2017		2018	2019
		Jan - Oct 2017	Nov - Dec 2017		
Rate Description		**Rate**	**Rate**	**Rate**	**Rate**
Network Service Rate	kW	$ 3.66	$ 3.52	$ 3.61	$ 3.61
Line Connection Service Rate	kW	$ 0.87	$ 0.88	$ 0.95	$ 0.95
Transformation Connection Service Rate	kW	$ 2.02	$ 2.13	$ 2.34	$ 2.34

Hydro One Sub-Transmission Rates	Unit	2017	2018	2019
Rate Description		**Rate**	**Rate**	**Rate**
Network Service Rate	kW	$ 3.1942	$ 3.1942	$ 3.1942
Line Connection Service Rate	kW	$ 0.7710	$ 0.7710	$ 0.7710
Transformation Connection Service Rate	kW	$ 1.7493	$ 1.7493	$ 1.7493
Both Line and Transformation Connection Service Rate	kW	$ 2.5203	$ 2.5203	$ 2.5203

If needed, add extra host here. (I)	Unit	2016	2017	2018
Rate Description		**Rate**	**Rate**	**Rate**
Network Service Rate	kW			
Line Connection Service Rate	kW			
Transformation Connection Service Rate	kW			
Both Line and Transformation Connection Service Rate	kW	$ -	$ -	$ -

If needed, add extra host here. (II)	Unit	2016	2017	2018
Rate Description		**Rate**	**Rate**	**Rate**
Network Service Rate	kW			
Line Connection Service Rate	kW			
Transformation Connection Service Rate	kW			
Both Line and Transformation Connection Service Rate	kW	$ -	$ -	$ -

		Historical 2016	Current 2017	Forecast 2018
Low Voltage Switchgear Credit (if applicable, enter as a negative value)	$			

INCENTIVE REGULATION MODEL FOR 2019 FILERS

In the green shaded cells, enter billing detail for wholesale transmission for the same reporting period as the billing determinants on Tab 10. For Hydro One Sub-transmission Rates, if you are charged a combined Line and Transformer connection rate, please ensure that both the Line Connection and Transformation Connection columns are completed.
If any of the Hydro One Sub-transmission rates (column E, I and M) are highlighted in orange, please double check the billing data entered in "Units Billed" and "Amount" columns. The highlighted rates do not match the Hydro One Sub-transmission rates approved for that time period. If data has been entered correctly, please provide explanation for the discrepancy in rates.

IESO	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	1,066,849	$3.66	$ 3,904,667	1,156,551	$0.87	$ 1,006,199	329,702	$2.02	$ 665,998	$ 1,672,197
February	1,053,838	$3.66	$ 3,857,047	1,129,052	$0.87	$ 982,275	335,529	$2.02	$ 677,769	$ 1,660,044
March	1,010,169	$3.66	$ 3,697,219	1,124,819	$0.87	$ 978,593	331,290	$2.02	$ 669,206	$ 1,647,798
April	962,258	$3.66	$ 3,521,864	1,112,110	$0.87	$ 967,535	310,388	$2.02	$ 626,984	$ 1,594,519
May	1,098,637	$3.66	$ 4,021,011	1,184,997	$0.87	$ 1,030,947	313,767	$2.02	$ 633,809	$ 1,664,757
June	1,409,080	$3.66	$ 5,157,233	1,476,302	$0.87	$ 1,284,383	399,418	$2.02	$ 806,824	$ 2,091,207
July	1,376,230	$3.66	$ 5,037,002	1,480,925	$0.87	$ 1,288,405	428,209	$2.02	$ 864,982	$ 2,153,387
August	1,311,641	$3.66	$ 4,800,606	1,384,781	$0.87	$ 1,204,759	378,890	$2.02	$ 765,358	$ 1,970,117
September	1,455,726	$3.66	$ 5,327,957	1,572,377	$0.87	$ 1,367,968	438,756	$2.02	$ 886,287	$ 2,254,255
October	995,514	$3.66	$ 3,643,581	1,109,430	$0.87	$ 965,204	320,153	$2.02	$ 646,709	$ 1,611,913
November	552,445	$3.52	$ 1,944,608	1,256,759	$0.88	$ 1,105,948	491,987	$2.13	$ 1,047,932	$ 2,153,879
December	1,595,612	$3.52	$ 5,616,553	1,076,393	$0.88	$ 947,226	155,119	$2.13	$ 330,404	$ 1,277,630
Total	13,887,999	$ 3.64	$ 50,529,348	15,064,496	$ 0.87	$ 13,129,443	4,233,208	$ 2.04	$ 8,622,262	$ 21,751,705

Hydro One	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	196,127	$3.19	$ 626,468	196,968	$0.77	$ 151,862	196,968	$1.75	$ 344,556	$ 496,419
February	210,599	$3.19	$ 672,696	210,657	$0.77	$ 162,416	210,657	$1.75	$ 368,502	$ 530,918
March	203,822	$3.19	$ 651,049	206,790	$0.77	$ 159,435	206,790	$1.75	$ 361,738	$ 521,173
April	177,737	$3.19	$ 567,729	182,339	$0.77	$ 140,584	182,339	$1.75	$ 318,966	$ 459,550
May	201,742	$3.19	$ 644,403	201,742	$0.77	$ 155,543	201,742	$1.75	$ 352,907	$ 508,450
June	244,196	$3.19	$ 780,011	244,209	$0.77	$ 188,286	244,209	$1.75	$ 427,196	$ 615,481
July	265,074	$3.19	$ 846,700	265,074	$0.77	$ 204,372	265,074	$1.75	$ 463,694	$ 668,067
August	256,022	$3.19	$ 817,785	256,022	$0.77	$ 197,393	256,022	$1.75	$ 447,859	$ 645,252
September	260,454	$3.19	$ 831,942	260,593	$0.77	$ 200,917	260,593	$1.75	$ 455,855	$ 656,772
October	202,223	$3.19	$ 645,941	202,345	$0.77	$ 156,008	202,345	$1.75	$ 353,962	$ 509,970
November	210,643	$3.19	$ 672,835	210,781	$0.77	$ 162,512	210,781	$1.75	$ 368,719	$ 531,232
December	227,782	$3.19	$ 727,581	227,884	$0.77	$ 175,699	227,884	$1.75	$ 398,638	$ 574,337
Total	2,656,421	$ 3.19	$ 8,485,139	2,665,404	$ 0.77	$ 2,055,027	2,665,404	$ 1.75	$ 4,662,592	$ 6,717,619

Total	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	1,262,976	$3.59	$ 4,531,135	1,353,519	$0.86	$ 1,158,062	526,670	$1.92	$ 1,010,554	$ 2,168,616
February	1,264,437	$3.58	$ 4,529,743	1,339,709	$0.85	$ 1,144,691	546,186	$1.92	$ 1,046,270	$ 2,190,962
March	1,213,991	$3.58	$ 4,348,268	1,331,609	$0.85	$ 1,138,028	538,080	$1.92	$ 1,030,944	$ 2,168,972
April	1,139,995	$3.59	$ 4,089,593	1,294,449	$0.86	$ 1,108,119	492,727	$1.92	$ 945,950	$ 2,054,069
May	1,300,379	$3.59	$ 4,665,415	1,386,739	$0.86	$ 1,186,490	515,509	$1.91	$ 986,716	$ 2,173,206
June	1,653,276	$3.59	$ 5,937,244	1,720,511	$0.86	$ 1,472,668	643,627	$1.92	$ 1,234,020	$ 2,706,688
July	1,641,304	$3.58	$ 5,883,702	1,745,999	$0.85	$ 1,492,777	693,283	$1.92	$ 1,328,677	$ 2,821,454
August	1,567,663	$3.58	$ 5,618,391	1,640,803	$0.85	$ 1,402,152	634,912	$1.91	$ 1,213,217	$ 2,615,369
September	1,716,180	$3.59	$ 6,159,899	1,832,970	$0.86	$ 1,568,885	699,349	$1.92	$ 1,342,142	$ 2,911,027
October	1,197,737	$3.58	$ 4,289,522	1,311,775	$0.85	$ 1,121,212	522,498	$1.92	$ 1,000,671	$ 2,121,883
November	763,088	$3.43	$ 2,617,443	1,467,540	$0.86	$ 1,268,460	702,768	$2.02	$ 1,416,651	$ 2,685,111
December	1,823,393	$3.48	$ 6,344,133	1,304,278	$0.86	$ 1,122,925	383,004	$1.90	$ 729,042	$ 1,851,967
Total	16,544,420	$ 3.57	$ 59,014,488	17,729,900	$ 0.86	$ 15,184,470	6,898,612	$ 1.93	$ 13,284,854	$ 28,469,323

Low Voltage Switchgear Credit (if applicable)	$ -
Total including deduction for Low Voltage Switchgear Credit	$ 28,469,323

INCENTIVE REGULATION MODEL FOR 2019 FILERS

The purpose of this sheet is to calculate the expected billing when current 2018 Uniform Transmission Rates are applied against historical 2017 transmission units.

IESO	Network			Line Connection			Transformation Connection			Total Line
Month	**Units Billed**	**Rate**	**Amount**	**Units Billed**	**Rate**	**Amount**	**Units Billed**	**Rate**	**Amount**	**Amount**
January	1,066,849	$ 3.6100	$ 3,851,325	1,156,551	$ 0.9500	$ 1,098,723	329,702	$ 2.3400	$ 771,503	$ 1,870,226
February	1,053,838	$ 3.6100	$ 3,804,355	1,129,052	$ 0.9500	$ 1,072,599	335,529	$ 2.3400	$ 785,138	$ 1,857,737
March	1,010,169	$ 3.6100	$ 3,646,710	1,124,819	$ 0.9500	$ 1,068,578	331,290	$ 2.3400	$ 775,219	$ 1,843,797
April	962,258	$ 3.6100	$ 3,473,751	1,112,110	$ 0.9500	$ 1,056,504	310,388	$ 2.3400	$ 726,308	$ 1,782,812
May	1,098,637	$ 3.6100	$ 3,966,080	1,184,997	$ 0.9500	$ 1,125,747	313,767	$ 2.3400	$ 734,215	$ 1,859,962
June	1,409,080	$ 3.6100	$ 5,086,779	1,476,302	$ 0.9500	$ 1,402,487	399,418	$ 2.3400	$ 934,638	$ 2,337,125
July	1,376,230	$ 3.6100	$ 4,968,190	1,480,925	$ 0.9500	$ 1,406,879	428,209	$ 2.3400	$ 1,002,009	$ 2,408,888
August	1,311,641	$ 3.6100	$ 4,735,024	1,384,781	$ 0.9500	$ 1,315,542	378,890	$ 2.3400	$ 886,603	$ 2,202,145
September	1,455,726	$ 3.6100	$ 5,255,171	1,572,377	$ 0.9500	$ 1,493,758	438,756	$ 2.3400	$ 1,026,689	$ 2,520,447
October	995,514	$ 3.6100	$ 3,593,806	1,109,430	$ 0.9500	$ 1,053,959	320,153	$ 2.3400	$ 749,158	$ 1,803,117
November	552,445	$ 3.6100	$ 1,994,328	1,256,759	$ 0.9500	$ 1,193,921	491,987	$ 2.3400	$ 1,151,249	$ 2,345,170
December	1,595,612	$ 3.6100	$ 5,760,158	1,076,393	$ 0.9500	$ 1,022,574	155,119	$ 2.3400	$ 362,979	$ 1,385,553
Total	13,887,999	$ 3.61	$ 50,135,676	15,064,496	$ 0.95	$ 14,311,271	4,233,208	$ 2.34	$ 9,905,707	$ 24,216,978

Hydro One	Network			Line Connection			Transformation Connection			Total Line
Month	**Units Billed**	**Rate**	**Amount**	**Units Billed**	**Rate**	**Amount**	**Units Billed**	**Rate**	**Amount**	**Amount**
January	196,127	$ 3.1942	$ 626,468	196,968	$ 0.7710	$ 151,862	196,968	$ 1.7493	$ 344,556	$ 496,419
February	210,599	$ 3.1942	$ 672,696	210,657	$ 0.7710	$ 162,416	210,657	$ 1.7493	$ 368,502	$ 530,918
March	203,822	$ 3.1942	$ 651,049	206,790	$ 0.7710	$ 159,435	206,790	$ 1.7493	$ 361,738	$ 521,173
April	177,737	$ 3.1942	$ 567,729	182,339	$ 0.7710	$ 140,584	182,339	$ 1.7493	$ 318,966	$ 459,550
May	201,742	$ 3.1942	$ 644,403	201,742	$ 0.7710	$ 155,543	201,742	$ 1.7493	$ 352,907	$ 508,450
June	244,196	$ 3.1942	$ 780,011	244,209	$ 0.7710	$ 188,286	244,209	$ 1.7493	$ 427,196	$ 615,481
July	265,074	$ 3.1942	$ 846,700	265,074	$ 0.7710	$ 204,372	265,074	$ 1.7493	$ 463,694	$ 668,067
August	256,022	$ 3.1942	$ 817,785	256,022	$ 0.7710	$ 197,393	256,022	$ 1.7493	$ 447,859	$ 645,252
September	260,454	$ 3.1942	$ 831,942	260,593	$ 0.7710	$ 200,917	260,593	$ 1.7493	$ 455,855	$ 656,772
October	202,223	$ 3.1942	$ 645,941	202,345	$ 0.7710	$ 156,008	202,345	$ 1.7493	$ 353,962	$ 509,970
November	210,643	$ 3.1942	$ 672,835	210,781	$ 0.7710	$ 162,512	210,781	$ 1.7493	$ 368,719	$ 531,232
December	227,782	$ 3.1942	$ 727,581	227,884	$ 0.7710	$ 175,699	227,884	$ 1.7493	$ 398,638	$ 574,337
Total	2,656,421	$ 3.19	$ 8,485,139	2,665,404	$ 0.77	$ 2,055,027	2,665,404	$ 1.75	$ 4,662,592	$ 6,717,619

Total	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	1,262,976	$ 3.5454	$ 4,477,793	1,353,519	$ 0.9240	$ 1,250,586	526,670	$ 2.1191	$ 1,116,059	$ 2,366,645
February	1,264,437	$ 3.5407	$ 4,477,051	1,339,709	$ 0.9219	$ 1,235,016	546,186	$ 2.1122	$ 1,153,639	$ 2,388,655
March	1,213,991	$ 3.5402	$ 4,297,759	1,331,609	$ 0.9222	$ 1,228,013	538,080	$ 2.1130	$ 1,136,957	$ 2,364,970
April	1,139,995	$ 3.5452	$ 4,041,480	1,294,449	$ 0.9248	$ 1,197,088	492,727	$ 2.1214	$ 1,045,274	$ 2,242,362
May	1,300,379	$ 3.5455	$ 4,610,483	1,386,739	$ 0.9240	$ 1,281,290	515,509	$ 2.1088	$ 1,087,121	$ 2,368,411
June	1,653,276	$ 3.5486	$ 5,866,790	1,720,511	$ 0.9246	$ 1,590,772	643,627	$ 2.1159	$ 1,361,834	$ 2,952,606
July	1,641,304	$ 3.5428	$ 5,814,890	1,745,999	$ 0.9228	$ 1,611,251	693,283	$ 2.1141	$ 1,465,703	$ 3,076,954
August	1,567,663	$ 3.5421	$ 5,552,809	1,640,803	$ 0.9221	$ 1,512,935	634,912	$ 2.1018	$ 1,334,461	$ 2,847,396
September	1,716,180	$ 3.5469	$ 6,087,113	1,832,970	$ 0.9246	$ 1,694,675	699,349	$ 2.1199	$ 1,482,544	$ 3,177,219
October	1,197,737	$ 3.5398	$ 4,239,746	1,311,775	$ 0.9224	$ 1,209,967	522,498	$ 2.1112	$ 1,103,120	$ 2,313,087
November	763,088	$ 3.4952	$ 2,667,163	1,467,540	$ 0.9243	$ 1,356,433	702,768	$ 2.1628	$ 1,519,968	$ 2,876,401
December	1,823,393	$ 3.5581	$ 6,487,738	1,304,278	$ 0.9187	$ 1,198,272	383,004	$ 1.9885	$ 761,617	$ 1,959,889
Total	16,544,420	$ 3.54	$ 58,620,816	17,729,900	$ 0.92	$ 16,366,298	6,898,612	$ 2.11	$ 14,568,299	$ 30,934,596

Low Voltage Switchgear Credit (if applicable)	$ -
Total including deduction for Low Voltage Switchgear Credit	$ 30,934,596

INCENTIVE REGULATION MODEL FOR 2019 FILERS

The purpose of this sheet is to calculate the expected billing when forecasted 2019 Uniform Transmission Rates are applied against historical 2017 transmission units.

IESO	Network			Line Connection			Transformation Connection			Total Line
Month	**Units Billed**	**Rate**	**Amount**	**Units Billed**	**Rate**	**Amount**	**Units Billed**	**Rate**	**Amount**	**Amount**
January	1,066,849	$ 3.6100	$ 3,851,325	1,156,551	$ 0.9500	$ 1,098,723	329,702	$ 2.3400	$ 771,503	$ 1,870,226
February	1,053,838	$ 3.6100	$ 3,804,355	1,129,052	$ 0.9500	$ 1,072,599	335,529	$ 2.3400	$ 785,138	$ 1,857,737
March	1,010,169	$ 3.6100	$ 3,646,710	1,124,819	$ 0.9500	$ 1,068,578	331,290	$ 2.3400	$ 775,219	$ 1,843,797
April	962,258	$ 3.6100	$ 3,473,751	1,112,110	$ 0.9500	$ 1,056,504	310,388	$ 2.3400	$ 726,308	$ 1,782,812
May	1,098,637	$ 3.6100	$ 3,966,080	1,184,997	$ 0.9500	$ 1,125,747	313,767	$ 2.3400	$ 734,215	$ 1,859,962
June	1,409,080	$ 3.6100	$ 5,086,779	1,476,302	$ 0.9500	$ 1,402,487	399,418	$ 2.3400	$ 934,638	$ 2,337,125
July	1,376,230	$ 3.6100	$ 4,968,190	1,480,925	$ 0.9500	$ 1,406,879	428,209	$ 2.3400	$ 1,002,009	$ 2,408,888
August	1,311,641	$ 3.6100	$ 4,735,024	1,384,781	$ 0.9500	$ 1,315,542	378,890	$ 2.3400	$ 886,603	$ 2,202,145
September	1,455,726	$ 3.6100	$ 5,255,171	1,572,377	$ 0.9500	$ 1,493,758	438,756	$ 2.3400	$ 1,026,689	$ 2,520,447
October	995,514	$ 3.6100	$ 3,593,806	1,109,430	$ 0.9500	$ 1,053,959	320,153	$ 2.3400	$ 749,158	$ 1,803,117
November	552,445	$ 3.6100	$ 1,994,328	1,256,759	$ 0.9500	$ 1,193,921	491,987	$ 2.3400	$ 1,151,249	$ 2,345,170
December	1,595,612	$ 3.6100	$ 5,760,158	1,076,393	$ 0.9500	$ 1,022,574	155,119	$ 2.3400	$ 362,979	$ 1,385,553
Total	13,887,999	$ 3.61	$ 50,135,676	15,064,496	$ 0.95	$ 14,311,271	4,233,208	$ 2.34	$ 9,905,707	$ 24,216,978

Hydro One	Network			Line Connection			Transformation Connection			Total Line
Month	**Units Billed**	**Rate**	**Amount**	**Units Billed**	**Rate**	**Amount**	**Units Billed**	**Rate**	**Amount**	**Amount**
January	196,127	$ 3.1942	$ 626,468	196,968	$ 0.7710	$ 151,862	196,968	$ 1.7493	$ 344,556	$ 496,419
February	210,599	$ 3.1942	$ 672,696	210,657	$ 0.7710	$ 162,416	210,657	$ 1.7493	$ 368,502	$ 530,918
March	203,822	$ 3.1942	$ 651,049	206,790	$ 0.7710	$ 159,435	206,790	$ 1.7493	$ 361,738	$ 521,173
April	177,737	$ 3.1942	$ 567,729	182,339	$ 0.7710	$ 140,584	182,339	$ 1.7493	$ 318,966	$ 459,550
May	201,742	$ 3.1942	$ 644,403	201,742	$ 0.7710	$ 155,543	201,742	$ 1.7493	$ 352,907	$ 508,450
June	244,196	$ 3.1942	$ 780,011	244,209	$ 0.7710	$ 188,286	244,209	$ 1.7493	$ 427,196	$ 615,481
July	265,074	$ 3.1942	$ 846,700	265,074	$ 0.7710	$ 204,372	265,074	$ 1.7493	$ 463,694	$ 668,067
August	256,022	$ 3.1942	$ 817,785	256,022	$ 0.7710	$ 197,393	256,022	$ 1.7493	$ 447,859	$ 645,252
September	260,454	$ 3.1942	$ 831,942	260,593	$ 0.7710	$ 200,917	260,593	$ 1.7493	$ 455,855	$ 656,772
October	202,223	$ 3.1942	$ 645,941	202,345	$ 0.7710	$ 156,008	202,345	$ 1.7493	$ 353,962	$ 509,970
November	210,643	$ 3.1942	$ 672,835	210,781	$ 0.7710	$ 162,512	210,781	$ 1.7493	$ 368,719	$ 531,232
December	227,782	$ 3.1942	$ 727,581	227,884	$ 0.7710	$ 175,699	227,884	$ 1.7493	$ 398,638	$ 574,337
Total	2,656,421	$ 3.19	$ 8,485,139	2,665,404	$ 0.77	$ 2,055,027	2,665,404	$ 1.75	$ 4,662,592	$ 6,717,619

Total	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	1,262,976	$ 3.55	$ 4,477,793	1,353,519	$ 0.92	$ 1,250,586	526,670	$ 2.12	$ 1,116,059	$ 2,366,645
February	1,264,437	$ 3.54	$ 4,477,051	1,339,709	$ 0.92	$ 1,235,016	546,186	$ 2.11	$ 1,153,639	$ 2,388,655
March	1,213,991	$ 3.54	$ 4,297,759	1,331,609	$ 0.92	$ 1,228,013	538,080	$ 2.11	$ 1,136,957	$ 2,364,970
April	1,139,995	$ 3.55	$ 4,041,480	1,294,449	$ 0.92	$ 1,197,088	492,727	$ 2.12	$ 1,045,274	$ 2,242,362
May	1,300,379	$ 3.55	$ 4,610,483	1,386,739	$ 0.92	$ 1,281,290	515,509	$ 2.11	$ 1,087,121	$ 2,368,411
June	1,653,276	$ 3.55	$ 5,866,790	1,720,511	$ 0.92	$ 1,590,772	643,627	$ 2.12	$ 1,361,834	$ 2,952,606
July	1,641,304	$ 3.54	$ 5,814,890	1,745,999	$ 0.92	$ 1,611,251	693,283	$ 2.11	$ 1,465,703	$ 3,076,954
August	1,567,663	$ 3.54	$ 5,552,809	1,640,803	$ 0.92	$ 1,512,935	634,912	$ 2.10	$ 1,334,461	$ 2,847,396
September	1,716,180	$ 3.55	$ 6,087,113	1,832,970	$ 0.92	$ 1,694,675	699,349	$ 2.12	$ 1,482,544	$ 3,177,219
October	1,197,737	$ 3.54	$ 4,239,746	1,311,775	$ 0.92	$ 1,209,967	522,498	$ 2.11	$ 1,103,120	$ 2,313,087
November	763,088	$ 3.50	$ 2,667,163	1,467,540	$ 0.92	$ 1,356,433	702,768	$ 2.16	$ 1,519,968	$ 2,876,401
December	1,823,393	$ 3.56	$ 6,487,738	1,304,278	$ 0.92	$ 1,198,272	383,004	$ 1.99	$ 761,617	$ 1,959,889
Total	16,544,420	$ 3.54	$ 58,620,816	17,729,900	$ 0.92	$ 16,366,298	6,898,612	$ 2.11	$ 14,568,299	$ 30,934,596
							Low Voltage Switchgear Credit (if applicable)			$ -
							Total including deduction for Low Voltage Switchgear Credit			$ 30,934,596

INCENTIVE REGULATION MODEL FOR 2019 FILERS

The purpose of this table is to re-align the current RTS Network Rates to recover current wholesale network costs.

Rate Class	Rate Description	Unit	Current RTSR-Network	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Current Wholesale Billing	Adjusted RTSR Network
RESIDENTIAL SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kWh	0.0075	2,638,615,406	0	19,789,616	33.0%	19,338,534	0.0073
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kWh	0.0067	1,043,088,282	0	6,988,691	11.7%	6,829,392	0.0065
GENERAL SERVICE GREATER THAN 50 kW SERVICE CLASSIFICATI	Retail Transmission Rate – Network Service Rate	$/kW	2.6739	2,543,436,223	6,379,894	17,059,199	28.4%	16,670,354	2.6130
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate – Interval Metered	$/kW	2.8030	2,194,370,879	5,504,307	15,428,573	25.7%	15,076,896	2.7391
LARGE USE SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kW	3.2305	52,537,537	78,983	255,154	0.4%	249,338	3.1569
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kWh	0.0063	14,122,760	0	88,973	0.1%	86,945	0.0062
SENTINEL LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kW	2.0778	308,097	780	1,620	0.0%	1,583	2.0304
STREET LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kW	2.6888	52,178,252	139,971	376,353	0.6%	367,775	2.6275

The purpose of this table is to re-align the current RTS Connection Rates to recover current wholesale connection costs.

Rate Class	Rate Description	Unit	Current RTSR-Connection	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Current Wholesale Billing	Adjusted RTSR-Connection
RESIDENTIAL SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kWh	0.0040	2,638,615,406	0	10,554,462	33.9%	10,490,119	0.0040
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kWh	0.0035	1,043,088,282	0	3,650,809	11.7%	3,628,553	0.0035
GENERAL SERVICE GREATER THAN 50 kW SERVICE CLASSIFICATI	Retail Transmission Rate – Line and Transformation Connection Service I	$/kW	1.3420	2,543,436,223	6,379,894	8,561,818	27.5%	8,509,623	1.3338
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kW	1.4520	2,194,370,879	5,504,307	7,992,254	25.7%	7,943,531	1.4431
LARGE USE SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kW	1.4016	52,537,537	78,983	110,702	0.4%	110,027	1.3931
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kWh	0.0037	14,122,760	0	52,254	0.2%	51,936	0.0037
SENTINEL LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kW	0.9929	308,097	780	774	0.0%	769	0.9869
STREET LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kW	1.4379	52,178,252	139,971	201,264	0.6%	200,037	1.4291

The purpose of this table is to update the re-aligned RTS Network Rates to recover future wholesale network costs.

Rate Class	Rate Description	Unit	Adjusted RTSR-Network	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Current Wholesale Billing	Proposed RTSR-Network
RESIDENTIAL SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kWh	0.0073	2,638,615,406	0	19,338,534	33.0%	19,338,534	**0.0073**
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kWh	0.0065	1,043,088,282	0	6,829,392	11.7%	6,829,392	**0.0065**
GENERAL SERVICE GREATER THAN 50 kW SERVICE CLASSIFICATI	Retail Transmission Rate – Network Service Rate	$/kW	2.6130	2,543,436,223	6,379,894	16,670,354	28.4%	16,670,354	**2.6130**
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate – Interval Metered	$/kW	2.7391	2,194,370,879	5,504,307	15,076,896	25.7%	15,076,896	**2.7391**
LARGE USE SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kW	3.1569	52,537,537	78,983	249,338	0.4%	249,338	**3.1569**
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kWh	0.0062	14,122,760	0	86,945	0.1%	86,945	**0.0062**
SENTINEL LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kW	2.0304	308,097	780	1,583	0.0%	1,583	**2.0304**
STREET LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kW	2.6275	52,178,252	139,971	367,775	0.6%	367,775	**2.6275**

The purpose of this table is to update the re-aligned RTS Connection Rates to recover future wholesale connection costs.

Rate Class	Rate Description	Unit	Adjusted RTSR-Connection	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Current Wholesale Billing	Proposed RTSR-Connection
RESIDENTIAL SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kWh	0.0040	2,638,615,406	0	10,490,119	33.9%	10,490,119	**0.0040**
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kWh	0.0035	1,043,088,282	0	3,628,553	11.7%	3,628,553	**0.0035**
GENERAL SERVICE GREATER THAN 50 kW SERVICE CLASSIFICATI	Retail Transmission Rate – Line and Transformation Connection Service I	$/kW	1.3338	2,543,436,223	6,379,894	8,509,623	27.5%	8,509,623	**1.3338**
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kW	1.4431	2,194,370,879	5,504,307	7,943,531	25.7%	7,943,531	**1.4431**
LARGE USE SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kW	1.3931	52,537,537	78,983	110,027	0.4%	110,027	**1.3931**
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kWh	0.0037	14,122,760	0	51,936	0.2%	51,936	**0.0037**
SENTINEL LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kW	0.9869	308,097	780	769	0.0%	769	**0.9869**
STREET LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kW	1.4291	52,178,252	139,971	200,037	0.6%	200,037	**1.4291**

INCENTIVE REGULATION MODEL FOR 2019 FILERS

If applicable, please enter any adjustments related to the revenue to cost ratio model into columns C and E. The Price Escalator and Stretch Factor have been set at the 2016 values and will be updated by OEB staff at a later date.

Price Escalator	**1.20%**	**Productivity Factor**	**0.00%**	**# of Residential Customers (approved in the last CoS)**	331,461	**Effective Year of Residential Rate Design Transition (yyyy)**	2017
Choose Stretch Factor Group	III	**Price Cap Index**	**0.90%**	**Billed kWh for Residential Class (approved in the last CoS)**	2,689,802,037	**OEB-approved # of Transition Years**	4
Associated Stretch Factor Value	**0.30%**			**Rate Design Transition Years Left**	**2**		

Rate Class	**Current MFC**	**MFC Adjustment from R/C Model**	**Current Volumetric Charge**	**DVR Adjustment from R/C Model**	**Price Cap Index to be Applied to MFC and DVR**	**Proposed MFC**	**Proposed Volumetric Charge**
RESIDENTIAL SERVICE CLASSIFICATION	21.63		0.0088		0.90%	24.83	0.0044
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	29.00		0.0185		0.90%	29.26	0.0187
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	142.24		4.2415		0.90%	143.52	4.2797
LARGE USE SERVICE CLASSIFICATION	6128.34		2.2623		0.90%	6,183.50	2.2827
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	8.68		0.0197		0.90%	8.76	0.0199
STANDBY POWER SERVICE CLASSIFICATION			2.8334		0.90%	0.00	2.8589
SENTINEL LIGHTING SERVICE CLASSIFICATION	4.23		9.9582		0.90%	4.27	10.0478
STREET LIGHTING SERVICE CLASSIFICATION	1.20		6.3791		0.90%	1.21	6.4365
microFIT SERVICE CLASSIFICATION						5.40	0.0000

Rate Design Transition		**Revenue from Rates**	**Current F/V Split**	**Decoupling MFC Split**	**Incremental Fixed Charge ($/month/year)**	**New F/V Split**	**Adjusted Rates[1]**	**Revenue at New F/V Split**
Current Residential Fixed Rate (inclusive of R/C adj.)	21.6300	86,033,996	78.4%	10.8%	2.98	89.2%	24.61	97,887,038
Current Residential Variable Rate (inclusive of R/C adj.)	0.0088	23,670,258	21.6%			10.8%	0.0044	11,835,129
		109,704,253						109,722,167

[1] These are the residential rates to which the Price Cap Index will be applied to.

INCENTIVE REGULATION MODEL FOR 2019 FILERS

Update the following rates if an OEB Decision has been issued at the time of completing this application

		Proposed
Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service - Administrative Charge (if applicable)	$	0.25

Time-of-Use RPP Prices

As of		May 1, 2018
Off-Peak	$/kWh	0.0650
Mid-Peak	$/kWh	0.0940
On-Peak	$/kWh	0.1320

INCENTIVE REGULATION MODEL FOR 2019 FILERS

In the Green Cells below, enter any proposed rate riders that are not already included in this model (e.g.: proposed ICM rate riders). Please note that existing SMIRR and SM Entity Charge do not need to be included below.
In column A, the rate rider descriptions must begin with "Rate Rider for".
In column B, choose the associated unit from the drop-down menu.
In column C, enter the rate. All rate riders with a "$" unit should be rounded to 2 decimal places and all others rounded to 4 decimal places.
In column E, enter the expiry date (e.g. April 30, 2018) or description of the expiry date in text (e.g. the effective date of the next cost of service-based rate order).
In column G, choose the sub-total as applicable in the bill impact calculation from the drop-down menu

RESIDENTIAL SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	0.20	- effective until	next COS	A
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances)	$/kWh	0.0003	- effective until	31-Dec-19	A
Rate Rider for Disposition of Capacity Based Recovery Account (2017) - Applicable only for Class B Customers	$/kWh	0.0000	- effective until	31-Dec-19	B
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

GS<50 SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	0.21	- effective until	next COS	A
Rate Rider for Incremental Capital Module (ICM)	$/kWh	0.0001	- effective until	next COS	A
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances)	$/kWh	0.0006	- effective until	31-Dec-19	A
Rate Rider for Disposition of Capacity Based Recovery Account (2017) - Applicable only for Class B Customers	$/kWh	0.0000	- effective until	31-Dec-19	B
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

GS>50 SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	1.05	- effective until	next COS	A
Rate Rider for Incremental Capital Module (ICM)	$/kW	0.0314	- effective until	next COS	A
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances)	$/kW	0.0886	- effective until	31-Dec-19	A
Rate Rider for Disposition of Capacity Based Recovery Account (2017) - Applicable only for Class B Customers	$/kW	-0.0046	- effective until	31-Dec-19	B
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

LARGE USER SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	45.37	- effective until	next COS	A
Rate Rider for Incremental Capital Module (ICM)	$/kW	0.0167	- effective until	next COS	A
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances)	$/kW	-0.0705	- effective until	31-Dec-19	A
Rate Rider for Disposition of Capacity Based Recovery Account (2017) - Applicable only for Class B Customers	$/kW	0.0000	- effective until	31-Dec-19	B
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	0.06	- effective until	next COS	A
Rate Rider for Incremental Capital Module (ICM)	$/kWh	0.0001	- effective until	next COS	A
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances)	$/kWh	-0.0003	- effective until	31-Dec-19	A
Rate Rider for Disposition of Capacity Based Recovery Account (2017) - Applicable only for Class B Customers	$/kWh	0.0000	- effective until	31-Dec-19	B
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

SENTINEL LIGHTING SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	0.03	- effective until	next COS	A
Rate Rider for Incremental Capital Module (ICM)	$/kW	0.0737	- effective until	next COS	A
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances)	$/kW	-0.2176	- effective until	31-Dec-19	A
Rate Rider for Disposition of Capacity Based Recovery Account (2017) - Applicable only for Class B Customers	$/kW	-0.0050	- effective until	31-Dec-19	B
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

STREET LIGHTING SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	0.01	- effective until	next COS	A
Rate Rider for Incremental Capital Module (ICM)	$/kW	0.0472	- effective until	next COS	A
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances)	$/kW	1.2612	- effective until	31-Dec-19	A
Rate Rider for Disposition of Capacity Based Recovery Account (2017) - Applicable only for Class B Customers	$/kW	-0.0047	- effective until	31-Dec-19	B
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

MICROFIT SERVICE CLASSIFICATION

			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

INCENTIVE REGULATION MODEL FOR 2019 FILERS

Alectra - PowerStream
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2019
Implementation Date January 1, 2019

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2018-0016

RESIDENTIAL SERVICE CLASSIFICATION

This classification refers to an account taking electricity at 750 volts or less where the electricity is used exclusively in a separately metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triplex or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. Multi-unit residential establishments such as apartment buildings supplied through one service (bulk metered) shall be classified as general service. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	24.83
Smart Metering Entity Charge - effective until December 31, 2022	$	0.57
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$	0.11
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$	0.20
Distribution Volumetric Rate	$/kWh	0.0044
Low Voltage Service Rate	$/kWh	0.0005
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019 Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable Only for Non-RPP Customers	$/kWh	0.0018
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kWh	(0.0030)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019	$/kWh	(0.0010)
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019 Applicable Only for Class B Customers	$/kWh	0.0002
Retail Transmission Rate - Network Service Rate	$/kWh	0.0073
Retail Transmission Rate - Line and Transformation Connection Service Rate	$/kWh	0.0040

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra - PowerStream
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2019
Implementation Date January 1, 2019

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2018-0016

GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION

This classification refers to a non-residential account taking electricity at 750 volts or less wheose monthly average peak demand is less than, or is forecast to be less than, 50 kW. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	29.26
Smart Metering Entity Charge - effective until December 31, 2022	$	0.57
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$	0.12
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$	0.21
Distribution Volumetric Rate	$/kWh	0.0187
Low Voltage Service Rate	$/kWh	0.0004
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019 Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable Only for Non-RPP Customers	$/kWh	0.0018
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kWh	(0.0030)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019	$/kWh	(0.0009)
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019 Applicable Only for Class B Customers	$/kWh	0.0002
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective until April 30, 2019	$/kWh	0.0009
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kWh	0.0006
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$/kWh	0.0001
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$/kWh	0.0001
Retail Transmission Rate – Network Service Rate	$/kWh	0.0065
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0035

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra - PowerStream
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2019
Implementation Date January 1, 2019

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2018-0016

GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION

This classification refers to a non-residential account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 5,000 kW, both regular and interval metered. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

or the disposition of WMS – Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their riance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In te rider is applicable to all new Class B customers.

or the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP customers that transitioned between Class A and the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their riance disposed through customer specific billing adjustments. This rate order is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	143.52
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$	0.57
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$	1.05
Distribution Volumetric Rate	$/kW	4.2797
Low Voltage Service Rate	$/kW	0.1589
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019 Applicable only for Non-RPP Customers	$/kwh	0.0004
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable Only for Non-RPP Customers non-Interval Metered	$/kWh	0.0018
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kW	0.0184
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019	$/kW	(0.2953)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019 Applicable only for Non-Wholesale Market Pa	$/kW	(1.1367)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 Applicable only for Non-Wholesale Market Participants	$/kW	(0.0453)
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019 Applicable Only for Class B Customers	$/kW	0.0905
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable Only for Class B Customers	$/kW	(0.0046)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective until April 30, 2019	$/kW	0.0796
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kW	0.0886
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$/kW	0.0168
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$/kW	0.0314
Retail Transmission Rate – Network Service Rate	$/kW	2.6130
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.3338
Retail Transmission Rate – Network Service Rate – Interval Metered	$/kW	2.7391
Retail Transmission Rate – Line and Transformation Connection Service Rate – Interval Metered	$/kW	1.4431

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra - PowerStream
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2019
Implementation Date January 1, 2019

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2018-0016

LARGE USE SERVICE CLASSIFICATION

This classification refers to an account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

or the disposition of WMS – Sub-account CBR Class B is not applicable to wholesale market participants (WMP), customers that transitioned between Class A and the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their riance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In ite rider is applicable to all new Class B customers.

or the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP customers that transitioned between Class A and the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their riance disposed through customer specific billing adjustments. This rate order is applicable to all new non-RPP Class B customers.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	6,183.50
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$	24.34
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$	45.37
Distribution Volumetric Rate	$/kW	2.2827
Low Voltage Service Rate	$/kW	0.1630
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kW	(1.3235)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019	$/kW	(0.5809)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective until April 30, 2019	$/kW	(0.0723)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kW	(0.0705)
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$/kW	0.0090
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$/kW	0.0167
Retail Transmission Rate – Network Service Rate	$/kW	3.1569
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.3931

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra - PowerStream
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2019
Implementation Date January 1, 2019

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2018-0016

STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that has Load Displacement Generation and requires the distributor to provide back-up service. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component - APPROVED ON AN INTERIM BASIS

Standby Charge – for a month where standby power is not provided. The charge is applied to the contracted amount (e.g. nameplate rating of generation facility).	$/kW	2.8589

Alectra - PowerStream
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2019
Implementation Date January 1, 2019

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EB-2018-0016

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification refers to an account taking electricity at 750 volts or less whose average monthly peak demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The customer will provide detailed manufacturer information/documentation with regard to electrical demand/consumption of the proposed unmetered load. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	8.76
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$	0.03
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$	0.06
Distribution Volumetric Rate	$/kWh	0.0199
Low Voltage Service Rate	$/kWh	0.0005
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019 Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable Only for Non-RPP Customers	$/kWh	0.0018
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kWh	(0.0029)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019	$/kWh	(0.0009)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective until April 30, 2019	$/kWh	(0.0005)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kWh	(0.0003)
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019 Applicable Only for Class B Customers	$/kWh	0.0002
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$/kWh	0.0001
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$/kWh	0.0001
Retail Transmission Rate – Network Service Rate	$/kWh	0.0062
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0037

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra - PowerStream
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2019
Implementation Date January 1, 2019

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2018-0016

SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to an unmetered lighting load supplied to a sentinel light. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per Connection)	$	4.27
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$	0.02
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$	0.03
Distribution Volumetric Rate	$/kW	10.0478
Low Voltage Service Rate	$/kW	0.1170
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019 Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable Only for Non-RPP Customers	$/kWh	0.0018
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kW	(1.0740)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019	$/kW	(0.3377)
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019 Applicable Only for Class B Customers	$/kW	0.0895
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable Only for Class B Customers	$/kW	(0.0050)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective until April 30, 2019	$/kW	(0.3850)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kW	(0.2176)
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$/kW	0.0396
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$/kW	0.0737
Retail Transmission Rate – Network Service Rate	$/kW	2.0304
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	0.9869

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra - PowerStream
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2019
Implementation Date January 1, 2019

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2018-0016

STREET LIGHTING SERVICE CLASSIFICATION

This classification applies to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting operation, controlled by photo cells. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved Ontario Energy Board street lighting load shape template. Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per Connection)	$	1.21
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$	0.01
Distribution Volumetric Rate	$/kW	6.4365
Low Voltage Service Rate	$/kW	0.1288
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019 Applicable only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 Applicable Only for Non-RPP Customers	$/kWh	0.0018
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	$/kW	(1.0519)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019	$/kW	(0.3185)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective until April 30, 2019	$/kW	0.5854
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2019) - effective until December 31, 2019	$/kW	1.2612
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019 Applicable Only for Class B Customers	$/kW	0.0870
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019 Applicable Only for Class B Customers	$/kW	(0.0047)
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order	$/kW	0.0253
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of the next cost of service based rate order	$/kW	0.0472
Retail Transmission Rate – Network Service Rate	$/kW	2.6275
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.4291

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra - PowerStream
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2019
Implementation Date January 1, 2019

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EB-2018-0016

MicroFIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	5.40

ALLOWANCES

Transformer Allowance for Ownership - per kW of billing demand/month	$/kW	(0.60)
Primary Metering Allowance for Transformer Losses - applied to measured demand & energy	%	(1.00)

SPECIFIC SERVICE CHARGES

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

Customer Administration

Arrears certificate	$	15.00
Statement of account	$	15.00
Duplicate invoices for previous billing	$	15.00
Request for other billing information	$	15.00
Easement Letter	$	15.00
Income tax letter	$	15.00
Account history	$	15.00
Returned Cheque (plus bank charges)	$	15.00
Legal letter charge	$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	$	30.00
Special meter reads	$	30.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	$	30.00

Non-Payment of Account

Late Payment - per month	%	1.50
Late Payment - per annum	%	19.56
Collection of account charge - no disconnection	$	30.00
Disconnect/Reconnect at Meter - during regular hours	$	65.00
Disconnect/Reconnect at Meter - after regular hours	$	185.00

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EB-2018-0016

Other

Install/Remove Load Control Device - during regular hours	$	65.00
Install/Remove Load Control Device - after regular hours	$	185.00
Disconnect/Reconnect at Meter - during regular hours	$	65.00
Disconnect/Reconnect at Meter - after regular hours	$	185.00
Disconnect/Reconnect at Pole - during regular hours	$	185.00
Disconnect/Reconnect at Pole - after regular hours	$	415.00
e for Access to the Power Poles - $/pole/year (with the exception of wireless attachments) - in effect from January 1, 2019	$	43.63
Temporary Service install and remove - overhead - no transformer	$	500.00

RETAIL SERVICE CHARGES (if applicable)

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity.

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	$	100.00
Monthly Fixed Charge, per retailer	$	20.00
Monthly Variable Charge, per customer, per retailer	$/cust.	0.50
Distributor-consolidated billing monthly charge, per customer, per retailer	$/cust.	0.30
Retailer-consolidated billing monthly credit, per customer, per retailer	$/cust.	(0.30)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	$	0.25
Processing fee, per request, applied to the requesting party	$	0.50
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail Settlement Code directly to retailers and customers, if not delivered electronically through the Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	$	no charge
More than twice a year, per request (plus incremental delivery costs)	$	2.00

LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing cycle.

Total Loss Factor - Secondary Metered Customer < 5,000 kW	1.0369
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0145
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0266
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0045

INCENTIVE REGULATION MODEL FOR 2019 FILERS

The bill comparisons below must be provided for typical customers and consumption levels. Bill impacts must be provided for residential customers consuming 750 kWh per month and general service customers consuming 2,000 kWh per month and having a monthly demand of less than 50 kW. Include bill comparisons for Non-RPP (retailer) as well. **To assess the combined effects of the shift to fixed rates and other bill impacts associated with changes in the cost of distribution service, applicants are to include a total bill impact for a residential customer at the distributor's 10th consumption percentile (In other words, 10% of a distributor's residential customers consume at or less than this level of consumption on a monthly basis). Refer to page 9 of the Filing Requirements For Electricity Distribution Rate Applications issued July 14, 2016.**

For certain classes where one or more customers have unique consumption and demand patterns and which may be significantly impacted by the proposed rate changes, the distributor must show a typical comparison, and provide an explanation.

Note:
1. For those classes that are not eligible for the RPP price, the weighted average price including Class B GA through end of February 2017 of $0.1058/kWh (IESO's Monthly Market Report for February 2017, page 22) has been used to represent the cost of power. For those classes on a retailer contract, applicants should enter the contract price (plus GA) for a more accurate estimate. Changes to the cost of power can be made directly on the bill impact table for the specific class.
2. Please enter the applicable billing determinant (e.g. number of connections or devices) to be applied to the monthly service charge for unmetered rate classes in column N. If the monthly service charge is applied on a per customer basis, enter the number "1". Distributors should provide the number of connections or devices reflective of a typical customer in each class.

Table 1

RATE CLASSES / CATEGORIES ***(eg: Residential TOU, Residential Retailer)***		**Units**	**RPP? Non-RPP Retailer? Non-RPP Other?**	**Current Loss Factor**	**Proposed Loss Factor**	**Consumption (kWh)**	**Demand kW (if applicable)**	**RTSR**	**Billing Determinant Applied to Fixed Charge for Unmetered Classes (e.g. # of devices/connections).**
RESIDENTIAL SERVICE CLASSIFICATION		**kWh**	RPP	1.0369	1.0369	750		**N/A**	
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION		**kWh**	RPP	1.0369	1.0369	2,000		**N/A**	
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION		**kW**	Non-RPP (Other)	1.0369	1.0369	80,000	250	**DEMAND**	
LARGE USE SERVICE CLASSIFICATION		**kW**	Non-RPP (Other)	1.0145	1.0145	2,800,000	7,350	**DEMAND**	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION		**kWh**	RPP	1.0369	1.0369	150		**N/A**	1
STANDBY POWER SERVICE CLASSIFICATION		**kW**						**N/A**	
SENTINEL LIGHTING SERVICE CLASSIFICATION		**kW**	RPP	1.0369	1.0369	180	1	**DEMAND**	1
STREET LIGHTING SERVICE CLASSIFICATION		**kW**	Non-RPP (Other)	1.0369	1.0369	280	1	**DEMAND**	1
RESIDENTIAL SERVICE CLASSIFICATION	*(10th consumptio*	**kWh**	RPP	1.0369	1.0369	309		**N/A**	
RESIDENTIAL SERVICE CLASSIFICATION	*(Retailer)*		Non-RPP (Retailer)	1.0369	1.0369	750		**N/A**	
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	*(Retailer)*		Non-RPP (Retailer)	1.0369	1.0369	2,000		**N/A**	
Add additional scenarios if required									
Add additional scenarios if required									
Add additional scenarios if required									
Add additional scenarios if required									
Add additional scenarios if required									
Add additional scenarios if required									
Add additional scenarios if required									
Add additional scenarios if required									

Table 2

RATE CLASSES / CATEGORIES *(eg: Residential TOU, Residential Retailer)*	Units	Sub-Total						Total	
		A		B		C		A + B + C	
		$	%	$	%	$	%	$	%
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kWh	$ 0.18	0.6%	$ (0.74)	-2.5%	$ (0.90)	-2.3%	$ (0.95)	-0.9%
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION - RPP	kWh	$ 1.87	2.7%	$ (0.54)	-0.8%	$ (0.95)	-1.0%	$ (15.70)	-5.4%
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ 37.66	3.1%	$ (501.34)	-30.5%	$ (518.61)	-19.6%	$ (1,218.83)	-8.9%
LARGE USE SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ (242.27)	-1.1%	$ (5,074.16)	-35.1%	$ (5,677.59)	-11.7%	$ (28,563.68)	-6.8%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION - RPP	kWh	$ 0.06	0.5%	$ (0.11)	-0.9%	$ (0.12)	-0.9%	$ (1.33)	-4.3%
STANDBY POWER SERVICE CLASSIFICATION -	kW	$ -	0.0%	$ -	0.0%	$ -	0.0%	$ -	0.0%
SENTINEL LIGHTING SERVICE CLASSIFICATION - RPP	kW	$ (0.02)	-0.2%	$ (2.82)	-17.6%	$ (2.88)	-15.1%	$ (4.67)	-11.5%
STREET LIGHTING SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ 1.38	16.8%	$ (0.71)	-6.6%	$ (0.78)	-5.2%	$ (3.10)	-5.8%
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kWh	$ 1.99	8.1%	$ 1.50	5.9%	$ 1.44	4.9%	$ 1.51	2.6%
RESIDENTIAL SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	$ 0.18	0.6%	$ (4.05)	-11.4%	$ (4.20)	-9.5%	$ (4.41)	-3.4%
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	$ 1.87	2.7%	$ (9.34)	-10.9%	$ (9.75)	-9.1%	$ (24.94)	-7.1%

Customer Class:	**RESIDENTIAL SERVICE CLASSIFICATION**
RPP / Non-RPP:	**RPP** — **Class B**
Consumption	**750** kWh
Demand	**-** kW
Current Loss Factor	**1.0369**
Proposed/Approved Loss Factor	**1.0369**

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 21.63	1	$ 21.63	$ 24.83	1	$ 24.83	$ 3.20	14.79%
Distribution Volumetric Rate	$ 0.0088	750	$ 6.60	$ 0.0044	750	$ 3.30	$ (3.30)	-50.00%
Fixed Rate Riders	$ 0.25	1	$ 0.25	$ 0.31	1	$ 0.31	$ 0.06	24.00%
Volumetric Rate Riders	$ -	750	$ -	$ 0.0003	750	$ 0.23	$ 0.23	
Sub-Total A (excluding pass through)			$ 28.48			$ 28.67	**$ 0.18**	**0.65%**
Line Losses on Cost of Power	$ 0.0820	28	$ 2.27	$ 0.0820	28	$ 2.27	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0028	750	$ (2.10)	-$ 0.0038	750	$ (2.85)	$ (0.75)	35.71%
GA Rate Riders								
Low Voltage Service Charge	$ 0.0005	750	$ 0.38	$ 0.0005	750	$ 0.38	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.75	1	$ 0.75	$ 0.57	1	$ 0.57	$ (0.18)	-24.00%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 29.77**			**$ 29.03**	**$ (0.74)**	**-2.50%**
RTSR - Network	$ 0.0075	778	$ 5.83	$ 0.0073	778	$ 5.68	$ (0.16)	-2.67%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0040	778	$ 3.11	$ 0.0040	778	$ 3.11	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 38.72**			**$ 37.82**	**$ (0.90)**	**-2.33%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	778	$ 2.80	$ 0.0036	778	$ 2.80	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	778	$ 0.23	$ 0.0003	778	$ 0.23	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)								
							$ -	
TOU - Off Peak	$ 0.0650	488	$ 31.69	$ 0.0650	488	$ 31.69	$ -	0.00%
TOU - Mid Peak	$ 0.0940	128	$ 11.99	$ 0.0940	128	$ 11.99	$ -	0.00%
TOU - On Peak	$ 0.1320	135	$ 17.82	$ 0.1320	135	$ 17.82	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1038	750	$ 77.85	$ 0.1038	750	$ 77.85	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1038	750	$ 77.85	$ 0.1038	750	$ 77.85	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 103.49**			**$ 102.59**	**$ (0.90)**	**-0.87%**
HST	13%		$ 13.45	13%		$ 13.34	$ (0.12)	-0.87%
Total Bill on TOU (before 8% Provincial Rebate)			**$ 116.95**			**$ 115.93**	**$ (1.02)**	-0.87%
8% Provincial Rebate	-8%		$ (8.28)	-8%		$ (8.21)	$ 0.07	-0.87%
Total Bill on TOU			**$ 108.67**			**$ 107.72**	**$ (0.95)**	**-0.87%**
Total Bill on Non-RPP Avg. Price			**$ 119.85**			**$ 118.95**	**$ (0.90)**	**-0.75%**

Customer Class:	GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION
RPP / Non-RPP:	RPP — Class B
Consumption	2,000 kWh
Demand	- kW
Current Loss Factor	1.0369
Proposed/Approved Loss Factor	1.0369

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 29.00	1	$ 29.00	$ 29.26	1	$ 29.26	$ 0.26	0.90%
Distribution Volumetric Rate	$ 0.0185	2000	$ 37.00	$ 0.0187	2000	$ 37.40	$ 0.40	1.08%
Fixed Rate Riders	$ 0.52	1	$ 0.52	$ 0.33	1	$ 0.33	$ (0.19)	-36.54%
Volumetric Rate Riders	$ 0.0010	2000	$ 2.00	$ 0.0017	2000	$ 3.40	$ 1.40	70.00%
Sub-Total A (excluding pass through)			$ 68.52			$ 70.39	**$ 1.87**	**2.73%**
Line Losses on Cost of Power	$ 0.0820	74	$ 6.05	$ 0.0820	74	$ 6.05	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0026	2,000	$ (5.20)	-$ 0.0037	2,000	$ (7.40)	$ (2.20)	42.31%
GA Rate Riders								
Low Voltage Service Charge	$ 0.0004	2,000	$ 0.80	$ 0.0004	2,000	$ 0.80	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.78	1	$ 0.78	$ 0.57	1	$ 0.57	$ (0.21)	-26.92%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 70.95**			**$ 70.41**	**$ (0.54)**	**-0.76%**
RTSR - Network	$ 0.0067	2,074	$ 13.89	$ 0.0065	2,074	$ 13.48	$ (0.41)	-2.99%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0035	2,074	$ 7.26	$ 0.0035	2,074	$ 7.26	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 92.10**			**$ 91.15**	**$ (0.95)**	**-1.04%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	2,074	$ 7.47	$ 0.0036	2,074	$ 7.47	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	2,074	$ 0.62	$ 0.0003	2,074	$ 0.62	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	2,000	$ 14.00	$ -	2,000	$ -	$ (14.00)	-100.00%
							$ -	
TOU - Off Peak	$ 0.0650	1,300	$ 84.50	$ 0.0650	1,300	$ 84.50	$ -	0.00%
TOU - Mid Peak	$ 0.0940	340	$ 31.96	$ 0.0940	340	$ 31.96	$ -	0.00%
TOU - On Peak	$ 0.1320	360	$ 47.52	$ 0.1320	360	$ 47.52	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1038	2,000	$ 207.60	$ 0.1038	2,000	$ 207.60	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1038	2,000	$ 207.60	$ 0.1038	2,000	$ 207.60	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 278.42**			**$ 263.47**	**$ (14.95)**	**-5.37%**
HST	13%		$ 36.19	13%		$ 34.25	$ (1.94)	-5.37%
Total Bill on TOU (before 8% Provincial Rebate)			$ 314.62			$ 297.72	$ (16.90)	-5.37%
8% Provincial Rebate	-8%		$ (22.27)	-8%		$ (21.08)	$ 1.20	-5.37%
Total Bill on TOU			**$ 292.34**			**$ 276.64**	**$ (15.70)**	**-5.37%**
Total Bill on Non-RPP Avg. Price			**$ 322.04**			**$ 307.09**	**$ (14.95)**	**-4.64%**
HST	13%		$ 41.87	13%		$ 39.92	$ (1.94)	-4.64%
Provincial Rebate	-8%		$ (25.76)	-8%		$ (24.57)	$ 1.20	-4.64%
Total Bill on Non-RPP Avg. Price			**$ 338.14**			**$ 322.44**	**$ (15.70)**	**-4.64%**
Total Bill on Average IESO Wholesale Market Price			**$ 322.04**			**$ 307.09**	**$ (14.95)**	**-4.64%**
HST	13%		$ 41.87	13%		$ 39.92	$ (1.94)	-4.64%
Provincial Rebate	-8%		$ (25.76)	-8%		$ (24.57)	$ 1.20	-4.64%
Total Bill on Average IESO Wholesale Market Price			**$ 338.14**			**$ 322.44**	**$ (15.70)**	**-4.64%**

Customer Class:	**GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION**
RPP / Non-RPP:	**Non-RPP (Other)** **Class B - non-Interval Metered**
Consumption	**80,000** kWh
Demand	**250** kW
Current Loss Factor	**1.0369**
Proposed/Approved Loss Factor	**1.0369**

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 142.24	1	$ 142.24	$ 143.52	1	$ 143.52	$ 1.28	0.90%
Distribution Volumetric Rate	$ 4.2415	250	$ 1,060.38	$ 4.2797	250	$ 1,069.92	$ 9.54	0.90%
Fixed Rate Riders	$ 4.78	1	$ 4.78	$ 1.62	1	$ 1.62	$ (3.16)	-66.11%
Volumetric Rate Riders	$ 0.0964	250	$ 24.10	$ 0.2164	250	$ 54.10	$ 30.00	124.48%
Sub-Total A (excluding pass through)			$ 1,231.50			$ 1,269.16	**$ 37.66**	**3.06%**
Line Losses on Cost of Power	$ -	-	$ -	$ -	-	$ -	$ -	
Total Deferral/Variance Account Rate Riders	$ 1.3590	250	$ 339.75	-$ 1.3730	250	$ (343.25)	$ (683.00)	-201.03%
GA Rate Riders	$ 0.0004	80,000	$ 32.00	$ 0.0022	80,000	$ 176.00	$ 144.00	450.00%
Low Voltage Service Charge	$ 0.1589	250	$ 39.73	$ 0.1589	250	$ 39.73	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 1,642.97**			**$ 1,141.63**	**$ (501.34)**	**-30.51%**
RTSR - Network	$ 2.6739	250	$ 668.48	$ 2.6130	250	$ 653.25	$ (15.23)	-2.28%
RTSR - Connection and/or Line and Transformation Connection	$ 1.3420	250	$ 335.50	$ 1.3338	250	$ 333.45	$ (2.05)	-0.61%
Sub-Total C - Delivery (including Sub-Total B)			**$ 2,646.95**			**$ 2,128.33**	**$ (518.61)**	**-19.59%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	82,952	$ 298.63	$ 0.0036	82,952	$ 298.63	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	82,952	$ 24.89	$ 0.0003	82,952	$ 24.89	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	80,000	$ 560.00	$ -	80,000	$ -	$ (560.00)	-100.00%
							$ -	
TOU - Off Peak	$ 0.0650	53,919	$ 3,504.72	$ 0.0650	53,919	$ 3,504.72	$ -	0.00%
TOU - Mid Peak	$ 0.0940	14,102	$ 1,325.57	$ 0.0940	14,102	$ 1,325.57	$ -	0.00%
TOU - On Peak	$ 0.1320	14,931	$ 1,970.94	$ 0.1320	14,931	$ 1,970.94	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1038	82,952	$ 8,610.42	$ 0.1038	82,952	$ 8,610.42	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1038	82,952	$ 8,610.42	$ 0.1038	82,952	$ 8,610.42	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 10,331.94**			**$ 9,253.33**	**$ (1,078.61)**	**-10.44%**
HST	13%		$ 1,343.15	13%		$ 1,202.93	$ (140.22)	-10.44%
8% Provincial Rebate	-8%		$ (826.56)	-8%		$ (740.27)	$ 86.29	-10.44%
Total Bill on TOU			**$ 10,848.54**			**$ 9,716.00**	**$ (1,132.54)**	**-10.44%**
Total Bill on Non-RPP Avg. Price			**$ 12,141.13**			**$ 11,062.51**	**$ (1,078.61)**	**-8.88%**
HST	13%		$ 1,578.35	13%		$ 1,438.13	$ (140.22)	-8.88%
8% Provincial Rebate	-8%		$ (971.29)	-8%		$ (885.00)	$ 86.29	-8.88%
Total Bill on Non-RPP Avg. Price			**$ 12,748.18**			**$ 11,615.64**	**$ (1,132.54)**	**-8.88%**
Total Bill on Average IESO Wholesale Market Price			**$ 12,141.13**			**$ 11,062.51**	**$ (1,078.61)**	**-8.88%**
HST	13%		$ 1,578.35	13%		$ 1,438.13	$ (140.22)	-8.88%
Total Bill on Average IESO WMP (before 8% Provincial Rebate)			$ 13,719.47			$ 12,500.64	$ (1,218.83)	-8.88%
8% Provincial Rebate	0%		$ -	0%		$ -	$ -	
Total Bill on Average IESO Wholesale Market Price			**$ 13,719.47**			**$ 12,500.64**	**$ (1,218.83)**	**-8.88%**

Customer Class:	LARGE USE SERVICE CLASSIFICATION
RPP / Non-RPP:	Non-RPP (Other) — **Class A**
Consumption	2,800,000 kWh
Demand	7,350 kW
Current Loss Factor	1.0145
Proposed/Approved Loss Factor	1.0145

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 6,128.34	1	$ 6,128.34	$ 6,183.50	1	$ 6,183.50	$ 55.16	0.90%
Distribution Volumetric Rate	$ 2.2623	7350	$ 16,627.91	$ 2.2827	7350	$ 16,777.56	$ 149.65	0.90%
Fixed Rate Riders	$ 121.36	1	$ 121.36	$ 69.71	1	$ 69.71	$ (51.65)	-42.56%
Volumetric Rate Riders	-$ 0.0633	7350	$ (465.26)	-$ 0.1171	7350	$ (860.69)	$ (395.43)	84.99%
Sub-Total A (excluding pass through)			$ 22,412.35			$ 22,170.08	**$ (242.27)**	**-1.08%**
Line Losses on Cost of Power	$ -	-	$ -	$ -	-	$ -	$ -	
Total Deferral/Variance Account Rate Riders	-$ 1.2470	7,350	$ (9,165.45)	-$ 1.9044	7,350	$ (13,997.34)	$ (4,831.89)	52.72%
GA Rate Riders				$ -	2,800,000	$ -	$ -	
Low Voltage Service Charge	$ 0.1630	7,350	$ 1,198.05	$ 0.1630	7,350	$ 1,198.05	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 14,444.95**			**$ 9,370.79**	**$ (5,074.16)**	**-35.13%**
RTSR - Network	$ 3.2305	7,350	$ 23,744.18	$ 3.1569	7,350	$ 23,203.22	$ (540.96)	-2.28%
RTSR - Connection and/or Line and Transformation Connection	$ 1.4016	7,350	$ 10,301.76	$ 1.3931	7,350	$ 10,239.29	$ (62.48)	-0.61%
Sub-Total C - Delivery (including Sub-Total B)			**$ 48,490.89**			**$ 42,813.29**	**$ (5,677.59)**	**-11.71%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	2,840,600	$ 10,226.16	$ 0.0036	2,840,600	$ 10,226.16	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	2,840,600	$ 852.18	$ 0.0003	2,840,600	$ 852.18	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	2,800,000	$ 19,600.00	$ -	2,800,000	$ -	$ (19,600.00)	-100.00%
							$ -	
TOU - Off Peak	$ 0.0650	1,846,390	$ 120,015.35	$ 0.0650	1,846,390	$ 120,015.35	$ -	0.00%
TOU - Mid Peak	$ 0.0940	482,902	$ 45,392.79	$ 0.0940	482,902	$ 45,392.79	$ -	0.00%
TOU - On Peak	$ 0.1320	511,308	$ 67,492.66	$ 0.1320	511,308	$ 67,492.66	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1038	2,840,600	$ 294,854.28	$ 0.1038	2,840,600	$ 294,854.28	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1038	2,840,600	$ 294,854.28	$ 0.1038	2,840,600	$ 294,854.28	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 312,070.27**			**$ 286,792.68**	**$ (25,277.59)**	**-8.10%**
HST	13%		$ 40,569.13	13%		$ 37,283.05	$ (3,286.09)	-8.10%
8% Provincial Rebate	-8%		$ (24,965.62)	-8%		$ (22,943.41)	$ 2,022.21	-8.10%
Total Bill on TOU			**$ 327,673.78**			**$ 301,132.31**	**$ (26,541.47)**	**-8.10%**
Total Bill on Non-RPP Avg. Price			**$ 374,023.76**			**$ 348,746.16**	**$ (25,277.59)**	**-6.76%**
HST	13%		$ 48,623.09	13%		$ 45,337.00	$ (3,286.09)	-6.76%
8% Provincial Rebate	-8%		$ (29,921.90)	-8%		$ (27,899.69)	$ 2,022.21	-6.76%
Total Bill on Non-RPP Avg. Price			**$ 392,724.94**			**$ 366,183.47**	**$ (26,541.47)**	**-6.76%**
Total Bill on Average IESO Wholesale Market Price			**$ 374,023.76**			**$ 348,746.16**	**$ (25,277.59)**	**-6.76%**
HST	13%		$ 48,623.09	13%		$ 45,337.00	$ (3,286.09)	-6.76%
Total Bill on Average IESO WMP (before 8% Provincial Rebate)			$ 422,646.84			$ 394,083.16	$ (28,563.68)	-6.76%
8% Provincial Rebate	0%		$ -	0%		$ -	$ -	
Total Bill on Average IESO Wholesale Market Price			**$ 422,646.84**			**$ 394,083.16**	**$ (28,563.68)**	**-6.76%**

Customer Class:	UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION
RPP / Non-RPP:	RPP — Class B
Consumption	150 kWh
Demand	- kW
Current Loss Factor	1.0369
Proposed/Approved Loss Factor	1.0369

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 8.68	1	$ 8.68	$ 8.76	1	$ 8.76	$ 0.08	0.92%
Distribution Volumetric Rate	$ 0.0197	150	$ 2.96	$ 0.0199	150	$ 2.98	$ 0.03	0.90%
Fixed Rate Riders	$ 0.11	1	$ 0.11	$ 0.09	1	$ 0.09	$ (0.02)	-18.18%
Volumetric Rate Riders	-$ 0.0004	150	$ (0.06)	-$ 0.0006	150	$ (0.09)	$ (0.03)	50.00%
Sub-Total A (excluding pass through)			$ 11.69			$ 11.74	**$ 0.06**	**0.48%**
Line Losses on Cost of Power	$ 0.0820	6	$ 0.45	$ 0.0820	6	$ 0.45	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0025	150	$ (0.38)	-$ 0.0036	150	$ (0.54)	$ (0.17)	44.00%
GA Rate Riders	$ -	150	$ -	$ -	150	$ -	$ -	
Low Voltage Service Charge	$ 0.0005	150	$ 0.08	$ 0.0005	150	$ 0.08	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders		1	$ -		1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 11.84**			**$ 11.73**	**$ (0.11)**	**-0.92%**
RTSR - Network	$ 0.0063	156	$ 0.98	$ 0.0062	156	$ 0.96	$ (0.02)	-1.59%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0037	156	$ 0.58	$ 0.0037	156	$ 0.58	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 13.39**			**$ 13.27**	**$ (0.12)**	**-0.93%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	156	$ 0.56	$ 0.0036	156	$ 0.56	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	156	$ 0.05	$ 0.0003	156	$ 0.05	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	150	$ 1.05	$ -	150	$ -	$ (1.05)	-100.00%
							$ -	
TOU - Off Peak	$ 0.0650	98	$ 6.34	$ 0.0650	98	$ 6.34	$ -	0.00%
TOU - Mid Peak	$ 0.0940	26	$ 2.40	$ 0.0940	26	$ 2.40	$ -	0.00%
TOU - On Peak	$ 0.1320	27	$ 3.56	$ 0.1320	27	$ 3.56	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1038	150	$ 15.57	$ 0.1038	150	$ 15.57	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1038	150	$ 15.57	$ 0.1038	150	$ 15.57	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 27.60**			**$ 26.43**	**$ (1.17)**	**-4.25%**
HST	13%		$ 3.59	13%		$ 3.44	$ (0.15)	-4.25%
Total Bill on TOU (before 8% Provincial Rebate)			$ 31.19			$ 29.86	$ (1.33)	-4.25%
8% Provincial Rebate	0%		$ -	0%		$ -	$ -	
Total Bill on TOU			**$ 31.19**			**$ 29.86**	**$ (1.33)**	**-4.25%**
Total Bill on Non-RPP Avg. Price			**$ 30.87**			**$ 29.70**	**$ (1.17)**	**-3.80%**
HST	13%		$ 4.01	13%		$ 3.86	$ (0.15)	-3.80%
Provincial Rebate	-8%		$ (2.47)	-8%		$ (2.38)	$ 0.09	-3.80%
Total Bill on Non-RPP Avg. Price			**$ 32.41**			**$ 31.18**	**$ (1.23)**	**-3.80%**
Total Bill on Average IESO Wholesale Market Price			**$ 30.87**			**$ 29.70**	**$ (1.17)**	**-3.80%**
HST	13%		$ 4.01	13%		$ 3.86	$ (0.15)	-3.80%
Provincial Rebate	-8%		$ (2.47)	-8%		$ (2.38)	$ 0.09	-3.80%
Total Bill on Average IESO Wholesale Market Price			**$ 32.41**			**$ 31.18**	**$ (1.23)**	**-3.80%**

Customer Class:	SENTINEL LIGHTING SERVICE CLASSIFICATION
RPP / Non-RPP:	RPP
Consumption	180 kWh
Demand	1 kW
Current Loss Factor	1.0369
Proposed/Approved Loss Factor	1.0369

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 4.23	1	$ 4.23	$ 4.27	1	$ 4.27	$ 0.04	0.95%
Distribution Volumetric Rate	$ 9.9582	1	$ 9.96	$ 10.0478	1	$ 10.05	$ 0.09	0.90%
Fixed Rate Riders	$ 0.10	1	$ 0.10	$ 0.09	1	$ 0.09	$ (0.01)	-10.04%
Volumetric Rate Riders	-$ 0.3850	1	$ (0.39)	-$ 0.5289	1	$ (0.53)	$ (0.14)	37.38%
Sub-Total A (excluding pass through)			$ 13.90			$ 13.88	**$ (0.02)**	**-0.17%**
Line Losses on Cost of Power	$ 0.0820	7	$ 0.54	$ 0.0820	7	$ 0.54	$ -	0.00%
Total Deferral/Variance Account Rate Riders	$ 1.4716	1	$ 1.47	-$ 1.3272	1	$ (1.33)	$ (2.80)	-190.19%
GA Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Low Voltage Service Charge	$ 0.1170	1	$ 0.12	$ 0.1170	1	$ 0.12	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 16.04**			**$ 13.21**	**$ (2.82)**	**-17.60%**
RTSR - Network	$ 2.0778	1	$ 2.08	$ 2.0304	1	$ 2.03	$ (0.05)	-2.28%
RTSR - Connection and/or Line and Transformation Connection	$ 0.9929	1	$ 0.99	$ 0.9869	1	$ 0.99	$ (0.01)	-0.60%
Sub-Total C - Delivery (including Sub-Total B)			**$ 19.11**			**$ 16.23**	**$ (2.88)**	**-15.05%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	187	$ 0.67	$ 0.0036	187	$ 0.67	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	187	$ 0.06	$ 0.0003	187	$ 0.06	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	180	$ 1.26	$ -	180	$ -	$ (1.26)	-100.00%
							$ -	
TOU - Off Peak	$ 0.0650	117	$ 7.61	$ 0.0650	117	$ 7.61	$ -	0.00%
TOU - Mid Peak	$ 0.0940	31	$ 2.88	$ 0.0940	31	$ 2.88	$ -	0.00%
TOU - On Peak	$ 0.1320	32	$ 4.28	$ 0.1320	32	$ 4.28	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1038	180	$ 18.68	$ 0.1038	180	$ 18.68	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1038	180	$ 18.68	$ 0.1038	180	$ 18.68	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 36.10**			**$ 31.97**	**$ (4.14)**	**-11.46%**
HST	13%		$ 4.69	13%		$ 4.16	$ (0.54)	-11.46%
Total Bill on TOU (before 8% Provincial Rebate)			$ 40.80			$ 36.12	$ (4.67)	-11.46%
8% Provincial Rebate	0%		$ -	0%		$ -	$ -	
Total Bill on TOU			**$ 40.80**			**$ 36.12**	**$ (4.67)**	**-11.46%**
Total Bill on Non-RPP Avg. Price			**$ 40.03**			**$ 35.89**	**$ (4.14)**	**-10.33%**
HST	13%		$ 5.20	13%		$ 4.67	$ (0.54)	-10.33%
Provincial Rebate	-8%		$ (3.20)	-8%		$ (2.87)	$ 0.33	-10.33%
Total Bill on Non-RPP Avg. Price			**$ 42.03**			**$ 37.69**	**$ (4.34)**	**-10.33%**
Total Bill on Average IESO Wholesale Market Price			**$ 40.03**			**$ 35.89**	**$ (4.14)**	**-10.33%**
HST	13%		$ 5.20	13%		$ 4.67	$ (0.54)	-10.33%
Provincial Rebate	-8%		$ (3.20)	-8%		$ (2.87)	$ 0.33	-10.33%
Total Bill on Average IESO Wholesale Market Price			**$ 42.03**			**$ 37.69**	**$ (4.34)**	**-10.33%**

Customer Class:	STREET LIGHTING SERVICE CLASSIFICATION
RPP / Non-RPP:	Non-RPP (Other) — Class B
Consumption	280 kWh
Demand	1 kW
Current Loss Factor	1.0369
Proposed/Approved Loss Factor	1.0369

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 1.20	1	$ 1.20	$ 1.21	1	$ 1.21	$ 0.01	0.83%
Distribution Volumetric Rate	$ 6.3791	1	$ 6.38	$ 6.4365	1	$ 6.44	$ 0.06	0.90%
Fixed Rate Riders	$ 0.01	1	$ 0.01	$ 0.01	1	$ 0.01	$ -	0.00%
Volumetric Rate Riders	$ 0.6107	1	$ 0.61	$ 1.9191	1	$ 1.92	$ 1.31	214.25%
Sub-Total A (excluding pass through)			$ 8.20			$ 9.58	**$ 1.38**	**16.78%**
Line Losses on Cost of Power	$ 0.1038	10	$ 1.07	$ 0.1038	10	$ 1.07	$ -	0.00%
Total Deferral/Variance Account Rate Riders	$ 1.3018	1	$ 1.30	-$ 1.2881	1	$ (1.29)	$ (2.59)	-198.95%
GA Rate Riders	$ 0.0004	280	$ 0.11	$ 0.0022	280	$ 0.62	$ 0.50	450.00%
Low Voltage Service Charge	$ 0.1288	1	$ 0.13	$ 0.1288	1	$ 0.13	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 10.81**			**$ 10.10**	**$ (0.71)**	**-6.57%**
RTSR - Network	$ 2.6888	1	$ 2.69	$ 2.6275	1	$ 2.63	$ (0.06)	-2.28%
RTSR - Connection and/or Line and Transformation Connection	$ 1.4379	1	$ 1.44	$ 1.4291	1	$ 1.43	$ (0.01)	-0.61%
Sub-Total C - Delivery (including Sub-Total B)			**$ 14.94**			**$ 14.16**	**$ (0.78)**	**-5.22%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	290	$ 1.05	$ 0.0036	290	$ 1.05	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	290	$ 0.09	$ 0.0003	290	$ 0.09	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	280	$ 1.96	$ -	280	$ -	$ (1.96)	-100.00%
							$ -	
TOU - Off Peak	$ 0.0650	182	$ 11.83	$ 0.0650	182	$ 11.83	$ -	0.00%
TOU - Mid Peak	$ 0.0940	48	$ 4.47	$ 0.0940	48	$ 4.47	$ -	0.00%
TOU - On Peak	$ 0.1320	50	$ 6.65	$ 0.1320	50	$ 6.65	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1038	280	$ 29.06	$ 0.1038	280	$ 29.06	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1038	280	$ 29.06	$ 0.1038	280	$ 29.06	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 41.24**			**$ 38.50**	**$ (2.74)**	**-6.64%**
HST	13%		$ 5.36	13%		$ 5.01	$ (0.36)	-6.64%
Provincial Rebate	-8%		$ (3.30)	-8%		$ (3.08)	$ 0.22	-6.64%
Total Bill on TOU			**$ 43.30**			**$ 40.43**	**$ (2.88)**	**-6.64%**
Total Bill on Non-RPP Avg. Price			**$ 47.35**			**$ 44.61**	**$ (2.74)**	**-5.79%**
HST	13%		$ 6.16	13%		$ 5.80	$ (0.36)	-5.79%
Provincial Rebate	-8%		$ (3.79)	-8%		$ (3.57)	$ 0.22	-5.79%
Total Bill on Non-RPP Avg. Price			**$ 49.72**			**$ 46.84**	**$ (2.88)**	**-5.79%**
Total Bill on Average IESO Wholesale Market Price			**$ 47.35**			**$ 44.61**	**$ (2.74)**	**-5.79%**
HST	13%		$ 6.16	13%		$ 5.80	$ (0.36)	-5.79%
Total Bill on Average IESO WMP (before 8% Provincial Rebate)			$ 53.50			$ 50.41	$ (3.10)	-5.79%
8% Provincial Rebate	0%		$ -	0%		$ -	$ -	
Total Bill on Average IESO Wholesale Market Price			**$ 53.50**			**$ 50.41**	**$ (3.10)**	**-5.79%**

Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION
RPP / Non-RPP:	RPP — 10th Percentile
Consumption	309 kWh
Demand	- kW
Current Loss Factor	1.0369
Proposed/Approved Loss Factor	1.0369

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 21.63	1	$ 21.63	$ 24.83	1	$ 24.83	$ 3.20	14.79%
Distribution Volumetric Rate	$ 0.0088	308.871	$ 2.72	$ 0.0044	308.871	$ 1.36	$ (1.36)	-50.00%
Fixed Rate Riders	$ 0.25	1	$ 0.25	$ 0.31	1	$ 0.31	$ 0.06	24.00%
Volumetric Rate Riders	$ -	308.871	$ -	$ 0.0003	308.871	$ 0.09	$ 0.09	
Sub-Total A (excluding pass through)			$ 24.60			$ 26.59	**$ 1.99**	**8.10%**
Line Losses on Cost of Power	$ 0.0820	11	$ 0.93	$ 0.0820	11	$ 0.93	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0028	309	$ (0.86)	-$ 0.0038	309	$ (1.17)	$ (0.31)	35.71%
GA Rate Riders	$ -	309	$ -	$ -	309	$ -	$ -	
Low Voltage Service Charge	$ 0.0005	309	$ 0.15	$ 0.0005	309	$ 0.15	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.75	1	$ 0.75	$ 0.57	1	$ 0.57	$ (0.18)	-24.00%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 25.57**			**$ 27.08**	**$ 1.50**	**5.88%**
RTSR - Network	$ 0.0075	320	$ 2.40	$ 0.0073	320	$ 2.34	$ (0.06)	-2.67%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0040	320	$ 1.28	$ 0.0040	320	$ 1.28	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 29.26**			**$ 30.70**	**$ 1.44**	**4.92%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	320	$ 1.15	$ 0.0036	320	$ 1.15	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	320	$ 0.10	$ 0.0003	320	$ 0.10	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)								
							$ -	
TOU - Off Peak	$ 0.0650	201	$ 13.05	$ 0.0650	201	$ 13.05	$ -	0.00%
TOU - Mid Peak	$ 0.0940	53	$ 4.94	$ 0.0940	53	$ 4.94	$ -	0.00%
TOU - On Peak	$ 0.1320	56	$ 7.34	$ 0.1320	56	$ 7.34	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1038	309	$ 32.06	$ 0.1038	309	$ 32.06	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1038	309	$ 32.06	$ 0.1038	309	$ 32.06	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 56.08**			**$ 57.52**	**$ 1.44**	**2.57%**
HST	13%		$ 7.29	13%		$ 7.48	$ 0.19	2.57%
Total Bill on TOU (before 8% Provincial Rebate)			**$ 63.37**			**$ 65.00**	**$ 1.63**	**2.57%**
8% Provincial Rebate	-8%		$ (4.49)	-8%		$ (4.60)	$ (0.12)	2.57%
Total Bill on TOU			**$ 58.88**			**$ 60.40**	**$ 1.51**	**2.57%**
Total Bill on Non-RPP Avg. Price			**$ 62.82**			**$ 64.26**	**$ 1.44**	**2.29%**
HST	13%		$ 8.17	13%		$ 8.35	$ 0.19	2.29%
Provincial Rebate	-8%		$ (5.03)	-8%		$ (5.14)	$ (0.12)	2.29%
Total Bill on Non-RPP Avg. Price			**$ 65.96**			**$ 67.47**	**$ 1.51**	**2.29%**
Total Bill on Average IESO Wholesale Market Price			**$ 62.82**			**$ 64.26**	**$ 1.44**	**2.29%**
HST	13%		$ 8.17	13%		$ 8.35	$ 0.19	2.29%
Provincial Rebate	-8%		$ (5.03)	-8%		$ (5.14)	$ (0.12)	2.29%
Total Bill on Average IESO Wholesale Market Price			**$ 65.96**			**$ 67.47**	**$ 1.51**	**2.29%**

Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION
RPP / Non-RPP:	Non-RPP (Retailer)
Consumption	750 kWh
Demand	- kW
Current Loss Factor	1.0369
Proposed/Approved Loss Factor	1.0369

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 21.63	1	$ 21.63	$ 24.83	1	$ 24.83	$ 3.20	14.79%
Distribution Volumetric Rate	$ 0.0088	750	$ 6.60	$ 0.0044	750	$ 3.30	$ (3.30)	-50.00%
Fixed Rate Riders	$ 0.25	1	$ 0.25	$ 0.31	1	$ 0.31	$ 0.06	24.00%
Volumetric Rate Riders	$ -	750	$ -	$ 0.0003	750	$ 0.23	$ 0.23	
Sub-Total A (excluding pass through)			$ 28.48			$ 28.67	**$ 0.18**	**0.65%**
Line Losses on Cost of Power	$ 0.1038	28	$ 2.87	$ 0.1038	28	$ 2.87	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0028	750	$ (2.10)	-$ 0.0038	750	$ (2.85)	$ (0.75)	35.71%
GA Rate Riders	$ 0.0066	750	$ 4.95	$ 0.0022	750	$ 1.65	$ (3.30)	-66.67%
Low Voltage Service Charge	$ 0.0005	750	$ 0.38	$ 0.0005	750	$ 0.38	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.75	1	$ 0.75	$ 0.57	1	$ 0.57	$ (0.18)	-24.00%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 35.33**			**$ 31.28**	**$ (4.05)**	**-11.45%**
RTSR - Network	$ 0.0075	778	$ 5.83	$ 0.0073	778	$ 5.68	$ (0.16)	-2.67%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0040	778	$ 3.11	$ 0.0040	778	$ 3.11	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 44.27**			**$ 40.07**	**$ (4.20)**	**-9.49%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	778	$ 2.80	$ 0.0036	778	$ 2.80	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	778	$ 0.23	$ 0.0003	778	$ 0.23	$ -	0.00%
Standard Supply Service Charge								
Debt Retirement Charge (DRC)								
							$ -	
TOU - Off Peak	$ 0.0650	488	$ 31.69	$ 0.0650	488	$ 31.69	$ -	0.00%
TOU - Mid Peak	$ 0.0940	128	$ 11.99	$ 0.0940	128	$ 11.99	$ -	0.00%
TOU - On Peak	$ 0.1320	135	$ 17.82	$ 0.1320	135	$ 17.82	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1038	750	$ 77.85	$ 0.1038	750	$ 77.85	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1038	750	$ 77.85	$ 0.1038	750	$ 77.85	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 108.80**			**$ 104.60**	**$ (4.20)**	**-3.86%**
HST	13%		$ 14.14	13%		$ 13.60	$ (0.55)	-3.86%
Provincial Rebate	-8%		$ (8.70)	-8%		$ (8.37)	$ 0.34	-3.86%
Total Bill on TOU			**$ 114.24**			**$ 109.83**	**$ (4.41)**	**-3.86%**
Total Bill on Non-RPP Avg. Price			**$ 125.15**			**$ 120.95**	**$ (4.20)**	**-3.36%**
HST	13%		$ 16.27	13%		$ 15.72	$ (0.55)	-3.36%
Total Bill on Non-RPP Avg. Price (before 8% Provincial Rebate)			**$ 141.42**			**$ 136.68**	**$ (4.75)**	**-3.36%**
8% Provincial Rebate	-8%		$ (10.01)	-8%		$ (9.68)	$ 0.34	-3.36%
Total Bill on Non-RPP Avg. Price			**$ 131.41**			**$ 127.00**	**$ (4.41)**	**-3.36%**
Total Bill on Average IESO Wholesale Market Price			**$ 125.15**			**$ 120.95**	**$ (4.20)**	**-3.36%**
HST	13%		$ 16.27	13%		$ 15.72	$ (0.55)	-3.36%
Provincial Rebate	-8%		$ (10.01)	-8%		$ (9.68)	$ 0.34	-3.36%
Total Bill on Average IESO Wholesale Market Price			**$ 131.41**			**$ 127.00**	**$ (4.41)**	**-3.36%**

Customer Class:	GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	
RPP / Non-RPP:	Non-RPP (Retailer)	
Consumption	2,000	kWh
Demand	-	kW
Current Loss Factor	1.0369	
Proposed/Approved Loss Factor	1.0369	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 29.00	1	$ 29.00	$ 29.26	1	$ 29.26	$ 0.26	0.90%
Distribution Volumetric Rate	$ 0.0185	2000	$ 37.00	$ 0.0187	2000	$ 37.40	$ 0.40	1.08%
Fixed Rate Riders	$ 0.52	1	$ 0.52	$ 0.33	1	$ 0.33	$ (0.19)	-36.54%
Volumetric Rate Riders	$ 0.0010	2000	$ 2.00	$ 0.0017	2000	$ 3.40	$ 1.40	70.00%
Sub-Total A (excluding pass through)			$ 68.52			$ 70.39	**$ 1.87**	**2.73%**
Line Losses on Cost of Power	$ 0.1038	74	$ 7.66	$ 0.1038	74	$ 7.66	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0026	2,000	$ (5.20)	-$ 0.0037	2,000	$ (7.40)	$ (2.20)	42.31%
GA Rate Riders	$ 0.0066	2,000	$ 13.20	$ 0.0022	2,000	$ 4.40	$ (8.80)	-66.67%
Low Voltage Service Charge	$ 0.0004	2,000	$ 0.80	$ 0.0004	2,000	$ 0.80	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.78	1	$ 0.78	$ 0.57	1	$ 0.57	$ (0.21)	-26.92%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 85.76**			**$ 76.42**	**$ (9.34)**	**-10.89%**
RTSR - Network	$ 0.0067	2,074	$ 13.89	$ 0.0065	2,074	$ 13.48	$ (0.41)	-2.99%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0035	2,074	$ 7.26	$ 0.0035	2,074	$ 7.26	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 106.91**			**$ 97.16**	**$ (9.75)**	**-9.12%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	2,074	$ 7.47	$ 0.0036	2,074	$ 7.47	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	2,074	$ 0.62	$ 0.0003	2,074	$ 0.62	$ -	0.00%
Standard Supply Service Charge								
Debt Retirement Charge (DRC)	$ 0.0070	2,000	$ 14.00	$ -	2,000	$ -	$ (14.00)	-100.00%
							$ -	
TOU - Off Peak	$ 0.0650	1,300	$ 84.50	$ 0.0650	1,300	$ 84.50	$ -	0.00%
TOU - Mid Peak	$ 0.0940	340	$ 31.96	$ 0.0940	340	$ 31.96	$ -	0.00%
TOU - On Peak	$ 0.1320	360	$ 47.52	$ 0.1320	360	$ 47.52	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1038	2,000	$ 207.60	$ 0.1038	2,000	$ 207.60	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1038	2,000	$ 207.60	$ 0.1038	2,000	$ 207.60	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 292.98**			**$ 269.23**	**$ (23.75)**	**-8.11%**
HST	13%		$ 38.09	13%		$ 35.00	$ (3.09)	-8.11%
Provincial Rebate	-8%		$ (23.44)	-8%		$ (21.54)	$ 1.90	-8.11%
Total Bill on TOU			**$ 307.63**			**$ 282.69**	**$ (24.94)**	**-8.11%**
Total Bill on Non-RPP Avg. Price			**$ 336.60**			**$ 312.85**	**$ (23.75)**	**-7.06%**
HST	13%		$ 43.76	13%		$ 40.67	$ (3.09)	-7.06%
Total Bill on Non-RPP Avg. Price (before 8% Provincial Rebate)			**$ 380.36**			**$ 353.52**	**$ (26.84)**	**-7.06%**
8% Provincial Rebate	-8%		$ (26.93)	-8%		$ (25.03)	$ 1.90	-7.06%
Total Bill on Non-RPP Avg. Price			**$ 353.43**			**$ 328.49**	**$ (24.94)**	**-7.06%**
Total Bill on Average IESO Wholesale Market Price			**$ 336.60**			**$ 312.85**	**$ (23.75)**	**-7.06%**
HST	13%		$ 43.76	13%		$ 40.67	$ (3.09)	-7.06%
Provincial Rebate	-8%		$ (26.93)	-8%		$ (25.03)	$ 1.90	-7.06%
Total Bill on Average IESO Wholesale Market Price			**$ 353.43**			**$ 328.49**	**$ (24.94)**	**-7.06%**

Alectra - PowerStream

Rates

MONTHLY RATES AND CHARGES - DELIVERY COMPONENT **0.57**

2	Effective until	Type	Customers	Billing Determinant	2018	2019
	3	4	5		6	7
Description	**Effective until**	**Type**	**Customers**	**Billing Determinant**	**2018**	**2019**
RESIDENTIAL						
Service Charge		Rate		$	21.63	24.83
Distribution Volumetric Rate		Rate		$/kWh	0.0088	0.0044
Low Voltage Service Rate		Rate		$/kWh	0.0005	0.0005
Rate Rider for Disposition of Smart Grid True-up Variance Account (2014 balance)	September 30, 2018	Rate Rider		$		
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) - effective until Septemb	September 30, 2018	Rate Rider		$	0.12	
Rate Rider for Recovery of Stranded Meter Assets (2016) - effective until September 30, 2018	September 30, 2018	Rate Rider		$	0.06	
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until September 30, 20	September 30, 2018	Rate Rider		$/kWh		
Rate Rider for Disposition of Deferral/Variance Account - Power (2016) - effective until Septembe	September 30, 2018	Rate Rider		$/kWh		
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until September	**September 30, 2018**	**Rate Rider**	**non_RPP**	**$/kWh**	**0.0062**	
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date o	next COS	Rate Rider		$		0.20
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA)	December 31, 2019	Rate Rider		$/kWh		0.0003
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 20	December 31, 2019	Rate Rider		$/kWh		(0.0010)
2019				$/kWh		
Applicable Only for Non-RPP Customers	December 31, 2019	Rate Rider	non-RPP			0.0018
December 31, 2019				$/kWh		
Applicable Only for Class B Customers	December 31, 2019	Rate Rider	Class B			0.0000
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019				$/kWh		
Applicable only for Non-RPP Customers	April 30, 2019				0.0004	0.0004
Smart Metering Entity Charge - effective until December 31, 2022	December 31, 2022	Rate Rider		$	0.5700	0.5700
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	April 30, 2019			$/kWh	(0.0030)	(0.0030)
2019				$/kWh		
Applicable Only for Class B Customers	April 30, 2019				0.0002	0.0002
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order				$	0.1100	0.1100
Rate Rider for Recovery of 2018 Foregone Revenue - effective until December 31, 2018	December 31, 2018			$	0.1400	
Retail Transmission Rate - Network Service Rate		Rate		$/kWh	0.0075	0.0073
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate		$/kWh	0.0040	0.0040
GENERAL SERVICE LESS THAN 50 KW						
Service Charge		Rate		$	29.00	29.26
Distribution Volumetric Rate		Rate		$/kWh	0.0185	0.0187
Low Voltage Service Rate		Rate		$/kWh	0.0004	0.0004
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until September 30, 20	September 30, 2018	Rate Rider		$/kWh	0.0003	
Rate Rider for Disposition of Deferral/Variance Account - Power (2016) - effective until Septembe	September 30, 2018	Rate Rider		$/kWh	(0.0003)	
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until September	**September 30, 2018**	**Rate Rider**	**non_RPP**	**$/kWh**	**0.0062**	
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) - effective until Septemb	September 30, 2018	Rate Rider		$/kWh	0.0002	
Rate Rider for Recovery of Stranded Meter Assets (2016) - effective until September 30, 2018	September 30, 2018	Rate Rider		$	0.21	
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date o	next COS	Rate Rider		$		0.21
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date o	next COS	Rate Rider		$/kWh		0.0001
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA)	December 31, 2019	Rate Rider		$/kWh		0.0006
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 20	December 31, 2019	Rate Rider		$/kWh		(0.0009)
2019				$/kWh		
Applicable Only for Non-RPP Customers	December 31, 2019	Rate Rider	non-RPP			0.0018
December 31, 2019				$/kWh		
Applicable Only for Class B Customers	December 31, 2019	Rate Rider	Class B			0.0000
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019				$/kWh		
Applicable only for Non-RPP Customers	April 30, 2019	Rate Rider	non_RPP		0.0004	0.0004
Smart Metering Entity Charge - effective until December 31, 2022	December 31, 2022	Rate Rider		$	0.5700	0.5700
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	April 30, 2019			$/kWh	(0.0030)	(0.0030)
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order				$/kWh	0.0001	0.0001
2019						
Applicable Only for Class B Customers	April 30, 2019			$/kWh	0.0002	0.0002
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA)	April 30, 2019			$/kWh	0.0009	0.0009
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order				$	0.1200	0.1200
Rate Rider for Recovery of 2018 Foregone Revenue - effective until December 31, 2018	December 31, 2018			$	0.4000	
Retail Transmission Rate - Network Service Rate		Rate		$/kWh	0.0067	0.0065
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate		$/kWh	0.0035	0.0035
GENERAL SERVICE GREATER THAN 50 KW						
Service Charge		Rate		$	142.24	143.52
Distribution Volumetric Rate		Rate		$/kW	4.2415	4.2797
Low Voltage Service Rate		Rate		$/kW	0.1589	0.1589
Transformer Discount		Rate		$/kW	(0.6000)	(0.6000)
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until September 30, 20	September 30, 2018	Rate Rider		$/kW	0.1169	
Rate Rider for Disposition of Deferral/Variance Account - Power (2016) - effective until Septembe	September 30, 2018	Rate Rider		$/kW	(0.1224)	
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until September 30, 2018				**$/kW**		
Applicable only for Class B Interval Metered Customers at December 31, 2016	**September 30, 2018**	**Rate Rider**	**non_RPP**			
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) - effective until Septemb	September 30, 2018	Rate Rider		$/kW	0.0620	
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	April 30, 2019			$/kW	0.0184	0.0184
				$/kW		
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019						
Applicable only for Non-Wholesale Market Participants	April 30, 2019				(1.1367)	(1.1367)
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date o	next COS	Rate Rider		$		1.05
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date o	next COS	Rate Rider		$/kW		0.0314
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA)	December 31, 2019	Rate Rider		$/kW		0.0886
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 20	December 31, 2019	Rate Rider		$/kW		(0.2953)
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019				$/kWh		
Applicable Only for Non-RPP Customers non-Interval Metered	December 31, 2019	Rate Rider	non-RPP			0.0018
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019				$/kW		
Applicable Only for Class B Customers	December 31, 2019	Rate Rider	Class B			(0.0046)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019						
Applicable only for Non-Wholesale Market Participants	December 31, 2019	Rate Rider		$/kW		(0.0453)
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order				$	0.5700	0.5700
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order				$/kW	0.0168	0.0168
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until September 30, 2018				$/kW		
Applicable only to non-RPP non-Interval Metered Customers	September 30, 2018	Rate Rider	non_RPP		2.3303	
				$		
Rate Rider for Recovery of 2018 Foregone Revenue - effective until December 31, 2018	December 31, 2018				4.2100	

			$/kwh		
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019 Applicable only for Non-RPP Customers	April 30, 2019			0.0004	0.0004
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA)	April 30, 2019		$/kW	0.0796	0.0796
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019			$/kW		
Applicable Only for Class B Customers	April 30, 2019			0.0905	0.0905
Retail Transmission Rate - Network Service Rate		Rate	$/kW	2.6739	2.6130
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate	$/kW	1.3420	1.3338
Retail Transmission Rate - Network Service Rate		Rate	$/kW	2.8030	2.7391
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate	$/kW	1.4520	1.4431

LARGE USE						
Service Charge		Rate		$	6,128.34	6,183.50
Distribution Volumetric Rate		Rate		$/kW	2.2623	2.2827
Low Voltage Service Rate		Rate		$/kW	0.1630	0.1630
Transformer Discount		Rate		$/kW	(0.6000)	(0.6000)
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until September 30, 20	September 30, 2018	Rate Rider		$/kW	0.1584	
Rate Rider for Disposition of Deferral/Variance Account - Power (2016) - effective until Septembe	September 30, 2018	Rate Rider		$/kW	(0.1659)	
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) - effective until Septemb	September 30, 2018	Rate Rider		$/kW	0.0840	
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date o	next COS	0		$		45.37
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date o	next COS	0		$/kW		0.0167
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA)	December 31, 2019	Rate Rider		$/kW		(0.0705)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 20	December 31, 2019	Rate Rider		$/kW		(0.5809)
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019				$/kWh		
Applicable Only for Non-RPP Customers	December 31, 2019	Rate Rider	non-RPP			0.0000
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019				$/kW		
Applicable Only for Class B Customers	December 31, 2019	Rate Rider	Class B			0.0000
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	April 30, 2019			$/kW	(1.3235)	(1.3235)
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order				$/kW	0.0090	0.0090
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order				$	24.3400	24.3400
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018) - effective until April 30, 2019	April 30, 2019			$/kW	(0.0723)	(0.0723)
Rate Rider for Recovery of 2018 Foregone Revenue - effective until December 31, 2018	December 31, 2018			$	97.02	
Retail Transmission Rate - Network Service Rate		Rate		$/kW	3.2305	3.1569
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate		$/kW	1.4016	1.3931
UNMETERED SCATTERED LOAD						
Service Charge		Rate		$	8.68	8.76
Distribution Volumetric Rate		Rate		$/kWh	0.0197	0.0199
Low Voltage Service Rate		Rate		$/kWh	0.0005	0.0005
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until September 30, 20	September 30, 2018	Rate Rider		$/kWh	0.0003	
Rate Rider for Disposition of Deferral/Variance Account - Power (2016) - effective until Septembe	September 30, 2018	Rate Rider		$/kWh	(0.0003)	
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until September	**September 30, 2018**	**Rate Rider**	**non_RPP**	**$/kWh**	**0.0062**	
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) - effective until Septemb	September 30, 2018	Rate Rider		$/kWh	0.0002	
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	April 30, 2019			$/kWh	(0.0029)	-0.0029
Rate Rider for Recovery of 2018 Foregone Revenue - effective until December 31, 2018	December 31, 2018			$	0.08	
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date o	next COS	0		$		0.06
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date o	next COS	0		$/kWh		0.0001
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA)	December 31, 2019	0		$/kWh		(0.0003)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 20	December 31, 2019	Rate Rider		$/kWh		(0.0009)
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019				$/kWh		
Applicable Only for Non-RPP Customers	December 31, 2019	Rate Rider	non-RPP			0.0018
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019				$/kWh		
Applicable Only for Class B Customers	December 31, 2019	Rate Rider	Class B			0.0000
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order				$	0.0300	0.0300
				$/kWh		
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019						
Applicable only for Non-RPP Customers	April 30, 2019				0.0004	0.0004
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019				$/kWh		
Applicable Only for Class B Customers	April 30, 2019				0.0002	0.0002
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order				$/kWh	0.0001	0.0001
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA)	April 30, 2019			$/kWh	(0.0005)	(0.0005)
Retail Transmission Rate - Network Service Rate		Rate		$/kWh	0.0063	0.0062
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate		$/kWh	0.0037	0.0037
SENTINEL						
Service Charge (per Connection)		Rate		$	4.23	4.27
Distribution Volumetric Rate		Rate		$/kW	9.9582	10.0478
Low Voltage Service Rate		Rate		$/kW	0.1170	0.1170
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until September 30, 20	September 30, 2018	Rate Rider		$/kW	0.1210	
Rate Rider for Disposition of Deferral/Variance Account - Power (2016) - effective until Septembe	September 30, 2018	Rate Rider		$/kW	(0.1267)	
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until September 30, 2018				**$/kW**		
Applicable only for non-RPP Customers	**September 30, 2018**	**Rate Rider**	**non_RPP**		**2.3977**	
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) - effective until Septemb	September 30, 2018	Rate Rider		$/kW	0.0641	
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019				$/kW		
Applicable Only for Class B Customers	April 30, 2019				0.0895	0.0895
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order				$/kW	0.0396	0.0396
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date o	next COS	Rate Rider		$		0.03
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date o	next COS	0		$/kW		0.0737
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA)	December 31, 2019	0		$/kW		(0.2176)
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 20	December 31, 2019	Rate Rider		$/kW		(0.3377)
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019				$/kWh		
Applicable Only for Non-RPP Customers	December 31, 2019	Rate Rider	non-RPP			0.0018
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019				$/kW		
Applicable Only for Class B Customers	December 31, 2019	Rate Rider	Class B			(0.0050)
Rate Rider for Recovery of 2018 Foregone Revenue - effective until December 31, 2018	December 31, 2018			$	0.0400	
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order				$	0.0200	0.0200
				$/kWh		
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019						
Applicable only for Non-RPP Customers	April 30, 2019				0.0004	0.0004
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	April 30, 2019			$/kW	(1.0740)	(1.0740)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA)	April 30, 2019			$/kW	(0.3850)	(0.3850)
Retail Transmission Rate - Network Service Rate		Rate		$/kWh	2.0778	2.0304
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate		$/kWh	0.9929	0.9869
STREET LIGHTING						
Service Charge (per Connection)		Rate		$	1.20	1.21
Distribution Volumetric Rate		Rate		$/kW	6.3791	6.4365
Low Voltage Service Rate		Rate		$/kW	0.1288	0.1288
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until September 30, 20	September 30, 2018	Rate Rider		$/kW	0.1116	
Rate Rider for Disposition of Deferral/Variance Account - Power (2016) - effective until Septembe	September 30, 2018	Rate Rider		$/kW	(0.1169)	
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until September	**September 30, 2018**	**Rate Rider**	**non_RPP**	**$/kW**	**2.2128**	
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) - effective until Septemb	September 30, 2018	Rate Rider		$/kW	0.0592	
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA)	April 30, 2019			$/kW	0.5854	0.5854
				$/kWh		
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until April 30, 2019						
Applicable only for Non-RPP Customers	April 30, 2019				0.0004	0.0004

Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of	next COS	Rate Rider		$		0.01
Rate Rider for Recovery of Incremental Capital Module (2019) - in effect until the effective date of	next COS	Rate Rider		$/kW		0.0472
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA)	December 31, 2019	0		$/kW		1.2612
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 20	December 31, 2019	Rate Rider		$/kW		(0.3185)
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019				$/kWh		
Applicable Only for Non-RPP Customers	December 31, 2019	Rate Rider	non-RPP			0.0018
Rate Rider for Disposition of Capacity Based Recovery Account (2019) - effective until December 31, 2019				$/kW		
Applicable Only for Class B Customers	December 31, 2019	Rate Rider	Class B			(0.0047)
Rate Rider for Recovery of 2018 Foregone Revenue - effective until December 31, 2018	December 31, 2018			$	0.0100	
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until April 30, 2019	April 30, 2019			$/kW	(1.0519)	(1.0519)
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until April 30, 2019				$/kW		
Applicable Only for Class B Customers	April 30, 2019				0.0870	0.0870
Rate Rider for Recovery of Incremental Capital Module (2018) - in effect until the effective date of the next cost of service based rate order				$/kW	0.0253	0.0253
Retail Transmission Rate - Network Service Rate		Rate		$/kWh	2.6888	2.6275
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate		$/kWh	1.4379	1.4291

POWERSTREAM Rate Zone

Distribution Bill Impacts				
Customer Class	Billing Units	Average Monthly Volume	2019 vs. 2018	
			$	%
Residential	kWh	750	$ 0.18	0.6%
GS<50	kWh	2,000	$ 1.87	2.7%
GS>50	kW	250	$ 37.66	3.1%
Large User	kW	7,350	$ (242.27)	(1.1)%
Street Lighting	kW	1	$ 1.38	16.8%

Table excludes the impact of HST (13%) & Provincial Rebate (8%)

Distribution Bill and All Rate Rider Bill Impacts				
Customer Class	Billing Units	Average Monthly Volume	2019 vs. 2018	
			$	%
Residential	kWh	750	$ (0.74)	(2.5)%
GS<50	kWh	2,000	$ (0.54)	(0.8)%
GS>50	kW	250	$ (501.34)	(30.5)%
Large User	kW	7,350	$ (5,074.16)	(35.1)%
Street Lighting	kW	1	$ (0.71)	(6.6)%

Table excludes the impact of HST (13%) & Provincial Rebate (8%)

Total Bill Impacts				
Customer Class	Billing Units	Average Monthly Volume	2019 vs. 2018	
			$	%
Residential	kWh	750	$ (0.90)	(0.9)%
GS<50	kWh	2,000	$ (14.95)	(5.4)%
GS>50	kW	250	$ (1,078.61)	(8.9)%
Large User	kW	7,350	$ (25,277.59)	(6.8)%
Street Lighting	kW	1	$ (2.74)	(5.8)%

Table excludes the impact of HST (13%) & Provincial Rebate (8%)

Total Bill Impacts including HST				
Customer Class	Billing Units	Average Monthly Volume	2018 vs. 2017 after 8% rebate	
			$	%
Residential	kWh	750	$ (0.95)	(0.9)%
GS<50	kWh	2,000	$ (15.70)	(5.4)%
GS>50	kW	250	$ (1,218.83)	(8.9)%
Large User	kW	7,350	$ (28,563.68)	(6.8)%
Street Lighting	kW	1	$ (3.10)	(5.8)%

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Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION
RPP / Non-RPP:	RPP — Class B
Consumption	750 kWh
Demand	- kW
Current Loss Factor	1.0369
Proposed/Approved Loss Factor	1.0369

With Fair Hydro Act, 2017 Reductions (RATE APPLICATION)

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 21.63	1	$ 21.63	$ 24.83	1	$ 24.83	$ 3.20	14.79%
Distribution Volumetric Rate	$ 0.0088	750	$ 6.60	$ 0.0044	750	$ 3.30	$ (3.30)	-50.00%
Fixed Rate Riders	$ 0.25	1	$ 0.25	$ 0.31	1	$ 0.31	$ 0.06	24.00%
Volumetric Rate Riders	$ -	750	$ -	$ 0.0003	750	$ 0.23	$ 0.23	
Sub-Total A (excluding pass through)			$ 28.48			$ 28.67	**$ 0.18**	**0.65%**
Line Losses on Cost of Power	$ 0.0820	28	$ 2.27	$ 0.0820	28	$ 2.27	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0028	750	$ (2.10)	-$ 0.0038	750	$ (2.85)	$ (0.75)	35.71%
GA Rate Riders	$ -	-		$ -	-			
Low Voltage Service Charge	$ 0.0005	750	$ 0.38	$ 0.0005	750	$ 0.38	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.75	1	$ 0.75	$ 0.57	1	$ 0.57	$ (0.18)	-24.00%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 29.77**			**$ 29.03**	**$ (0.74)**	**-2.50%**
RTSR - Network	$ 0.0075	778	$ 5.83	$ 0.0073	778	$ 5.68	$ (0.16)	-2.67%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0040	778	$ 3.11	$ 0.0040	778	$ 3.11	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 38.72**			**$ 37.82**	**$ (0.90)**	**-2.33%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	778	$ 2.80	$ 0.0036	778	$ 2.80	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	778	$ 0.23	$ 0.0003	778	$ 0.23	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ -	-		$ -	-			
OESP	$ -	-		$ -	-		$ -	
TOU - Off Peak	$ 0.0650	488	$ 31.69	$ 0.0650	488	$ 31.69	$ -	0.00%
TOU - Mid Peak	$ 0.0940	128	$ 11.99	$ 0.0940	128	$ 11.99	$ -	0.00%
TOU - On Peak	$ 0.1320	135	$ 17.82	$ 0.1320	135	$ 17.82	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 103.49**			**$ 102.59**	**$ (0.90)**	**-0.87%**
HST	13%		$ 13.45	13%		$ 13.34	$ (0.12)	-0.87%
Total Bill on TOU (before 8% Provincial Rebate)			**$ 116.95**			**$ 115.93**	**$ (1.02)**	-0.87%
8% Provincial Rebate	-8%		$ (8.28)	-8%		$ (8.21)	$ 0.07	-0.87%
Total Bill on TOU			**$ 108.67**			**$ 107.72**	**$ (0.95)**	**-0.87%**

Without any Fair Hydro Act, 2017 Reductions

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 21.63	1	$ 21.63	$ 24.83	1	$ 24.83	$ 3.20	14.79%
Distribution Volumetric Rate	$ 0.0088	750	$ 6.60	$ 0.0044	750	$ 3.30	$ (3.30)	-50.00%
Fixed Rate Riders	$ 0.25	1	$ 0.25	$ 0.31	1	$ 0.31	$ 0.06	24.00%
Volumetric Rate Riders	$ -	750	$ -	$ 0.0003	750	$ 0.23	$ 0.23	
Sub-Total A (excluding pass through)			$ 28.48			$ 28.67	**$ 0.18**	**0.65%**
Line Losses on Cost of Power	$ 0.1151	28	$ 3.18	$ 0.1151	28	$ 3.18	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0028	750	$ (2.10)	-$ 0.0038	750	$ (2.85)	$ (0.75)	35.71%
GA Rate Riders	$ -	-		$ -	-			
Low Voltage Service Charge	$ 0.0005	750	$ 0.38	$ 0.0005	750	$ 0.38	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.75	1	$ 0.75	$ 0.57	1	$ 0.57	$ (0.18)	-24.00%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 30.69**			**$ 29.94**	**$ (0.75)**	**-2.43%**
RTSR - Network	$ 0.0075	778	$ 5.83	$ 0.0073	778	$ 5.68	$ (0.16)	-2.67%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0040	778	$ 3.11	$ 0.0040	778	$ 3.11	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 39.63**			**$ 38.73**	**$ (0.90)**	**-2.27%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	778	$ 2.80	$ 0.0036	778	$ 2.80	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0021	778	$ 1.63	$ 0.0021	778	$ 1.63	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0007	750	$ 0.53	$ 0.0007	750	$ 0.53		
OESP	$ 0.0011	778	$ 0.86	$ 0.0011	778	$ 0.86	$ -	0.00%
TOU - Off Peak	$ 0.0910	488	$ 44.36	$ 0.0910	488	$ 44.36	$ -	0.00%
TOU - Mid Peak	$ 0.1330	128	$ 16.96	$ 0.1330	128	$ 16.96	$ -	0.00%
TOU - On Peak	$ 0.1850	135	$ 24.98	$ 0.1850	135	$ 24.98	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 131.99**			**$ 131.09**	**$ (0.90)**	**-0.68%**
HST	13%		$ 17.16	13%		$ 17.04	$ (0.12)	-0.68%
Total Bill on TOU (before 8% Provincial Rebate)			**$ 149.15**			**$ 148.13**	**$ (1.02)**	-0.68%
8% Provincial Rebate			$ -	0%		$ -	$ -	
Total Bill on TOU			**$ 149.15**			**$ 148.13**	**$ (1.02)**	**-0.68%**
			37%			38%		

ATTACHMENT 26
GA WORKFORM
POWERSTREAM RZ

Account 1589 Global Adjustment (GA) Analysis Workform

Input cells	
Drop down cells	

Note 1 **Year(s) Requested for Disposition** **2017**

Note 2 **Consumption Data Excluding for Loss Factor (Data to agree with RRR as applicable)**

Year		**2017**				
Total Metered excluding WMP	C = A+B	8,207,774,786	-	-	kWh	100%
RPP	A	3,673,621,965			kWh	44.8%
Non RPP	B = D+E	4,534,152,821	-	-	kWh	55.2%
Non-RPP Class A	D	802,973,439			kWh	9.8%
Non-RPP Class B*	E	3,731,179,381			kWh	45.5%

*Non-RPP Class B consumption reported in this table is not expected to directly agree with the Non-RPP Class B Including Loss Adjusted Billed Consumption in the GA Analysis of Expected Balance table below. The difference should be equal to the loss factor.

Note 3 **GA Billing Rate**

GA is billed on the 1st Estimate

Non-interval metered

GA Billing Rate Description

Non-interval metered customers are billed throughout the month and consumption is allocated between months based on the number of days in each month in the billing period. The consumption for each month is billed at the 1st estimate rate for that month.

Interval metered customers are billed for the calendar month in the middle of the next month. Consumption is for a single month and the actual GA rate is known at the time of billing and used to bill GA.

Limitations of PowerStream's billing system calcualtion of unbilled amounts will lead to significant timing differences between the GA revenue booked in the year versusthat shown in the GA Workform.

Note 4 **GA Analysis of Expected Balance**

Year **2017**

Calendar Month	Non-RPP Class B Including Loss Adjusted Billed Consumption	Deduct Previous Month Unbilled Loss Adjusted Consumption	Add Current Month Unbilled Loss Adjusted Consumption (kWh)	Non-RPP Class B Including Loss Adjusted Consumption, Adjusted for Unbilled	GA Rate to be Billed for Month ($/kWh)	$ Consumption at GA Rate Billed	GA Actual Rate Paid ($/kWh)	$ Consumption at Actual Rate Paid	Expected GA Variance ($)
	kWh	**kWh**	**kWh**	**kWh**					
	F	**G**	**H**	**I = F-G+H**	**J**	**K = I*J**	**L**	**M = I*L**	**=M-K**
January - Interval metered	153,986,496	179,978,188	171,712,875	145,721,183	$ 0.08227	$ 11,988,482	$ 0.08227	$ 11,988,482	$ -
January - Non-interval metered	217,315,409	222,052,626	230,811,900	226,074,684	$ 0.06687	$ 15,117,614	$ 0.08227	$ 18,599,164	$ 3,481,550
January - Total	**371,301,905**	**402,030,814**	**402,524,775**	**371,795,866**		**$ 27,106,096**		**$ 30,587,646**	**$ 3,481,550**
February - Interval metered	165,891,257	171,712,875	163,070,351	157,248,733	$ 0.08639	$ 13,584,718	$ 0.08639	$ 13,584,718	$ -
February - Non-interval metered	202,996,677	230,811,900	196,259,913	168,444,691	$ 0.10559	$ 17,786,075	$ 0.08639	$ 14,551,937	-$ 3,234,138
February - Total	**368,887,935**	**402,524,775**	**359,330,264**	**325,693,424**		**$ 31,370,793**		**$ 28,136,655**	**-$ 3,234,138**
March - Interval metered	150,111,033	163,070,351	179,832,353	166,873,036	$ 0.07135	$ 11,906,391	$ 0.07135	$ 11,906,391	$ -
March - Non-interval metered	230,838,883	196,259,913	177,415,769	211,994,739	$ 0.08409	$ 17,826,638	$ 0.07135	$ 15,125,825	-$ 2,700,813
March - Total	**380,949,916**	**359,330,264**	**357,248,123**	**378,867,775**		**$ 29,733,029**		**$ 27,032,216**	**-$ 2,700,813**
April - Interval metered	173,694,696	179,832,353	162,823,231	156,685,573	$ 0.10778	$ 16,887,571	$ 0.10778	$ 16,887,571	$ -
April - Non-interval metered	168,786,991	177,415,769	192,021,679	183,392,900	$ 0.06874	$ 12,606,428	$ 0.10778	$ 19,766,087	$ 7,159,659
April - Total	**342,481,687**	**357,248,123**	**354,844,909**	**340,078,474**		**$ 29,493,999**		**$ 36,653,658**	**$ 7,159,659**
May - Interval metered	152,398,947	162,823,231	160,945,955	150,521,672	$ 0.12307	$ 18,524,702	$ 0.12307	$ 18,524,702	$ -
May - Non-interval metered	213,494,264	192,021,679	177,735,124	199,207,709	$ 0.10623	$ 21,161,835	$ 0.12307	$ 24,516,493	$ 3,354,658
May - Total	**365,893,211**	**354,844,909**	**338,681,079**	**349,729,381**		**$ 39,686,537**		**$ 43,041,195**	**$ 3,354,658**
June - Interval metered	164,016,933	160,945,955	171,973,675	175,044,653	$ 0.11848	$ 20,739,290	$ 0.11848	$ 20,739,290	$ -
June - Non-interval metered	191,497,804	177,735,124	187,089,278	200,851,958	$ 0.11954	$ 24,009,843	$ 0.11848	$ 23,796,940	-$ 212,903
June - Total	**355,514,737**	**338,681,079**	**359,062,953**	**375,896,611**		**$ 44,749,134**		**$ 44,536,230**	**-$ 212,903**
July - Interval metered	170,320,465	171,973,675	181,512,900	179,859,691	$ 0.11280	$ 20,288,173	$ 0.11280	$ 20,288,173	$ -
July - Non-interval metered	188,484,856	187,089,278	198,532,244	199,927,822	$ 0.10652	$ 21,296,312	$ 0.11280	$ 22,551,858	$ 1,255,547
July - Total	**358,805,321**	**359,062,953**	**380,045,144**	**379,787,513**		**$ 41,584,485**		**$ 42,840,031**	**$ 1,255,547**
August - Interval metered	98,328,866	181,512,900	101,173,535	17,989,500	$ 0.10109	$ 1,818,559	$ 0.10109	$ 1,818,559	$ -
August - Non-interval metered	206,681,340	198,532,244	183,551,830	191,700,926	$ 0.11500	$ 22,045,606	$ 0.10109	$ 19,379,047	-$ 2,666,560
August - Total	**305,010,205**	**380,045,144**	**284,725,365**	**209,690,426**		**$ 23,864,165**		**$ 21,197,605**	**-$ 2,666,560**
Sept - Interval metered	110,236,940	101,173,535	102,601,801	111,665,206	$ 0.08864	$ 9,898,004	$ 0.08864	$ 9,898,004	$ -
Sept - Non-interval metered	195,412,953	183,551,830	184,127,938	195,989,061	$ 0.12739	$ 24,967,046	$ 0.08864	$ 17,372,470	-$ 7,594,576
Sept - Total	**305,649,894**	**284,725,365**	**286,729,738**	**307,654,267**		**$ 34,865,050**		**$ 27,270,474**	**-$ 7,594,576**
October - Interval metered	100,086,146	102,601,801	90,600,416	88,084,761	$ 0.12563	$ 11,066,089	$ 0.12563	$ 11,066,089	$ -
October - Non-interval metered	191,972,467	184,127,938	163,791,847	171,636,376	$ 0.10212	$ 17,527,507	$ 0.12563	$ 21,562,678	$ 4,035,171
October - Total	**292,058,612**	**286,729,738**	**254,392,263**	**259,721,137**		**$ 28,593,595**		**$ 32,628,766**	**$ 4,035,171**
November - Interval metered	100,424,409	90,600,416	100,807,577	110,631,569	$ 0.09704	$ 10,735,687	$ 0.09704	$ 10,735,687	$ -

November - Non-interval metered	181,523,792	163,791,847	162,135,875	179,867,820	$ 0.11164	$ 20,080,443	$ 0.09704	$ 17,454,373	-$ 2,626,070
November - Total	**281,948,200**	**254,392,263**	**262,943,452**	**290,499,389**		**$ 30,816,131**		**$ 28,190,061**	**-$ 2,626,070**
December - Interval metered	100,630,480	100,807,577	108,515,106	108,338,009	$ 0.09207	$ 9,974,680	$ 0.09207	$ 9,974,680	$ -
December - Non-interval metered	159,978,657	162,135,875	197,070,456	194,913,238	$ 0.08391	$ 16,355,170	$ 0.09207	$ 17,945,662	$ 1,590,492
December - Total	**260,609,137**	**262,943,452**	**305,585,562**	**303,251,247**		**$ 26,329,850**		**$ 27,920,342**	**$ 1,590,492**
2017 total - Interval metered	1,640,126,669	1,767,032,857	1,695,569,774	1,568,663,586		$ 157,412,347		$ 157,412,347	$ -
2017 total - Non-Interval metered	2,348,984,093	2,275,526,022	2,250,543,853	2,324,001,924		$ 230,780,517		$ 232,622,534	$ 1,842,016
2017 year - Total	**3,989,110,762**	**4,042,558,879**	**3,946,113,627**	**3,892,665,510**		**$ 388,192,864**		**$ 390,034,880**	**$ 1,842,016**

Note 5 **Reconciling Items**

	Item	Applicability of Reconciling Item (Y/N)	Amount (Quantify if it is a significant reconciling item)	Explanation
Net Change in Principal Balance in the GL (i.e. Transactions in the Year)			**$ 4,877,432**	
1a	Remove impacts to GA from prior year RPP Settlement true up process that are booked in current year	Y	($4,970,748)	DR $4,971k related to prior year but included in the GL in the current year, therefore, should record CR in current year
1b	Add impacts to GA from current year RPP Settlement true up process that are booked in subsequent year	Y	$4,539,888	CR $4,540k relates to current year but recorded in the GL in the following year, therefore, should record the CR in current year
2a	Remove prior year end unbilled to actual revenue differences	N		No prior year end unbilled to actual revenue differences booked in current year
2b	Add current year end unbilled to actual revenue differences	N		No current year end unbilled to actual revenue differences booked in the following year
3a	Remove difference between prior year accrual to forecast from long term load transfers	N		No difference between prior year accrual to forecast from long term load transfers
3b	Add difference between current year accrual to forecast from long term load transfers	N		No difference between current year accrual to forecast from long term load transfers
4	Remove GA balances pertaining to Class A customers	N		Insignificant amount relating to Class A customers
5	Significant prior period billing adjustments included in current year GL balance but would not be included in the billing consumption used in the GA Analysis	N		No significant prior period billing adjustments
6	Total calculated costs using published rates compared to the actual IESO costs	N		Not a reconciling item
7				
8				
9				
10				
	Adjusted Net Change in Principal Balance in the GL		$4,446,572	
	Net Change in Expected GA Balance in the Year Per Analysis		$1,842,016	
	Unresolved Difference		($2,604,555)	
	Unresolved Difference as % of Expected GA Payments to IESO		-0.7%	

Note 7 **Cumulative Expected GA Balance (if multiple years requested for disposition)**

Year	Annual Net Change in Expected GA Balance from GA Analysis (cell K47)	Annual Net Change in Principal GA Requesed for Disposition (cell K48)	Preliminary Difference (cell K49)	Total Reconciling Items (cell D70)	Unresolved Difference	Payments to IESO (cell J47)	Unresolved Difference as % of Expected GA Payments to IESO
2017	$ 1,842,016	$ 4,877,432	$ 3,035,416	$ 4,446,572	-$ 2,604,555	$ 390,034,880	-0.7%
					$ -		0.0%
					$ -		0.0%
					$ -		0.0%
Cumulative Balance	**$ 1,842,016.45**	**$ 4,877,432.07**	**$ 3,035,415.62**	**$ 4,446,571.87**	**-$ 2,604,555.41**	**$ 390,034,880.21**	**N/A**

Additional Notes and Comments

ATTACHMENT 27
LOST REVENUE ADJUSTMENT MECHANISM VARIANCE ACCOUNT WORK FORM
POWERSTREAM RZ

Ontario Energy Board

LRAMVA Work Form: Summary Tab

Version 2.0 (2017)

Legend

	User Inputs (Green)
	Drop Down List (Blue)
	Auto Populated Cells (White)
	Instructions (Grey)

LDC Name Alectra -former PowerStream

Application Details

Please fill in the requested information: a) the amounts approved in the previous LRAMVA application, b) details on the current application, and c) documentation of changes if applicable.

A. Previous LRAMVA Application

Previous LRAMVA Application (EB#)	EB-2014-0108/EB-2015-0003
Application of Previous LRAMVA Claim	2015 IRM Application/2016 CIR
Period of LRAMVA Claimed in Previous Application	2011-2012/2013
Amount of LRAMVA Claimed in Previous Application	$ 206,935.00

B. Current LRAMVA Application

Current LRAMVA Application (EB#)		EB-2017-0024
Application of Current LRAMVA Claim		2018 IRM Application
Period of New LRAMVA in this Application		2014-2015
Actual Lost Revenues ($)	A	$ -
Forecast Lost Revenues ($)	B	$ -
Carrying Charges ($)	C	$ 89,513
LRAMVA ($) for Account 1568	A-B+C	$ 89,513

C. Documentation of Changes

Original Amount	$ 89,512.73
Amount for Final Disposition	$ 89,512.73

Table 1-a. LRAMVA Totals by Rate Class

Please update the customer rate classes applicable to the LDC in Table 1-a below. This will update all tables throughout the workform. The LRAMVA total by rate class in Table 1-a should be used to inform the determination of rate riders in the Deferral and Variance Account Work Form or IRM Rate Generator Model. If the LDC has more than 14 customer classes, LDCs are required to add rows to Table 1-a and update all tables and formulas in the work form accordingly. Please also ensure that the principle amounts in column E of Table 1-a capture the appropriate years and amounts for the LRAMVA claim.

Customer Class	Billing Unit	Principle ($)	Carrying Charges ($)	Total LRAMVA ($)	
Residential	kWh	$0	$22,451	$22,451	charge
GS<50 kW	kWh	$0	$22,003	$22,003	charge
GS>50 kW	kW	$0	$35,569	$35,569	charge
Large Use	kW	$0	-$188	-$188	credit to customer
Unmetered Scattered Load	kWh	$0	-$118	-$118	credit to customer
Sentinel Lighting	kW	$0	-$6	-$6	credit to customer
Street Lighting	kW	$0	$9,802	$9,802	charge
		$0	$0	$0	
		$0	$0	$0	
		$0	$0	$0	
		$0	$0	$0	
		$0	$0	$0	
		$0	$0	$0	
		$0	$0	$0	
Total		**$0**	**$89,513**	**$89,513**	**net revenue**

Table 1-b. Annual LRAMVA Breakdown by Year and Rate Class

In column C of Table 1-b below, please indicate with a 'check mark' the years in which LRAMVA has been claimed. This is to ensure that there are no amounts claimed retroactively. If you have inserted a check-mark for a particular year, please delete the amounts associated with actual and forecast lost revenues for all rate classes for that year, up to and including the total. Any prior years that a distributor has claimed lost revenues should not be included in the current LRAMVA disposition, with the exception of the case noted below.

If LDCs are seeking to claim true-up amounts that were previously approved by the OEB, please note that the "Amount Cleared" rows are applicable to the LDC and should be filled out. This may relate to claiming the difference in LRAM approved before the May 19, 2016 Peak Demand Consultation, and the lost revenues that would have been incurred after that consultation, as approved by the OEB. If this is the case, reference to the decision must be noted in the rate application. If this is not the case, LDCs are requested to leave those rows blank.

Depending on the period of LRAMVA to be claimed in the current application, LDCs are expected to adjust the applicable totals for carrying charges in row 83 of this table and the years included in the Total LRAMVA balance in row 84, as appropriate.

Description	LRAMVA Previously Claimed	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting								Total
		kWh	kWh	kW	kW	kWh	kW	kW								
2011 Actuals	Yes								$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2011 Forecast									$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared	$0.00															$0.00
2012 Actuals	Yes								$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2012 Forecast									$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared	$0.00															$0.00
2013 Actuals	Yes								$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2013 Forecast									$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared	$0.00															$0.00
2014 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2014 Forecast		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2015 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2015 Forecast		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2016 Actuals		$1,265,387.09	$870,449.57	$1,679,587.02	$0.00	$0.00	$0.00	$186,097.26	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$4,001,520.94
2016 Forecast		($623,331.84)	($241,180.80)	($662,355.86)	($5,378.76)	($3,379.76)	($163.90)	($19,365.08)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	($1,555,156.00)
Amount Cleared																
2017 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2017 Forecast		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2018 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2018 Forecast		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2019 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

2019 Forecast		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
2020 Actuals		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2020 Forecast		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																
Carrying Charges		$22,450.53	$22,003.43	$35,569.18	($188.08)	($118.18)	($5.73)	$9,801.57	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$89,512.73
Total LRAMVA Balance		**$664,506**	**$651,272**	**$1,052,800**	**-$5,567**	**-$3,498**	**-$170**	**$176,534**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$2,535,878**

Note: LDC to make note of assumptions included above, if any

Table 1-c. Breakdown of Incremental and Persisting Lost Revenues Amounts (Dollars)

LDCs are requested to clear the cells in the table to show only the amounts related to this LRAMVA application. This table is a check on the LRAMVA disposition providing a breakdown of actual incremental and persisting savings by year.

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Total
2011	$ -	$ -	$ -	$ -	$ -	$ 261,163.59	$ -	$ -	$ -	$ -	$ 261,163.59
2012		$ -	$ -	$ -	$ -	$ 406,153.91	$ -	$ -	$ -	$ -	$ 406,153.91
2013			$ -	$ -	$ -	$ 471,518.58	$ -	$ -	$ -	$ -	$ 471,518.58
2014				$ -	$ -	$ 811,245.63	$ -	$ -	$ -	$ -	$ 811,245.63
2015					$ -	$ 803,201.72	$ -	$ -	$ -	$ -	$ 803,201.72
2016						$ 1,062,140.26	$ -	$ -	$ -	$ -	$ 1,062,140.26
2017							$ -	$ -	$ -	$ -	$ -
2018								$ -	$ -	$ -	$ -
2019									$ -	$ -	$ -
2020										$ -	$ -
Actual Lost Revenues	$ -	$ -	$ -	$ -	$ -	$ 3,815,423.69	$ -	$ -	$ -	$ -	$ 3,815,423.69
Forecast Lost Revenues	$ -	$ -	$ -	$ -	$ -	$ 1,555,156.00	$ -	$ -	$ -	$ -	$ 1,555,156.00
Carrying Charges	$ -	$ -	$ -	$ 160.86	$ 904.01	$ 14,616.64	$ 45,661.64	$ 89,512.73	$ 89,512.73	$ 89,512.73	$ 329,881.34
Total	$ -	$ -	$ -	$ 160.86	$ 904.01	$ 2,274,884.32	$ 45,661.64	$ 89,512.73	$ 89,512.73	$ 89,512.73	$ 2,590,149.02

Note: LDC to make note of assumptions included above, if any

Ontario Energy Board

LRAMVA Work Form:
Summary of Changes

Version 2.0 (2017)

Legend	
	User Inputs (Green)
	Drop Down List (Blue)
	Instructions (Grey)

Table X-1. Changes in Assumptions from Generic Inputs in Work Form

Please document any changes in assumptions made to the work form that affect the calculation of LRAMVA. This may include, but are not limited to, the use of different monthly multipliers to claim demand savings from energy efficiency programs; use of different rate allocations between savings and adjustments; claiming historical savings persistence beyond a re-basing year; inclusion of additional adjustments affecting distribution rates; use of a different LRAMVA threshold; etc. All important changes should be highlighted in the work form as well.

No.	Tab	Cell Reference	Description	Rationale
1	4. 2011-2014 LRAM	B325	Replaced "Small Commercial Demand Response (HD)" with "Business Refrigeration Local	Not in the list of programs; there are no additional rows to enter programs that not listed
2	4. 2011-2014 LRAM	B454	Replaced "Small Commercial Demand Response (HD)" with "Business Refrigeration Local	Not in the list of programs; there are no additional rows to enter programs that not listed
3				
4	4. 2011-2014 LRAM	N326-N326, N454-N455	Added Monthly Multiplies of 12	Business Refrigeration program - savings for GS<50 and GS>50 classes
5	1. LRAMVA Summary			
6		Added Tab 8	Tab added to include S/L adjustment into the LRAMVa model and total claim	For consistent reporting purposes
7	1. LRAMVA Summary	E34, F34	Added principal and carrying interest from Tab 8	For consistent reporting purposes
8				
9				
10				
11				
12				
13				
14				
etc.				

Table X-2. Updates to LRAMVA Disposition

LDCs are requested to document any changes related to interrogatories or questions during the application process that affect the LRAMVA amount.

No.	Tab	Cell Reference	Description	Rationale
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
etc.				

Ontario Energy Board

LRAMVA Work Form:
Forecast Lost Revenues

Version 2.0 (2017)

Legend

Legend
User Inputs (Green)
Drop Down List (Blue)
Auto Populated Cells (White)
Instructions (Grey)

Table 2-a. LRAMVA Threshold 2013

Please provide the LRAMVA threshold approved in the cost of service (COS) application, which is used as the comparator against actual savings in the period of the LRAMVA claim. The LRAMVA threshold should generally be consistent with the annualized savings targets developed from Appendix 2-I. If a manual update is required to reflect a different allocation of forecast savings that was approved by the OEB, please note the changes and provide rationale for the change in Tab 1-a.

	Total	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting							
		kWh	kWh	kW	kW	kWh	kW	kW							
kWh	137,099,754	44,207,932	16,984,563	73,463,176	1,251,684	208,627	7,674	976,097							
kW	202,051			195,431	3,732		20	2,868							
Summary		44,207,932	16,984,563	195,431	3,732	208,627	20	2,868	0	0	0	0	0	0	0

Basis of Threshold: 0.5* 201X + 20XX + 0.5 * 20XX (if available)

Source of Threshold: 2013 Settlement Agreement, p. X

Table 2-b. LRAMVA Threshold 2017

Please provide the LRAMVA threshold approved in the last COS application, which is used as the comparator against actual savings in the period of the LRAMVA claim. The LRAMVA threshold should generally be consistent with the annualized savings targets developed from Appendix 2-I. If a manual update is required to reflect a different allocation of forecast savings that was approved by the OEB, please note the changes and provide rationale for the change in Tab 1-a.

	Total				Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting							
		kWh	kWh	kW	kW	kWh	kW	kW							
kWh	80,983,843	48,703,932	32,279,911												
kW	321,969			321,969											
Summary		48,703,932	32,279,911	321,969	0	0	0	0	0	0	0	0	0	0	0

Basis of Threshold: 0.5* 201X + 20XX + 0.5 * 20XX (if available)

Source of Threshold: 20XX Settlement Agreement, p. X

Table 2-c. Inputs for LRAMVA Thresholds

Please complete Table 2-c below by selecting the appropriate LRAMVA threshold year in column C. The LRAMVA threshold values in Table 2-c will auto-populate from Tables 2-a and 2-b depending on the year selected. If there was no LRAMVA threshold established for a particular year, please select the "blank" option, although it is generally expected that 2 COS applications would have been approved during the 2011 to 2020 period. The LRAMVA threshold values in Table 2-c will be auto-populated in Tabs 4 and 5 of this work form.

Year	LRAMVA Threshold (select year)	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting							
		kWh	kWh	kW	kW	kWh	kW	kW							
2011		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	2013	44,207,932	16,984,563	195,431	3,732	208,627	20	2,868	0	0	0	0	0	0	0
2014	2013	44,207,932	16,984,563	195,431	3,732	208,627	20	2,868	0	0	0	0	0	0	0
2015	2013	44,207,932	16,984,563	195,431	3,732	208,627	20	2,868	0	0	0	0	0	0	0
2016	2013	44,207,932	16,984,563	195,431	3,732	208,627	20	2,868	0	0	0	0	0	0	0
2017	2017	48,703,932	32,279,911	321,969	0	0	0	0	0	0	0	0	0	0	0
2018		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2019		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2020		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: LDC to make note of assumptions included above, if any

Ontario Energy Board

LRAMVA Work Form: Distribution Rates

Version 2.0 (2017)

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Tables

Table 3

Table 3-a.

Table 3. Inputs for Distribution Rates and Adjustments by Rate Class

The rate classes in column B of Table 3 below are auto-populated from the customer class inputs in Table 1-a of the Summary Tab. Please provide the distribution rates by rate year and applicable adjustments per rate class starting from column D of Table 3 below. Any adjustments that affect distribution rates can be incorporated in the calculation by expanding the "plus" button at the left hand bar. Table 3 will convert the distribution rates to a calendar year rate (January to December) based on the number of months from January to the start of the LDC's rate year, entered in row 16 of Table 3 (referred to as period 1). If rates are already on a January 1 to December 31 timeline, please enter 0 in row 16.

	Billing Unit	May 1, 2010 to Apr 30, 2011	May 1, 2011 to Apr 30, 2012	May 1, 2011 to Dec 31, 2012	Jan 1, 2013 to Dec 31, 2013	Jan 1, 2014 to Dec 31, 2014	Jan 1, 2015 to Dec 31, 2015	Jan 1, 2016 to Dec 31, 2016	Jan 1, 2017 to Dec 31, 2017	update	update	update	update	
Rate Year		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Period 1 (# months)		*4*	*4*	*4*	*1*	*2*	*12*	*9*	*0*					
Period 2 (# months)		*8*	*8*	*5*	*11*	*10*	*0*	*3*	*12*	*12*	*12*	*12*	*12*	
Residential	kWh							$ 0.0143						
Rate rider for tax sharing														
Rate rider for foregone revenue														
Changes in Transformer Allowance														
Adjusted rate								$ 0.0143		$ -	$ -	$ -		
Calendar year equivalent								**$ 0.0141**		**$ -**	**$ -**	**$ -**		
GS<50 kW	kWh							$ 0.0142						
Rate rider for tax sharing														
Rate rider for foregone revenue								$ 0.0009						
Changes in Transformer Allowance														
Adjusted rate								$ 0.0151		$ -	$ -	$ -		
Calendar year equivalent								**$ 0.0142**		**$ -**	**$ -**	**$ -**		
GS>50 kW	kW							$ 3.3877						
Rate rider for tax sharing														
Rate rider for foregone revenue								$ 0.1857						
Changes in Transformer Allowance														
Adjusted rate								$ 3.5734		$ -	$ -	$ -		
Calendar year equivalent								**$ 3.3892**		**$ -**	**$ -**	**$ -**		
Large Use	kW							$ 1.4414						
Rate rider for tax sharing														
Rate rider for foregone revenue								$ 0.0759						
Changes in Transformer Allowance														
Adjusted rate								$ 1.5173		$ -	$ -	$ -		
Calendar year equivalent								**$ 1.4413**		**$ -**	**$ -**	**$ -**		
Unmetered Scattered Load	kWh							$ 0.0162						
Rate rider for tax sharing														
Rate rider for foregone revenue								$ 0.0009						
Changes in Transformer Allowance														
Adjusted rate								$ 0.0171		$ -	$ -	$ -		
Calendar year equivalent								**$ 0.0162**		**$ -**	**$ -**	**$ -**		
Sentinel Lighting	kW							$ 8.1615						Rates switched 2016
Rate rider for tax sharing														
Rate rider for foregone revenue								$ 0.4232						
Changes in Transformer Allowance														
Adjusted rate								$ 8.5847		$ -	$ -	$ -		
Calendar year equivalent								**$ 8.1591**		**$ -**	**$ -**	**$ -**		
Street Lighting	kW							$ 6.7744						Rates switched 2016
Rate rider for tax sharing														
Rate rider for foregone revenue								$ 0.2721						

Changes in Transformer Allowance													
Adjusted rate								$ 7.0465		$ -	$ -	$ -	
Calendar year equivalent								**$ 6.7526**		**$ -**	**$ -**	**$ -**	
0													
Rate rider for tax sharing													
Rate rider for foregone revenue													
Changes in Transformer Allowance													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Rate rider for tax sharing													
Rate rider for foregone revenue													
Changes in Transformer Allowance													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Rate rider for tax sharing													
Rate rider for foregone revenue													
Changes in Transformer Allowance													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Rate rider for tax sharing													
Rate rider for foregone revenue													
Changes in Transformer Allowance													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Rate rider for tax sharing													
Rate rider for foregone revenue													
Changes in Transformer Allowance													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Rate rider for tax sharing													
Rate rider for foregone revenue													
Changes in Transformer Allowance													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Rate rider for tax sharing													
Rate rider for foregone revenue													
Changes in Transformer Allowance													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	

Note: LDC to make note of assumptions affecting the distribution rates above, if any

Table 3-a. Distribution Rates by Rate Class

Table 3-a below pulls the average distribution rates from Table 3 above. Please ensure that the distribution rates relevant to the years of the LRAMVA disposition are used by clearing the rates for year(s) that are not part of the LRAMVA claim. The distribution rates that remain in Table 3-a will be carried over to Tabs 4 and 5 of the work form to calculate lost revenues.

Year	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting							
	kWh	kWh	kW	kW	kWh	kW	kW							
2011	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2012	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2013	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2014	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2015	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2016	$0.0141	$0.0142	$3.3892	$1.4413	$0.0162	$8.1591	$6.7526	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2017	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2018	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2019	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2020	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000

Note: LDC to make note of assumptions affecting the distribution rates above, if any

Ontario Energy Board

LRAMVA Work Form:
2011 - 2014 Lost Revenues Work Form

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Instructions

1. LDCs can apply for disposition of LRAMVA amounts at any time, but at a minimum, must do so as part of a cost of service (COS) application. The following LRAMVA work forms apply to LDCs that need to recover lost revenues fr input or manually link the savings, adjustments and program savings persistence in these tables from the LDC's Persistence Reports provided by the IESO (which are pasted following Tab 7. Persistence Data, tabs "7-a. 2011, 7-b. 2(tables below.

2. Please ensure that the IESO verified savings adjustments apply back to the program year it relates to. For example, savings adjustments related to 2012 programs that were reported by the IESO in 2013 should be included in the : for persisting savings to be claimed in future years, past year's initiative level savings results need to be filled out in the tables below. If the IESO adjustments were made available to the LDC after the LRAMVA was approved, the per can be claimed as past approved LRAMVA amounts are considered to be final.

3. The work forms below include the monthly multipliers for most programs in order to claim demand savings from energy efficiency programs, consistent with the monthly multipliers indicated in the OEB's updated LRAM policy relate 0182. Demand Response (DR3) savings should generally not be included with the LRAMVA calculation, unless suported by empirical evidence. LDCs are requested to confirm the monthly multipliers for all programs each year as pla different monthly multiplier is used, please include rationale in Tab 1-a and highlight the change.

4. LDC are requested to input the applicable rate class allocation percentages indicating the customer's share of consumption to allocate actual savings to the rate classes. The generic template currently includes the same allocation savings adjustments. If a different allocation is proposed for savings adjustments, please highlight the change and provide rationale in Tab 1-a. Please also be advised that the same rate classes (of up to 14) are carried over from the manually update the tables and formulas below if more rate classes are needed.

5. The persistence of future savings is expected to be included in the distributor's load forecast after re-basing. LDCs are requested to delete the applicable savings persistence rows (auto-calculated after the LRAMVA totals for the y savings is already captured in the updated load forecast. LDCs are requested to provide assumptions about the years that persistence is captured in the load forecast calculation in the "Notes" section below each table. If this is not th articulate the rationale for including the persistence of future savings beyond the re-basing year in Tab 1-a.

Tables

Table 4-a. 2011 Lost Revenues Work Form

Go to Persistence Report

Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings				
		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		2011	2012	2013	2014	2015	2016
Consumer Program																		

Actual CDM Savings in 2011		33,668,862											14,617					
Forecast CDM Savings in 2011																		
Variance to CDM 2011-2014 report		5,192,089											0					
Distribution Rate in 2011																		
Lost Revenue in 2011 from 2011 programs																		
Forecast Lost Revenues in 2011																		
LRAMVA in 2011																		
2011 Savings Persisting in 2012																		
2011 Savings Persisting in 2013																		
2011 Savings Persisting in 2014																		
2011 Savings Persisting in 2015																		
2011 Savings Persisting in 2016																		
2011 Savings Persisting in 2017																		
2011 Savings Persisting in 2018																		
2011 Savings Persisting in 2019																		
2011 Savings Persisting in 2020																		

Note: LDC to make note of assumptions included above

Table 4-b. 2012 Lost Revenues Work Form Return to top Go to Persistence Report

Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings				
		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		2012	2013	2014	2015	2016	2017
Consumer Program																		
Actual CDM Savings in 2012		47,585,871											18,513					
Forecast CDM Savings in 2012																		
Variance to CDM 2011-2014 report		-1											1					
Distribution Rate in 2012																		
Lost Revenue in 2012 from 2011 programs																		
Lost Revenue in 2012 from 2012 programs																		
Total Lost Revenues in 2012																		
Forecast Lost Revenues in 2012																		
LRAMVA in 2012																		
2012 Savings Persisting in 2013																		
2012 Savings Persisting in 2014																		
2012 Savings Persisting in 2015																		
2012 Savings Persisting in 2016																		
2012 Savings Persisting in 2017																		
2012 Savings Persisting in 2018																		
2012 Savings Persisting in 2019																		
2012 Savings Persisting in 2020																		

Note: LDC to make note of assumptions included above

Table 4-c. 2013 Lost Revenues Work Form Return to top Go to Persistence Report

		Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)		Net Demand Savings (kW)	Net Peak Demand Savings

Program	Results Status	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Monthly Multiplier	2013	2014	2015	2016	2017	2018
Consumer Program																		
Actual CDM Savings in 2013		58,023,337											32,555					
Forecast CDM Savings in 2013																		
Variance to CDM 2011-2014 report		-1											0					
Distribution Rate in 2013																		
Lost Revenue in 2013 from 2011 programs																		
Lost Revenue in 2013 from 2012 programs																		
Lost Revenue in 2013 from 2013 programs																		
Total Lost Revenues in 2013																		
Forecast Lost Revenues in 2013																		
LRAMVA in 2013																		
2013 Savings Persisting in 2014																		
2013 Savings Persisting in 2015																		
2013 Savings Persisting in 2016																		
2013 Savings Persisting in 2017																		
2013 Savings Persisting in 2018																		
2013 Savings Persisting in 2019																		
2013 Savings Persisting in 2020																		

Note: LDC to make note of assumptions included above

Table 4-d. 2014 Lost Revenues Work Form Return to Top Go to Persistence Report

Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings				
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		2014	2015	2016	2017	2018	2019
Consumer Program																		
Actual CDM Savings in 2014		87,740,970											42,675					
Forecast CDM Savings in 2014																		
Variance to CDM 2011-2014 report		0											0					
Distribution Rate in 2014																		
Lost Revenue in 2014 from 2011 programs																		
Lost Revenue in 2014 from 2012 programs																		
Lost Revenue in 2014 from 2013 programs																		
Lost Revenue in 2014 from 2014 programs																		
Total Lost Revenues in 2014																		
Forecast Lost Revenues in 2014																		
LRAMVA in 2014																		
2014 Savings Persisting in 2015																		
2014 Savings Persisting in 2016																		
2014 Savings Persisting in 2017																		
2014 Savings Persisting in 2018																		
2014 Savings Persisting in 2019																		
2014 Savings Persisting in 2020																		

Note: LDC to make note of assumptions included above

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Legend

Instructions

rom the 2011-2014 period. Please
012, ... 7-j. 2020") to complete the

2012 program savings table. In order
rsistence of those savings adjustments

d to peak demand savings in EB-2016-
aceholder values are provided. If a

percentage for programs and its
e Summary Tab 1. LDCs would need to

year) if future year's persistence of
ne case, the LDC is requested to clearly

Tables

Table 4-a. 2011 Lost Revenues Work Form

Program	Persistence (kW)				Rate Allocations for LRAMVA											
	2017	2018	2019	2020	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting					
Consumer Program					kWh	kWh	kW	kW	kWh	kW	kW					

Actual CDM Savings in 2011					**3,782,022**	**7,280,610**	**26,999**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Forecast CDM Savings in 2011					**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Variance to CDM 2011-2014 report																
Distribution Rate in 2011					$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000
Lost Revenue in 2011 from 2011 programs					**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Forecast Lost Revenues in 2011					**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
LRAMVA in 2011																
2011 Savings Persisting in 2012					3,763,723	7,262,488	26,962	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2013					3,763,723	7,028,982	26,956	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2014					8,945,422	5,627,647	26,934	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2015					8,346,549	5,396,438	25,024	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2016					7,195,284	5,355,323	24,686	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2017					6,507,195	2,250,186	22,574	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2018					6,497,362	2,071,472	20,401	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2019					7,064,750	1,941,431	18,078	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2020					5,305,397	1,941,431	18,078	0	0	0	0	0	0	0	0	0

Note: LDC to make note of assumptions included above

Table 4-b. 2012 Lost Revenues Work Form

Program	Persistence (kW)				Rate Allocations for LRAMVA											
	2018	2019	2020	2021	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting					
Consumer Program					kWh	kWh	kW	kW	kWh	kW	kW					
Actual CDM Savings in 2012					**5,913,745**	**11,605,581**	**61,842**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Forecast CDM Savings in 2012					**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Variance to CDM 2011-2014 report																
Distribution Rate in 2012					$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000
Lost Revenue in 2012 from 2011 programs					$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2012 from 2012 programs					$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total Lost Revenues in 2012					**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Forecast Lost Revenues in 2012					**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
LRAMVA in 2012																
2012 Savings Persisting in 2013					5,866,225	11,410,518	59,962	0	0	0	0	0	0	0	0	0
2012 Savings Persisting in 2014					5,866,225	10,562,874	59,887	0	0	0	0	0	0	0	0	0
2012 Savings Persisting in 2015					5,863,821	9,278,551	59,183	0	0	0	0	0	0	0	0	0
2012 Savings Persisting in 2016					5,400,626	9,277,427	58,499	0	0	0	0	0	0	0	0	0
2012 Savings Persisting in 2017					4,690,258	6,643,803	55,925	0	0	0	0	0	0	0	0	0
2012 Savings Persisting in 2018					4,201,582	6,522,381	54,990	0	0	0	0	0	0	0	0	0
2012 Savings Persisting in 2019					4,196,916	6,513,004	54,990	0	0	0	0	0	0	0	0	0
2012 Savings Persisting in 2020					3,959,486	6,281,978	52,136	0	0	0	0	0	0	0	0	0

Note: LDC to make note of assumptions included above

Table 4-c. 2013 Lost Revenues Work Form

	Persistence (kW)	Rate Allocations for LRAMVA

Program	2019	2020	2021	2022	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting					
Consumer Program					kWh	kWh	kW	kW	kWh	kW	kW					
Actual CDM Savings in 2013					**5,785,909**	**9,516,689**	**91,899**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Forecast CDM Savings in 2013					**44,207,932**	**16,984,563**	**195,431**	**3,732**	**208,627**	**20**	**2,868**	**0**	**0**	**0**	**0**	**0**
Variance to CDM 2011-2014 report																
Distribution Rate in 2013					$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000
Lost Revenue in 2013 from 2011 programs					$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2013 from 2012 programs					$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2013 from 2013 programs					$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total Lost Revenues in 2013					**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Forecast Lost Revenues in 2013					**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
LRAMVA in 2013																
2013 Savings Persisting in 2014					5,752,822	9,494,260	86,246	0	0	0	0	0	0	0	0	0
2013 Savings Persisting in 2015					5,661,202	9,046,628	86,114	0	0	0	0	0	0	0	0	0
2013 Savings Persisting in 2016					5,273,110	7,579,947	85,428	0	0	0	0	0	0	0	0	0
2013 Savings Persisting in 2017					5,035,852	4,208,329	79,789	0	0	0	0	0	0	0	0	0
2013 Savings Persisting in 2018					4,789,814	4,170,654	77,525	0	0	0	0	0	0	0	0	0
2013 Savings Persisting in 2019					4,758,129	4,170,654	77,525	0	0	0	0	0	0	0	0	0
2013 Savings Persisting in 2020					4,745,439	4,155,187	77,503	0	0	0	0	0	0	0	0	0

Note: LDC to make note of assumptions included above

Table 4-d. 2014 Lost Revenues Work Form

Program	Persistence (kW)				Rate Allocations for LRAMVA											
	2020	2021	2022	2023	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting					
Consumer Program					kWh	kWh	kW	kW	kWh	kW	kW					
Actual CDM Savings in 2014					**15,843,307**	**20,665,641**	**110,223**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Forecast CDM Savings in 2014					**44,207,932**	**16,984,563**	**195,431**	**3,732**	**208,627**	**20**	**2,868**	**0**	**0**	**0**	**0**	**0**
Variance to CDM 2011-2014 report																
Distribution Rate in 2014					$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000
Lost Revenue in 2014 from 2011 programs					$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2014 from 2012 programs					$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2014 from 2013 programs					$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Lost Revenue in 2014 from 2014 programs					$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total Lost Revenues in 2014					**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Forecast Lost Revenues in 2014					**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
LRAMVA in 2014																
2014 Savings Persisting in 2015					13,845,910	18,513,635	109,168	0	0	0	0	0	0	0	0	0
2014 Savings Persisting in 2016					13,159,783	18,007,059	109,168	0	0	0	0	0	0	0	0	0
2014 Savings Persisting in 2017					13,141,079	15,093,923	107,845	0	0	0	0	0	0	0	0	0
2014 Savings Persisting in 2018					12,902,164	15,093,923	103,033	0	0	0	0	0	0	0	0	0
2014 Savings Persisting in 2019					12,683,366	14,758,566	100,468	0	0	0	0	0	0	0	0	0
2014 Savings Persisting in 2020					12,674,558	14,542,210	97,954	0	0	0	0	0	0	0	0	0

Note: LDC to make note of assumptions included above

Ontario Energy Board

Legend

Instructions

Tables

Table 4-a. 2011 Lost Revenues Work Form

Program			
			Total
Consumer Program			

Actual CDM Savings in 2011	**0**	**0**	
Forecast CDM Savings in 2011	**0**	**0**	
Variance to CDM 2011-2014 report			
Distribution Rate in 2011	$0.00000	$0.00000	
Lost Revenue in 2011 from 2011 programs	**$0.00**	**$0.00**	**$ -**
Forecast Lost Revenues in 2011	**$0.00**	**$0.00**	**$ -**
LRAMVA in 2011			**$ -**
2011 Savings Persisting in 2012	0	0	
2011 Savings Persisting in 2013	0	0	
2011 Savings Persisting in 2014	0	0	
2011 Savings Persisting in 2015	0	0	
2011 Savings Persisting in 2016	0	0	
2011 Savings Persisting in 2017	0	0	
2011 Savings Persisting in 2018	0	0	
2011 Savings Persisting in 2019	0	0	
2011 Savings Persisting in 2020	0	0	

Note: LDC to make note of assumptions included above

Table 4-b. 2012 Lost Revenues Work Form

Program			Total
Consumer Program			
Actual CDM Savings in 2012	**0**	**0**	
Forecast CDM Savings in 2012	**0**	**0**	
Variance to CDM 2011-2014 report			
Distribution Rate in 2012	$0.00000	$0.00000	
Lost Revenue in 2012 from 2011 programs	$0.00	$0.00	$ -
Lost Revenue in 2012 from 2012 programs	$0.00	$0.00	$ -
Total Lost Revenues in 2012	**$0.00**	**$0.00**	**$ -**
Forecast Lost Revenues in 2012	**$0.00**	**$0.00**	**$ -**
LRAMVA in 2012			**$ -**
2012 Savings Persisting in 2013	0	0	
2012 Savings Persisting in 2014	0	0	
2012 Savings Persisting in 2015	0	0	
2012 Savings Persisting in 2016	0	0	
2012 Savings Persisting in 2017	0	0	
2012 Savings Persisting in 2018	0	0	
2012 Savings Persisting in 2019	0	0	
2012 Savings Persisting in 2020	0	0	

Note: LDC to make note of assumptions included above

Table 4-c. 2013 Lost Revenues Work Form

Program			Total	
Consumer Program				
Actual CDM Savings in 2013	**0**	**0**		
Forecast CDM Savings in 2013	**0**	**0**		
Variance to CDM 2011-2014 report				
Distribution Rate in 2013	$0.00000	$0.00000		
Lost Revenue in 2013 from 2011 programs	$0.00	$0.00	$	-
Lost Revenue in 2013 from 2012 programs	$0.00	$0.00	$	-
Lost Revenue in 2013 from 2013 programs	$0.00	$0.00	$	-
Total Lost Revenues in 2013	**$0.00**	**$0.00**	**$**	**-**
Forecast Lost Revenues in 2013	**$0.00**	**$0.00**	**$**	**-**
LRAMVA in 2013			**$**	**-**
2013 Savings Persisting in 2014	0	0		
2013 Savings Persisting in 2015	0	0		
2013 Savings Persisting in 2016	0	0		
2013 Savings Persisting in 2017	0	0		
2013 Savings Persisting in 2018	0	0		
2013 Savings Persisting in 2019	0	0		
2013 Savings Persisting in 2020	0	0		

Note: LDC to make note of assumptions included above

Table 4-d. 2014 Lost Revenues Work Form

Program			Total	
Consumer Program				
Actual CDM Savings in 2014	**0**	**0**		
Forecast CDM Savings in 2014	**0**	**0**		
Variance to CDM 2011-2014 report				
Distribution Rate in 2014	$0.00000	$0.00000		
Lost Revenue in 2014 from 2011 programs	$0.00	$0.00	$	-
Lost Revenue in 2014 from 2012 programs	$0.00	$0.00	$	-
Lost Revenue in 2014 from 2013 programs	$0.00	$0.00	$	-
Lost Revenue in 2014 from 2014 programs	$0.00	$0.00	$	-
Total Lost Revenues in 2014	**$0.00**	**$0.00**	**$**	**-**
Forecast Lost Revenues in 2014	**$0.00**	**$0.00**	**$**	**-**
LRAMVA in 2014			**$**	**-**
2014 Savings Persisting in 2015	0	0		
2014 Savings Persisting in 2016	0	0		
2014 Savings Persisting in 2017	0	0		
2014 Savings Persisting in 2018	0	0		
2014 Savings Persisting in 2019	0	0		
2014 Savings Persisting in 2020	0	0		

Note: LDC to make note of assumptions included above

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LRAMVA Work Form: 2015 - 2020 Lost Revenues Work Form

Legend

- User Inputs (Green)
- Auto Populated Cells (White)
- Instructions (Grey)

Instructions

1. LDCs can apply for disposition of LRAMVA amounts at any time, but at a minimum, must do so as part of a cost of service (COS) application. The following LRAMVA work forms apply to LDCs that need to recover lost revenues from

2. Please ensure that the IESO verified savings adjustments apply back to the program year it relates to. For example, savings adjustments related to 2016 programs that were reported by

3. The work forms below include the monthly multipliers for most programs in order to claim demand savings from energy efficiency programs, consistent with the monthly multipliers

4. LDC are requested to input the applicable rate class allocation percentages indicating the customer's share of consumption to allocate actual savings to the rate classes. The generic

5. The persistence of future savings is expected to be included in the distributor's load forecast after re-basing. LDCs are requested to delete the applicable savings persistence rows (auto-calculated after the LRAMVA totals for the year)

Tables

Table 5-a. 2015 Lost Revenues Work Form

Go to Persistence Report

	Program	Results Status	Net Energy Savings (kWh)	Net Demand Savings (kW)	Rate Allocations for LRAMVA														
			2015	2015	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting								Total
	Legacy Framework				kWh	kWh	kW	kW	kWh	kW	kW								
	Residential Program																		
1	Coupon Initiative	Verified	1,027,535	69	100.00%														100%
	Adjustment to 2015 savings	True-up	46,083	2	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2	Bi-Annual Retailer Event Initiative	Verified	2,194,924	163	100.00%														100%
	Adjustment to 2015 savings	True-up		0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3	Appliance Retirement Initiative	Verified	155,424	23	100.00%														100%
	Adjustment to 2015 savings	True-up		0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	HVAC Incentives Initaitive	Verified	3,175,791	1,685	100.00%														100%
	Adjustment to 2015 savings	True-up	43,375	22	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
5	Residential New Construction and Major	Verified	58,971	21	100.00%														100%
	Adjustment to 2015 savings	True-up	805,682	42	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Commercial & Institutional Program																		
6	Energy Audit Initiative	Verified	875,115	187			100.00%												100%
	Adjustment to 2015 savings	True-up	1,926,895	411	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	Efficiency: Equipment Replacement Incentive Initiative	Verified	51,722,543	6,257		14%	86%												100%
	Adjustment to 2015 savings	True-up	2,316,888	399	0.00%	14.00%	86.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8	Direct Install Lighting and Water Heating Initiative	Verified	2,024,454	487		100%													100%
	Adjustment to 2015 savings	True-up			0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
9	New Construction and Major Renovation Initiative	Verified	1,437,827	316			100.00%												100%
	Adjustment to 2015 savings	True-up	903,373	186	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
10	Existing Building Commissioning Incentive Initiative	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Industrial Program																		
11	Process and Systems Upgrades Initiatives - Project Incentive Initiative	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

12	Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiative	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13	Process and Systems Upgrades Initiatives - Energy Manager Initiative	Verified	1,293,617	274			100.00%												100%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Low Income Program																		
14	Low Income Initiative	Verified	147,287	12	100%														100%
	Adjustment to 2015 savings	True-up			100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Other																		
15	Aboriginal Conservation Program	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
16	Program Enabled Savings	Verified	235,240	27			100.00%												100%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Conservation Fund Pilots																		
17	Conservation Fund Pilot - EnerNOC	Verified	130,073	0			100.00%												100%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
18	Loblaws Pilot	Verified	901,493	131			100.00%												100%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
19	Conservation Fund Pilot - SEG	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20	Social Benchmarking Pilot	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Conservation First Framework																		
	Residential Province-Wide Programs																		
21	Save on Energy Coupon Program	Verified	6,484,457	424	100%														100%
	Adjustment to 2015 savings	True-up	810,288	59	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22	Save on Energy Heating and Cooling Program	Verified	3,220,099	1,696	100%														100%
	Adjustment to 2015 savings	True-up	506,403	258	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
23	Save on Energy New Construction Program	Verified	0		100.00%														100%
	Adjustment to 2015 savings	True-up	992	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
24	Save on Energy Home Assistance Program	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Non-Residential Province-Wide Programs																		
25	Save on Energy Audit Funding Program	Verified	0	0			100.00%												100%
	Adjustment to 2015 savings	True-up	311,335	66	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
26	Save on Energy Retrofit Program	Verified	4,388,100	592		14%	86%												100%
	Adjustment to 2015 savings	True-up	12,562,665	1,734	0.00%	14.00%	86.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27	Save on Energy Small Business Lighting Program	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28	Save on Energy High Performance New Construction Program	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29	Save on Energy Existing Building Commissioning Program	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
30	Save on Energy Process & Systems Upgrades Program	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
31	Save on Energy Monitoring & Targeting Program	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
32	Save on Energy Energy Manager Program	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Local & Regional Programs																		
33	Business Refrigeration Local Program	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
34	First Nation Conservation Local Program	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
35	Social Benchmarking Local Program	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Pilot Programs																		
36	Enersource Hydro Mississauga Inc. - Performance-Based Conservation Pilot Program - Conservation Fund	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
37	EnWin Utilities Ltd. - Building Optimization Pilot	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

38	EnWin Utilities Ltd. - Re-Invest Pilot	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
39	Horizon Utilities Corporation - ECM Furnace Motor Pilot	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
40	Horizon Utilities Corporation - Social Benchmarking Pilot	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
41	Hydro Ottawa Limited - Conservation Voltage Regulation (CVR) Leveraging AMI Data Pilot	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
42	Hydro Ottawa Limited - Residential Demand Response Wi-Fi Thermostat Pilot	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
43	Kitchener-Wilmot Hydro Inc. - Pilot - DCKV	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
44	Niagara-on-the-Lake Hydro Inc. - Direct Install Energy Efficiency Measures for the Agricultural Sector	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
45	Oakville Hydro Electricity Distribution Inc. - Direct Install - Hydronic	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
46	Oakville Hydro Electricity Distribution Inc. - Direct Install - RTU Controls	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
47	Toronto Hydro-Electric System Limited - Direct Install - Hydronic (Pilot Savings)	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
48	Toronto Hydro-Electric System Limited - Direct Install - RTU Controls (Pilot Savings)	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
49	Toronto Hydro-Electric System Limited - PFP - Large (Pilot Savings)	Verified																	0%
	Adjustment to 2015 savings	True-up			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Actual CDM Savings in 2015		**99,706,929**	**15,543**	**18,677,311**	**11,963,081**	**111,870**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
	Forecast CDM Savings in 2015				**44,207,932**	**16,984,563**	**195,431**	**3,732**	**208,627**	**20**	**2,868**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
	Variance to CDM Final Verified 2016 report		**0**	**0**															
	Distribution Rate in 2015				$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
	Lost Revenue in 2015 from 2011 programs				$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
	Lost Revenue in 2015 from 2012 programs				$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
	Lost Revenue in 2015 from 2013 programs				$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
	Lost Revenue in 2015 from 2014 programs				$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
	Lost Revenue in 2015 from 2015 programs				$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
	Total Lost Revenues in 2015				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
	Forecast Lost Revenues in 2015				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
	LRAMVA in 2015																		**$ -**
	2015 Savings Persisting in 2016				18,498,335	11,869,887	110,298	0	0	0	0	0	0	0	0	0	0	0	
	2015 Savings Persisting in 2017				18,493,785	11,241,823	109,650	0	0	0	0	0	0	0	0	0	0	0	
	2015 Savings Persisting in 2018				18,488,713	11,241,823	108,212	0	0	0	0	0	0	0	0	0	0	0	
	2015 Savings Persisting in 2019				18,426,148	11,241,823	108,212	0	0	0	0	0	0	0	0	0	0	0	
	2015 Savings Persisting in 2020				18,331,323	11,241,823	100,988	0	0	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of assumptions included above

Ontario Energy Board

LRAMVA Work Form: Carrying Charges by Rate Class

Legend

- User Inputs (Green)
- Auto Populated Cells (White)
- Instructions (Grey)

Instructions

1. Please update Table 6 as new approved prescribed interest rates for deferral and variance accounts become available. The quarterly interest rates are used to calculate the carrying charges for LRAMVA. Starting from column I, the principle will auto-populate as monthly variances in Table 6-a, and are multiplied by the interest rates from column H to determine the monthly variances on carrying charges for each rate class by year.
2. The annual carrying charges totals in Table 6-a below pertain to the amount that was originally collected in interest from forecasted CDM savings and what should have been collected based on actual CDM savings. As the amounts calculated in Table 6-a are cumulative, LDCs are requested to enter any collected interest amounts into the "Amounts Cleared" row in order to clear the balance and calculate outstanding variances on carrying charges.

Table 6. Prescribed Interest Rates

Quarter	Approved Deferral & Variance Accounts
2011 Q1	1.47%
2011 Q2	1.47%
2011 Q3	1.47%
2011 Q4	1.47%
2012 Q1	1.47%
2012 Q2	1.47%
2012 Q3	1.47%
2012 Q4	1.47%
2013 Q1	1.47%
2013 Q2	1.47%
2013 Q3	1.47%
2013 Q4	1.47%
2014 Q1	1.47%
2014 Q2	1.47%
2014 Q3	1.47%
2014 Q4	1.47%
2015 Q1	1.47%
2015 Q2	1.10%
2015 Q3	1.10%
2015 Q4	1.10%
2016 Q1	1.10%
2016 Q2	1.10%
2016 Q3	1.10%
2016 Q4	1.10%
2017 Q1	1.10%
2017 Q2	1.10%
2017 Q3	1.10%
2017 Q4	1.50%
2018 Q1	1.50%
2018 Q2	1.89%
2018 Q3	1.89%
2018 Q4	1.89%
2019 Q1	
2019 Q2	
2019 Q3	
2019 Q4	
2020 Q1	
2020 Q2	
2020 Q3	

Table 6-a. Calculation of Carrying Costs by Rate Class

Go to Tab 1: Summary

Month	Period	Quarter	Monthly Rate	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Total
Jan-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2011				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Opening Balance for 2012				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2012				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared											
Opening Balance for 2013				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

2020 Q4	

[Check OEB website]

Oct-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2013				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared											
Opening Balance for 2014				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-14	2011-2014	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-14	2011-2014	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-14	2011-2014	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-14	2011-2014	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$2.59	$2.59
May-14	2011-2014	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$5.35	$5.35
Jun-14	2011-2014	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$7.77	$7.77
Jul-14	2011-2014	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$11.61	$11.61
Aug-14	2011-2014	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$16.17	$16.17
Sep-14	2011-2014	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$20.91	$20.91
Oct-14	2011-2014	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$27.06	$27.06
Nov-14	2011-2014	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$31.45	$31.45
Dec-14	2011-2014	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$37.95	$37.95
Total for 2014				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$160.86**	**$160.86**
Amount Cleared											
Opening Balance for 2015				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$160.86**	**$160.86**
Jan-15	2011-2015	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$43.39	$43.39
Feb-15	2011-2015	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$44.18	$44.18
Mar-15	2011-2015	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$54.43	$54.43
Apr-15	2011-2015	Q2	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$43.41	$43.41
May-15	2011-2015	Q2	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$49.30	$49.30
Jun-15	2011-2015	Q2	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$52.34	$52.34
Jul-15	2011-2015	Q3	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$59.41	$59.41
Aug-15	2011-2015	Q3	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$64.73	$64.73
Sep-15	2011-2015	Q3	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$68.40	$68.40
Oct-15	2011-2015	Q4	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$76.63	$76.63
Nov-15	2011-2015	Q4	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$85.95	$85.95
Dec-15	2011-2015	Q4	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$100.99	$100.99
Total for 2015				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$904.01**	**$904.01**
Amount Cleared											
Opening Balance for 2016				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$904.01**	**$904.01**
Jan-16	2011-2016	Q1	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$112.87	$112.87
Feb-16	2011-2016	Q1	0.09%	$49.05	$48.07	$77.71	-$0.41	-$0.26	-$0.01	$117.66	$291.80
Mar-16	2011-2016	Q1	0.09%	$98.09	$96.14	$155.41	-$0.82	-$0.52	-$0.03	$138.69	$486.97
Apr-16	2011-2016	Q2	0.09%	$147.14	$144.21	$233.12	-$1.23	-$0.77	-$0.04	$146.71	$669.13
May-16	2011-2016	Q2	0.09%	$196.18	$192.28	$310.82	-$1.64	-$1.03	-$0.05	$164.58	$861.14
Jun-16	2011-2016	Q2	0.09%	$245.23	$240.35	$388.53	-$2.05	-$1.29	-$0.06	$172.58	$1,043.27
Jul-16	2011-2016	Q3	0.09%	$294.28	$288.41	$466.23	-$2.47	-$1.55	-$0.08	$192.83	$1,237.66
Aug-16	2011-2016	Q3	0.09%	$343.32	$336.48	$543.94	-$2.88	-$1.81	-$0.09	$207.33	$1,426.30
Sep-16	2011-2016	Q3	0.09%	$392.37	$384.55	$621.64	-$3.29	-$2.07	-$0.10	$214.68	$1,607.79
Oct-16	2011-2016	Q4	0.09%	$441.41	$432.62	$699.35	-$3.70	-$2.32	-$0.11	$236.89	$1,804.14
Nov-16	2011-2016	Q4	0.09%	$490.46	$480.69	$777.05	-$4.11	-$2.58	-$0.13	$244.97	$1,986.35
Dec-16	2011-2016	Q4	0.09%	$539.50	$528.76	$854.76	-$4.52	-$2.84	-$0.14	$269.69	$2,185.22
Total for 2016				**$3,237.03**	**$3,172.56**	**$5,128.54**	**-$27.12**	**-$17.04**	**-$0.83**	**$3,123.49**	**$14,616.64**
Amount Cleared											
Opening Balance for 2017				**$3,237.03**	**$3,172.56**	**$5,128.54**	**-$27.12**	**-$17.04**	**-$0.83**	**$3,123.49**	**$14,616.64**
Jan-17	2011-2017	Q1	0.09%	$588.55	$576.83	$932.46	-$4.93	-$3.10	-$0.15	$287.04	$2,376.70
Feb-17	2011-2017	Q1	0.09%	$588.55	$576.83	$932.46	-$4.93	-$3.10	-$0.15	$259.26	$2,348.92
Mar-17	2011-2017	Q1	0.09%	$588.55	$576.83	$932.46	-$4.93	-$3.10	-$0.15	$287.04	$2,376.70
Apr-17	2011-2017	Q2	0.09%	$588.55	$576.83	$932.46	-$4.93	-$3.10	-$0.15	$277.78	$2,367.44
May-17	2011-2017	Q2	0.09%	$588.55	$576.83	$932.46	-$4.93	-$3.10	-$0.15	$287.04	$2,376.70
Jun-17	2011-2017	Q2	0.09%	$588.55	$576.83	$932.46	-$4.93	-$3.10	-$0.15	$277.78	$2,367.44
Jul-17	2011-2017	Q3	0.09%	$588.55	$576.83	$932.46	-$4.93	-$3.10	-$0.15	$287.04	$2,376.70
Aug-17	2011-2017	Q3	0.09%	$588.55	$576.83	$932.46	-$4.93	-$3.10	-$0.15	$287.04	$2,376.70
Sep-17	2011-2017	Q3	0.09%	$588.55	$576.83	$932.46	-$4.93	-$3.10	-$0.15	$277.78	$2,367.44
Oct-17	2011-2017	Q4	0.13%	$802.57	$786.59	$1,271.54	-$6.72	-$4.22	-$0.20	$391.42	$3,240.96
Nov-17	2011-2017	Q4	0.13%	$802.57	$786.59	$1,271.54	-$6.72	-$4.22	-$0.20	$378.79	$3,228.33
Dec-17	2011-2017	Q4	0.13%	$802.57	$786.59	$1,271.54	-$6.72	-$4.22	-$0.20	$391.42	$3,240.96
Total for 2017				**$10,941.69**	**$10,723.79**	**$17,335.31**	**-$91.66**	**-$57.60**	**-$2.79**	**$6,812.90**	**$45,661.64**
Amount Cleared											
Opening Balance for 2018				**$10,941.69**	**$10,723.79**	**$17,335.31**	**-$91.66**	**-$57.60**	**-$2.79**	**$6,812.90**	**$45,661.64**
Jan-18	2011-2018	Q1	0.13%	$802.57	$786.59	$1,271.54	-$6.72	-$4.22	-$0.20	$208.42	$3,057.96
Feb-18	2011-2018	Q1	0.13%	$802.57	$786.59	$1,271.54	-$6.72	-$4.22	-$0.20	$208.42	$3,057.96
Mar-18	2011-2018	Q1	0.13%	$802.57	$786.59	$1,271.54	-$6.72	-$4.22	-$0.20	$208.42	$3,057.96
Apr-18	2011-2018	Q2	0.16%	$1,011.24	$991.10	$1,602.14	-$8.47	-$5.32	-$0.26	$262.60	$3,853.02
May-18	2011-2018	Q2	0.16%	$1,011.24	$991.10	$1,602.14	-$8.47	-$5.32	-$0.26	$262.60	$3,853.02

Jun-18	2011-2018	Q2	0.16%	$1,011.24	$991.10	$1,602.14	-$8.47	-$5.32	-$0.26	$262.60	$3,853.02
Jul-18	2011-2018	Q3	0.16%	$1,011.24	$991.10	$1,602.14	-$8.47	-$5.32	-$0.26	$262.60	$3,853.02
Aug-18	2011-2018	Q3	0.16%	$1,011.24	$991.10	$1,602.14	-$8.47	-$5.32	-$0.26	$262.60	$3,853.02
Sep-18	2011-2018	Q3	0.16%	$1,011.24	$991.10	$1,602.14	-$8.47	-$5.32	-$0.26	$262.60	$3,853.02
Oct-18	2011-2018	Q4	0.16%	$1,011.24	$991.10	$1,602.14	-$8.47	-$5.32	-$0.26	$262.60	$3,853.02
Nov-18	2011-2018	Q4	0.16%	$1,011.24	$991.10	$1,602.14	-$8.47	-$5.32	-$0.26	$262.60	$3,853.02
Dec-18	2011-2018	Q4	0.16%	$1,011.24	$991.10	$1,602.14	-$8.47	-$5.32	-$0.26	$262.60	$3,853.02
Total for 2018				**$22,450.53**	**$22,003.43**	**$35,569.18**	**-$188.08**	**-$118.18**	**-$5.73**	**$9,801.57**	**$89,512.73**
Amount Cleared											
Opening Balance for 2019				**$22,450.53**	**$22,003.43**	**$35,569.18**	**-$188.08**	**-$118.18**	**-$5.73**	**$9,801.57**	**$89,512.73**
Jan-19	2011-2019	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-19	2011-2019	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-19	2011-2019	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-19	2011-2019	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-19	2011-2019	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-19	2011-2019	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-19	2011-2019	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-19	2011-2019	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-19	2011-2019	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-19	2011-2019	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-19	2011-2019	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-19	2011-2019	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2019				**$22,450.53**	**$22,003.43**	**$35,569.18**	**-$188.08**	**-$118.18**	**-$5.73**	**$9,801.57**	**$89,512.73**
Amount Cleared											
Opening Balance for 2020				**$22,450.53**	**$22,003.43**	**$35,569.18**	**-$188.08**	**-$118.18**	**-$5.73**	**$9,801.57**	**$89,512.73**
Jan-20	2011-2020	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-20	2011-2020	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-20	2011-2020	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-20	2011-2020	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-20	2011-2020	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

Ontario Energy Board

Supporting Documentation:
LDC Persistence Savings Results from IESO

Version 2.0 (2017)

Legend | Instructions (Grey)

Supporting Documentation

The following tabs 7-a to 7-j must be populated with the verified savings results from the IESO's (or former OPA's) persistence reports.
The persistence data tabs have been structured in a way to match the formatting of the persistence report provided by the IESO.

Ontario Energy Board

Legend

User Inputs (Green)
Instructions (Grey)

Table 7-a. 2011 Persisting Savings

Go to Tab 4.

1. LDCs are requested to paste a copy of the 2011 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.

2. Please ensure that verified adjustments to 2011 programs that become available in future evaluation audits are included in the 2011 form below.

#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	(Implementation) Year
1	Tier 1	Consumer	Appliance Exchange	PowerStream	Residential	EE	2011
2	Tier 1	Consumer	Appliance Retirement	PowerStream	Residential	EE	2011
3	Tier 1	Consumer	Bi-Annual Retailer Event	PowerStream	Residential	EE	2011
4	Tier 1				Residential	EE	2011
5	Tier 1	Consumer	HVAC Incentives	PowerStream	Residential	EE	2011
6	Tier 1	Consumer	Residential Demand Response	PowerStream	Residential	DR	2011
7	Tier 1	Consumer	Retailer Co-op	PowerStream	Residential	EE	2011
8	Tier 1	Business	Commercial Demand Response (part of the Residential program schedule)	PowerStream	Commercial &	DR	2011
9	Tier 1	Business	Demand Response 3 (part of the Industrial program schedule)	PowerStream	Commercial &	DR	2011
10	Tier 1	Business	Direct Install Lighting	PowerStream	Commercial &	EE	2011
11	Tier 1	Business	Retrofit	PowerStream	Commercial &	EE	2011
12	Tier 1	Business	Energy Audit	PowerStream	Commercial &	EE	2011
13	Tier 1	Business	High Performance New Construction	PowerStream	Commercial &	EE	2011
14	Tier 1	Industrial	Demand Response 3	PowerStream	Industrial	DR	2011
15	Tier 1	Industrial	Retrofit	PowerStream	Industrial	EE	2011
16	Tier 1	Pre-2011 Progran	Data Centre Incentive Program	PowerStream	Commercial &	EE	2011
17	Tier 1	Pre-2011 Progran	Electricity Retrofit Incentive Program	PowerStream	Commercial &	EE	2011
18	Tier 1	Pre-2011 Progran	High Performance New Construction	PowerStream	Commercial &	EE	2011
19	Tier 1	Pre-2011 Progran	Multifamily Energy Efficiency Rebates	PowerStream	Commercial &	EE	2011
20							
21							
22							
23							
24							
25							
etc.							

Supporting Documentation:
2011 LDC Persistence Savings Results from IESO

Tx (Transmission) or Dx (Distribution) Connected	Status	Notes	Activity Unit Name	Activity / Participation (i.e. # of appliances)	Gross Summer Peak Demand Savings (kW)	Gross Energy Savings (kWh)	Net Verified Annual Peak Demand Savings at the End-User Level (kW)						
							2011	2012	2013	2014	2015	2016	2017
	Final; Release		Appliances	152	30	36,794	15.41	15.41	15.41	5.83	-	-	-
	Final; Release		Appliances	2,986	339	2,465,802	158.62	158.62	158.62	156.58	110.68	-	-
	Final; Release		Products	57,776	100	1,785,664	111.62	111.62	111.62	111.62	103.85	95.35	77.13
	Final; Release		Products	34,625	70	1,174,884	79.66	79.66	79.66	79.66	74.88	69.66	58.87
	Final; Release		Installations	10,174	4,700	8,684,756	2,828.95	2,828.95	2,828.95	2,828.95	2,828.95	2,828.95	2,828.95
	Final; Release	New participa	Devices	2,234	1,251	3,239	1,251.04	-	-	-	-	-	-
	Final; Release	Custom retail	Products	134	0	3,450	0.11	0.11	0.11	0.11	0.11	0.11	0.06
	Final; Release	New participa	Devices	-	-	-	-	-	-	-	-	-	-
	Final; Release	Gross reflects	Facilities	12	1,639	48,536	1,243.13	-	-	-	-	-	-
	Final; Release		Projects	1,943	1,967	5,703,882	2,105.84	2,103.07	2,017.35	1,531.40	1,531.16	1,521.79	280.48
	Final; Release		Projects	148	1,673	9,981,644	1,224.60	1,224.60	1,223.95	1,223.45	1,026.35	1,001.26	867.78
	Final; Release	Not evaluated	Audits	6	-	-	-	-	-	-	-	-	-
	Final; Release	Not evaluated	Projects	2	33	139,736	16.44	16.44	16.44	16.44	16.44	16.44	16.44
	Final; Release	Gross reflects	Facilities	11	3,125	154,591	2,633.63	-	-	-	-	-	-
	Final; Release		Projects	34	684	4,169,768	501.59	501.59	501.59	501.04	501.04	501.04	458.67
	Final; Release	Not evaluated	Projects	5	81	533,038	81.40	81.40	81.40	81.40	81.40	81.40	81.40
	Final; Release	Not evaluated	Projects	195	3,752	18,243,264	1,958.17	1,958.17	1,958.17	1,958.17	1,958.17	1,958.17	1,958.17
	Final; Release	Not evaluated	Projects	8	422	2,165,793	210.84	210.84	210.84	210.84	210.84	210.84	210.84
	Final; Release	Not evaluated	Projects	1	110	286,080	75.07	75.07	75.07	75.07	75.07	75.07	75.07

2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
76.63	92.90	44.07	6.27	6.26	6.26	5.81	5.81	4.91	-	-	-	-	-	-
58.25	68.26	38.23	4.78	4.78	4.78	4.68	4.68	4.43	-	-	-	-	-	-
2,828.95	2,828.95	2,828.95	2,828.95	2,828.95	2,828.95	2,828.95	2,828.95	2,828.95	2,828.95	2,828.95	2,293.85	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.06	0.06	0.01	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
264.13	264.13	264.13	240.83	240.83	33.87	33.87	33.87	-	-	-	-	-	-	-
780.53	655.77	655.77	652.82	636.19	89.40	86.87	86.87	65.76	42.30	31.06	31.06	31.06	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16.44	16.44	16.44	16.44	16.44	16.44	16.44	16.44	16.44	16.44	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
397.98	314.42	314.42	313.78	311.99	28.55	28.55	28.55	16.64	5.39	-	-	-	-	-
81.40	81.40	81.40	81.40	81.40	81.40	81.40	81.40	81.40	81.40	81.40	81.40	81.40	-	-
1,958.17	1,958.17	1,958.17	1,958.17	1,958.17	1,958.17	-	-	-	-	-	-	-	-	-
210.84	210.84	210.84	210.84	210.84	210.84	210.84	210.84	107.96	107.96	107.96	107.96	107.96	107.96	107.96
75.07	75.07	75.07	75.07	75.07	75.07	-	-	-	-	-	-	-	-	-

									Net Verified Annual Energy Savings at the End-User Level (kWh)				
2033	2034	2035	2036	2037	2038	2039	2040		2011	2012	2013	2014	2015
-	-	-	-	-	-	-	-		18,962.23	18,962.23	18,962.23	10,401.35	-
-	-	-	-	-	-	-	-		1,160,946.42	1,160,946.42	1,160,946.42	1,159,117.20	841,804.55
-	-	-	-	-	-	-	-		1,950,839.43	1,950,839.43	1,950,839.43	1,950,839.43	1,782,923.57
-	-	-	-	-	-	-	-		1,295,153.27	1,295,153.27	1,295,153.27	1,295,153.27	1,191,910.24
-	-	-	-	-	-	-	-		5,192,089.11	5,192,089.11	5,192,089.11	5,192,089.11	5,192,089.11
-	-	-	-	-	-	-	-		3,239.30	-	-	-	-
-	-	-	-	-	-	-	-		2,334.81	2,334.81	2,334.81	2,334.81	2,334.81
-	-	-	-	-	-	-	-		-	-	-	-	-
-	-	-	-	-	-	-	-		48,535.59	-	-	-	-
-	-	-	-	-	-	-	-		5,296,277.52	5,288,648.25	5,055,893.56	3,655,866.73	3,655,241.23
-	-	-	-	-	-	-	-		7,512,896.73	7,512,896.73	7,509,317.98	7,507,386.49	6,426,037.98
-	-	-	-	-	-	-	-		-	-	-	-	-
-	-	-	-	-	-	-	-		69,868.01	69,868.01	69,868.01	69,868.01	69,868.01
-	-	-	-	-	-	-	-		154,590.90	-	-	-	-
-	-	-	-	-	-	-	-		3,213,756.83	3,213,756.83	3,213,756.83	3,211,656.34	3,211,656.34
-	-	-	-	-	-	-	-		533,038.00	533,038.00	533,038.00	533,038.00	533,038.00
-	-	-	-	-	-	-	-		9,540,023.70	9,540,023.70	9,540,023.70	9,540,023.70	9,540,023.70
107.96	107.96	107.96	107.96	-	-	-	-		1,082,896.46	1,082,896.46	1,082,896.46	1,082,896.46	1,082,896.46
-	-	-	-	-	-	-	-		194,534.40	194,534.40	194,534.40	194,534.40	194,534.40

2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
1,599,482.57	1,205,907.89	1,201,508.79	1,552,865.65	498,301.05	179,422.09	157,940.25	157,940.25	116,645.51	116,645.51
1,079,121.58	846,248.40	840,828.93	1,056,860.62	408,461.80	133,343.08	108,210.12	108,210.12	98,584.55	98,584.55
5,192,089.11	5,192,089.11	5,192,089.11	5,192,089.11	5,192,089.11	5,192,089.11	5,192,089.11	5,192,089.11	5,192,089.11	5,192,089.11
-	-	-	-	-	-	-	-	-	-
2,334.81	1,294.47	1,294.47	1,294.47	315.52	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
3,634,354.24	681,068.75	668,794.80	668,794.80	668,794.80	515,583.62	515,583.62	25,426.59	25,426.59	25,426.59
6,329,764.14	5,777,805.56	5,326,802.48	4,763,679.94	4,763,679.94	4,725,522.30	4,236,987.75	442,962.77	433,242.22	433,242.22
-	-	-	-	-	-	-	-	-	-
69,868.01	69,868.01	69,868.01	69,868.01	69,868.01	69,868.01	69,868.01	69,868.01	69,868.01	69,868.01
-	-	-	-	-	-	-	-	-	-
3,211,656.34	2,994,466.37	2,571,857.64	2,048,952.99	2,048,952.99	2,040,709.06	2,029,566.12	40,015.29	40,015.29	40,015.29
533,038.00	533,038.00	533,038.00	533,038.00	533,038.00	533,038.00	533,038.00	533,038.00	533,038.00	533,038.00
9,540,023.70	9,540,023.70	9,540,023.70	9,540,023.70	9,540,023.70	9,540,023.70	9,540,023.70	9,540,023.70	-	-
1,082,896.46	1,082,896.46	1,082,896.46	1,082,896.46	1,082,896.46	1,082,896.46	1,082,896.46	1,082,896.46	1,082,896.46	1,082,896.46
194,534.40	194,534.40	194,534.40	194,534.40	194,534.40	194,534.40	194,534.40	194,534.40	-	-

2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
105,984.96	-	-	-	-	-	-	-	-	-	-	-
95,720.53	-	-	-	-	-	-	-	-	-	-	-
5,192,089.11	5,192,089.11	5,192,089.11	4,713,593.85	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
369,764.49	161,827.44	62,274.72	62,274.72	62,274.72	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
69,868.01	69,868.01	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
15,370.33	4,976.29	-	-	-	-	-	-	-	-	-	-
533,038.00	533,038.00	533,038.00	533,038.00	533,038.00	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
554,466.26	554,466.26	554,466.26	554,466.26	554,466.26	554,466.26	554,466.26	554,466.26	554,466.26	554,466.26	554,466.26	-
-	-	-	-	-	-	-	-	-	-	-	-

2038	2039	2040
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Ontario Energy Board

Supporting
2012 LDC Persistence

Legend	
	User Inputs (Green)
	Instructions (Grey)

Table 7-b. 2012 Persisting Savings

Go to Tab 4.

1. LDCs are requested to paste a copy of the 2012 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.

2. Please ensure that verified adjustments to 2012 programs that become available in future evaluation audits are included in the 2012 form below.

	#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	(Implementation) Year	Tx (Transmission) or Dx (Distribution) Connected	Status	Notes	Activity Unit Name	Activity / Participation (i.e. # of appliances)	Gross Summer Peak Demand Savings (kW)	Gross Energy Savings (kWh)
	1	Tier 1	Consumer	Appliance Exchange	PowerStream	Residential	EE	2012		Final; Released August 31,		Appliances	110	31	55,075
	2	Tier 1	Consumer	Appliance Retirement	PowerStream	Residential	EE	2012		Final; Released August 31,		Appliances	1,664	202	1,412,653
	3	Tier 1	Consumer	Bi-Annual Retailer Event	PowerStream	Residential	EE	2012		Final; Released August 31,		Products	70,426	108	1,939,860
	4	Tier 1	Consumer	Conservation Instant Coupon Booklet	PowerStream	Residential	EE	2012		Final; Released August 31,		Products	2,051	15	88,018
	5	Tier 1				Residential	EE	2012		Final; Released August 31,		Installations	7,614	3,278	5,614,936
	6	Tier 1	Consumer	Residential Demand Response	PowerStream	Residential	DR	2012		Final; Released August 31,		Devices	7,780	3,873	28,587
	7	Tier 1	Business	Direct Install Lighting	PowerStream	C&I	EE	2012		Final; Releas		Projects	1,628	1,523	5,758,088
	8	Tier 1	Business	Retrofit	PowerStream	C&I	EE	2012		Final; Released August 31,		Projects	388	6,207	33,903,387
	9	Tier 1	Business	Energy Audit	PowerStream	C&I	EE	2012		Final; Released August 31,		Audits	10	52	251,763
	10	Tier 1	Business	Demand Response 3 (part of the Industrial program schedule)	PowerStream	C&I	DR	2012		Final; Released August 31,		Facilities	11	1,232	17,913
	11	Tier 1	Home Assistance	Home Assistance Program	PowerStream	Residential	EE	2012		Final; Released August 31,		Projects	258	36	313
	12	Tier 1	Industrial	Demand Response 3	PowerStream	Industrial	DR	2012		Final; Released August 31,		Facilities	12	3,186	76,793
	13	Tier 1	Industrial	Energy Manager	PowerStream	Industrial		2012		Final; Released August 31, 2013			2	21	40,000
	14	Tier 1	Pre-2011 Progra	High Performance New Construction	PowerStream	C&I	EE	2012		Final; Releas	Projects	Projects	9	644	2,745,770
	15	Tier 1	Other	Program Enabled Savings	PowerStream	Inc.		2012		Final; Released August 31, 2013			11	-	-
for 2011	**16**	**Tier 1 True Up**	**Business**	**Retrofit**	**PowerStrear**	**C&I**	**EE**	**2011**		**Final; Released August 3**		**Projects**	**26**	**287**	**1,915,166**
for 2011	**17**	**Tier 1 True Up**	**Business**	**Direct Install Lighting**	**PowerStrear**	**C&I**	**EE**	**2011**		**Final; Released August 3**		**Projects**	**2**	**3**	**5,333**
for 2011	**18**	**Tier 1 True Up**	**Business**	**Energy Audit**	**PowerStrear**	**C&I**	**EE**	**2011**		**Final; Released August 3**		**Projects**	**1**	**5**	**25,176**
for 2011	**19**	**Tier 1 True Up**	**Business**	**High Performance New Construction**	**PowerStrear**	**C&I**	**EE**	**2011**		**Final; Released August 3**		**Buildings**	**1**	**(2)**	**46**
for 2011	**20**	**Tier 1 True Up**	**Pre-2011 Progra**	**High Performance New Construction**	**PowerStrear**	**C&I**	**EE**	**2011**		**Final; Released August 3**		**Buildings**	**5**	**663**	**1,466,819**
for 2011	**21**	**Tier 1 True Up**	**Consumer**	**Residential New Construction**	**PowerStrear**	**Residential**	**EE**	**2011**		**Final; Released August 3**		**Buildings**	**9**	**0**	**4,872**
for 2011	**22**	**Tier 1 True Up**	**Consumer**	**HVAC Incentives**	**PowerStrear**	**Residential**	**EE**	**2011**		**Final; Released August 3**		**Installations**	**(1,634)**	**(445)**	**(445)**
Grouped wit	**23**	**Tier 1 True Up**	**Consumer**	**Bi-Annual Retailer Event**	**PowerStrear**	**Residential**	**EE**	**2011**		**Final; Released August 3**		**Products**	**5,431**	**8**	**157,569**
	24														
	25														
	etc.														

Documentation:
Savings Results from IESO

Net Verified Annual Peak Demand Savings at the End-User Level (kW)

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
-	16.1	16.1	16.1	15.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	93.6	93.6	93.6	91.3	54.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	98.2	98.2	98.2	98.2	89.9	76.1	57.0	56.8	56.8	36.6	14.3	14.3	14.3	14.1	14.1	13.7	3.9	3.9	3.9	3.9	-	-	-	-	-	-
-	15.3	15.3	15.3	15.3	15.2	15.2	13.0	13.0	13.0	13.0	0.2	0.2	0.2	0.2	0.2	0.2	-	-	-	-	-	-	-	-	-	-
-	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,253.6	-	-	-	-	-	-	-
-	3,872.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	1,437.1	1,435.0	1,234.1	946.7	946.4	244.0	244.0	234.6	234.6	234.6	218.8	218.8	14.7	14.7	14.7	-	-	-	-	-	-	-	-	-	-	-
-	4,689.8	4,669.6	4,662.0	4,590.8	4,590.8	4,349.0	4,254.2	4,254.2	4,008.7	2,730.4	2,629.9	2,629.9	980.6	937.7	937.7	222.5	155.3	155.3	155.3	155.3	-	-	-	-	-	-
-	51.8	51.8	51.8	51.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	1,232.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	35.9	34.5	34.5	34.5	34.4	34.4	33.5	33.5	26.1	23.7	22.2	22.2	18.1	18.1	10.7	10.1	10.1	10.1	10.1	10.1	1.3	-	-	-	-	-
-	3,186.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	644.4	644.4	644.4	644.4	644.4	644.4	644.4	644.4	644.4	644.4	644.4	644.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210.6	**210.6**	**210.6**	**209.4**	**205.1**	**205.1**	**169.5**	**104.3**	**89.7**	**89.7**	**87.9**	**87.9**	**11.9**	**0.8**	**0.7**	-	-	-	-	-	-	-	s	-	-	-	-
2.5	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.2	**5.2**	**5.2**	**5.2**	**5.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(0.9)	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	-	-	-	-	-	-	-	-	-	-	-	-
331.3	**331.3**	**331.3**	**331.3**	**331.3**	**331.3**	**331.3**	**331.3**	**331.3**	**331.3**	**331.3**	**331.3**	**331.3**	**331.3**	**331.3**	-	-	-	-	-	-	-	-	-	-	-	-
0.2	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-
(445.3)	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(358.3)**	-	-	-	-	-	-	-	-
7.2	**7.2**	**7.2**	**7.2**	**7.2**	**6.5**	**3.7**	**3.7**	**3.7**	**1.2**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-	-	-

2038	2039	2040		Net Verified Annual Energy Savings at the End-User Level (kWh)														
				2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
-	-	-		-	28,384.0	28,384.0	28,384.0	28,029.6	-	-	-	-	-	-	-	-	-	-
-	-	-		-	662,322.5	662,322.5	662,322.5	660,272.8	411,737.3	-	-	-	-	-	-	-	-	-
-	-	-		-	1,777,858.0	1,777,858.0	1,777,858.0	1,777,858.0	1,598,181.3	1,299,549.6	886,426.1	884,583.5	884,583.5	449,301.1	333,440.0	323,077.3	323,077.3	300,521.7
-	-	-		-	92,817.4	92,817.4	92,817.4	92,817.4	91,422.9	91,422.9	43,050.7	42,813.1	42,813.1	42,813.1	6,953.5	5,600.0	5,600.0	4,812.4
-	-	-		-	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8
-	-	-		-	28,586.8	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-		-	5,424,342.7	5,415,635.0	4,573,454.4	3,341,962.3	3,340,837.5	891,386.3	891,386.3	882,009.2	882,009.2	882,009.2	726,932.6	726,932.6	14,695.8	14,695.8
-	-	-		-	25,834,396.8	25,767,976.2	25,742,596.8	25,509,177.4	25,509,177.4	24,717,523.6	24,157,030.4	24,157,030.4	23,087,410.6	15,754,901.7	14,199,021.1	14,131,085.3	4,337,256.2	4,196,413.5
-	-	-		-	251,762.5	251,762.5	251,762.5	251,762.5	-	-	-	-	-	-	-	-	-	-
-	-	-		-	17,912.5	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-		-	313.1	287.5	287.5	287.5	284.1	284.1	267.8	266.2	123.5	121.3	108.2	108.2	94.8	94.8
-	-	-		-	76,793.0	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-		-	36,000.0	36,000.0	36,000.0	36,000.0	36,000.0	36,000.0	36,000.0	36,000.0	36,000.0	36,000.0	36,000.0	-	-	-
-	-	-		-	2,745,769.9	2,745,769.9	2,745,769.9	2,745,769.9	2,745,769.9	2,745,769.9	2,745,769.9	2,745,769.9	2,745,769.9	2,745,769.9	2,745,769.9	2,745,769.9	-	-
-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	**-**	**-**		**1,423,968.7**	**1,423,968.7**	**1,423,968.7**	**1,419,671.9**	**1,403,001.4**	**1,402,953.0**	**1,252,094.4**	**910,524.5**	**854,405.4**	**854,405.4**	**831,143.2**	**800,103.1**	**291,728.5**	**249,103.9**	**248,859.2**
-	**-**	**-**		**4,951.6**	**4,951.6**	**4,951.6**	**4,951.6**	**4,951.6**	**4,951.6**	**691.4**	**691.4**	**691.4**	**691.4**	**486.8**	**486.8**	**-**	**-**	**-**
-	**-**	**-**		**25,176.3**	**25,176.3**	**25,176.3**	**25,176.3**	**25,176.3**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
-	**-**	**-**		**22.8**	**22.8**	**22.8**	**22.8**	**22.8**	**22.8**	**22.8**	**22.8**	**22.8**	**22.8**	**22.8**	**22.8**	**22.8**	**22.8**	**22.8**
-	**-**	**-**		**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**
-	**-**	**-**		**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**
-	**-**	**-**		**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**
-	**-**	**-**		**144,940.9**	**144,940.9**	**144,940.9**	**144,940.9**	**144,940.9**	**131,709.7**	**71,108.6**	**71,094.1**	**71,094.1**	**15,683.9**	**13,176.2**	**12,099.8**	**12,099.8**	**10,041.0**	**10,041.0**

2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
300,521.7	296,410.7	83,167.1	83,167.1	83,167.1	83,167.1	-	-	-	-	-	-	-	-	-
4,812.4	4,634.4	-	-	-	-	-	-	-	-	-	-	-	-	-
2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,420,037.4	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14,695.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,196,413.5	646,031.5	460,511.6	460,511.6	460,511.6	460,511.6	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36.7	31.8	31.8	31.8	31.8	31.8	9.5	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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245,946.7	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
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(814,450.3)	**(814,450.3)**	**(814,450.3)**	**(736,838.6)**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
10,028.9	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Ontario Energy Board

Supp
2013 LDC Persi

Legend

	User Inputs (Green)
	Instructions (Grey)

Table 7-c. 2013 Persisting Savings

Go to Tab 4.

1. LDCs are requested to paste a copy of the 2013 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.

2. Please ensure that verified adjustments to 2013 programs that become available in future evaluation audits are included in the 2013 form below.

	#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	(Implementation) Year	Tx (Transmission) or Dx (Distribution) Connected	Status	Notes	Activity Unit Name	Activity / Participation (i.e. # of appliances)	Gross Summer Peak Demand Savings (kW)	Gross Energy Savings (kWh)
for 2012	**1**	**LDC**	**Business**	**Energy Audit Funding**	**PowerStrean**	**Commercial**	**EE**	**2012**	**Dx**		**N/A**	**Audit**	**1.0**	**5.2**	**25,176.3**
	2	LDC	Business	Energy Audit Funding	PowerStream	Commercial &	EE	2013	Dx		N/A	Audit	9.0	120.8	659,796.2
	3	LDC	Business	DR-3	PowerStream	Commercial &	DR	2013	Dx		N/A	Facilities	17.0		
	4	LDC	Business	New Construction	PowerStream	Commercial &	EE	2013	Dx		N/A		4.0	1,441.2	2,925,209.4
for 2012	**5**	**LDC**				**Commercial**	**EE**	**2012**	**Dx**		**N/A**	**Projects**	**47.0**	**755.2**	**4,063,658.7**
	6	LDC	Business	Retrofit	PowerStream	Commercial &	EE	2013	Dx		N/A	Projects	727.0	7,036.7	38,768,552.6
for 2012	**7**	**LDC**	**Business**	**Small Business Lighting**	**PowerStrean**	**Commercial**	**EE**	**2012**	**Dx**		**N/A**	**Projects**	**3.0**	**3.4**	**14,832.5**
	8	LDC	Business	Small Business Lighting	PowerStream	Commercial &	EE	2013	Dx		N/A	Projects	2,315.0	2,463.2	8,416,741.6
	9	LDC	Consumer	Annual Coupons	PowerStream	Residential	EE	2013	Dx		Custom loads	measures	23,028.1	30.8	454,211.3
	10	LDC	Consumer	Appliance Exchange	PowerStream	Residential	EE	2013	Dx		Dehumidifier	Appliances	187.0	73.6	131,257.6
	11	LDC	Consumer	Appliance Retirement	PowerStream	Residential	EE	2013	Dx		N/A	Appliances	830.0	113.5	752,637.7
	12	LDC	Consumer	Bi-Annual Retailer Events	PowerStream	Residential	EE	2013	Dx		Custom loads	measures	62,717.2	75.8	1,091,430.9
	13	LDC	Consumer	Home Assistance Program	PowerStream	Residential	EE	2013	Dx		N/A	Projects Com	906.0	45.5	595,251.2
	14	LDC	Consumer	HVAC	PowerStream	Residential	EE	2013	Dx		Blended Load	Equipment	7,946.0	3,411.6	5,927,244.8
for 2011	**15**	**LDC**	**Consumer**	**HVAC**	**PowerStrean**	**Residential**	**EE**	**2011**	**Dx**		**Blended Loa**	**Equipment**	**5.0**	**2.3**	**4,253.8**
for 2012	**16**	**LDC**	**Consumer**	**HVAC**	**PowerStrean**	**Residential**	**EE**	**2012**	**Dx**		**Blended Loa**	**Equipment**	**160.0**	**74.1**	**132,515.3**
	17	LDC	Consumer	peaksaverPLUS	PowerStream	Residential	DR	2006	Dx		N/A	Devices	48.0		
	18	LDC	Consumer	peaksaverPLUS	PowerStream	Residential	DR	2007	Dx		N/A	Devices	487.0		
	19	LDC	Consumer	peaksaverPLUS	PowerStream	Residential	DR	2008	Dx		N/A	Devices	623.0		
	20	LDC	Consumer	peaksaverPLUS	PowerStream	Residential	DR	2009	Dx		N/A	Devices	3,537.0		
	21	LDC	Consumer	peaksaverPLUS	PowerStream	Residential	DR	2010	Dx		N/A	Devices	1,418.0		
	22	LDC	Consumer	peaksaverPLUS	PowerStream	Residential	DR	2011	Dx		N/A	Devices	2,182.0		
	23	LDC	Consumer	peaksaverPLUS	PowerStream	Residential	DR	2012	Dx		N/A	Devices	1,855.0		
	24	LDC	Consumer	peaksaverPLUS	PowerStream	Residential	DR	2013	Dx		N/A	Devices	11,002.0		
	25	LDC	Consumer	peaksaverPLUS (IHD)	PowerStream	Residential	DR	2012	Dx		N/A	Devices	6,205.0		
	26	LDC	Consumer	peaksaverPLUS (IHD)	PowerStream	Residential	DR	2013	Dx		N/A	Devices	13,473.0		
	27	LDC	Industrial	DR-3	PowerStream	Industrial	DR	2013	Dx		N/A	Facilities	10.0		
	28	LDC	Industrial	DR-3	PowerStream	Industrial	DR	2013	Dx		N/A	Facilities	5.0		
	29	LDC	Industrial	Energy Manager	PowerStream	Industrial	EE	2013	Dx		N/A		40.0	467.5	4,130,757.4
for 2011	**30**	**LDC**	**Other**	**Program Enabled Savings**	**PowerStrean**	**Other**	**EE**	**2011**	**Dx**		**N/A**		**1.0**	**3.2**	**5,574.0**
for 2012	**31**	**LDC**	**Other**	**Program Enabled Savings**	**PowerStrean**	**Other**	**EE**	**2012**	**Dx**		**N/A**		**16.0**	**184.7**	**1,234,217.0**
	32	LDC	Other	Program Enabled Savings	PowerStream	Other	EE	2013	Dx		N/A		4.0	5.2	7,515.0
	33	LDC	Pre-2011	HPNC	PowerStream	Commercial &	EE	2013	Dx		N/A		1.0		
	34	LDC	Consumer	Appliance Retirement	PowerStream	Residential	EE	2013	Dx		N/A	Appliances	0.9	0.1	856.5
for 2012	**35**	**LDC**	**Consumer**	**HVAC**	**PowerStrean**	**Residential**	**EE**	**2012**	**Dx**		**Blended Loa**	**Equipment**	**1.3**	**0.6**	**1,129.4**

ıorting Documentation:
istence Savings Results from IESO

Net Verified Annual Peak Demand Savings at the End-User Level (kW)

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
	5.2	**5.2**	**5.2**	**5.2**																				
		79.3	79.3	79.3	79.3																			
		1,921.5																						
		778.3	778.3	778.3	778.3	778.3	778.3	778.3	778.3	778.3	778.3	729.2	729.2	729.2	729.2	726.4	-	-	-	-	-	-	-	-
	493.8	**493.8**	**493.6**	**490.4**	**490.4**	**479.3**	**475.4**	**475.4**	**468.0**	**442.0**	**382.9**	**371.9**	**327.0**	**321.9**	**321.9**	**234.1**	**13.7**	**13.7**	**13.7**	**13.7**	**-**	**-**	**-**	**-**
		5,114.5	5,108.3	5,098.2	5,060.0	4,867.3	4,789.9	4,789.9	4,788.2	4,659.9	4,124.1	3,485.7	3,471.8	1,505.0	1,463.4	1,463.4	1,263.6	421.7	414.9	414.9	414.9	-	-	-
	3.2	**3.2**	**3.2**	**2.8**	**2.8**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.3**	**0.3**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
		2,326.6	2,326.6	2,206.9	1,825.6	760.5	756.6	756.6	743.5	743.5	743.5	717.6	324.7	27.2	27.2	27.2	-	-	-	-	-	-	-	-
-	-	34.3	34.3	33.1	28.3	28.3	28.3	28.3	28.3	21.2	21.2	17.0	17.0	17.0	17.0	17.0	17.0	16.4	9.6	9.6	9.6	-	-	-
		38.7	38.7	38.7	38.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		53.0	53.0	53.0	52.0	32.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	78.6	78.6	74.3	59.5	59.5	59.5	59.5	59.4	51.1	51.1	37.1	23.9	23.9	23.5	23.5	23.2	20.0	11.8	11.8	11.8	-	-	-
-	-	45.5	44.1	44.0	40.8	39.4	38.3	37.0	37.0	23.3	23.0	18.9	18.9	15.9	15.9	6.0	4.9	4.9	4.9	4.9	4.9	3.1	-	-
		1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,286.8	-	-	-	-
1.4	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	**1.1**	**-**	**-**	**-**	**-**	**-**	**-**
	32.2	**32.2**	**32.2**	**32.2**	**32.2**	**32.2**	**32.2**	**32.2**	**32.2**	**32.2**	**32.2**	**32.2**	**32.2**	**32.2**	**32.2**	**32.2**	**32.2**	**32.2**	**32.2**	**27.1**	**-**	**-**	**-**	**-**
		27.2																						
		276.0																						
		353.1																						
		1,987.9																						
		795.2																						
		1,220.3																						
		1,038.7																						
		6,198.8																						
		-																						
		-																						
		4,959.4																						
		1,446.9																						
-	-	420.8	95.7	95.7	84.7	20.0	0.7	0.7	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.2	**3.2**	**3.2**	**3.2**	**3.2**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
-	**184.7**	**184.7**	**184.7**	**184.7**	**184.7**	**170.0**	**170.0**	**170.0**	**132.0**	**132.0**	**132.0**	**132.0**	**132.0**	**132.0**	**132.0**	**52.0**	**52.0**	**52.0**	**52.0**	**52.0**	**-**	**-**	**-**	**-**
-	-	5.2	5.2	5.2	5.2	5.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5											
-	-	0.1	0.1	0.1	0.1	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**-**	**-**	**-**	**-**

Net Verified Annual Energy Savings at the End-User Level (kWh)

2036	2037	2038	2039	2040		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
							25,176.3	25,176.3	25,176.3	25,176.3								
								436,056.9	436,056.9	436,056.9	436,056.9							
								28,335.8										
-	-	-	-	-		-	-	1,579,613.1	1,579,613.1	1,579,613.1	1,579,613.1	1,579,613.1	1,579,613.1	1,579,613.1	1,579,613.1	1,579,613.1	1,579,613.1	1,274,189.2
-	-	-	-	-		-	2,712,548.2	2,712,548.2	2,711,913.9	2,700,377.5	2,700,377.5	2,660,248.3	2,642,538.8	2,642,538.8	2,612,035.6	2,494,611.5	2,221,019.9	2,175,842.0
-	-	-	-	-		-	-	28,469,682.0	28,448,544.1	28,412,483.3	28,293,824.3	27,648,870.3	27,240,344.3	27,240,344.3	27,195,210.4	26,756,851.7	23,875,070.1	20,057,295.8
-	-	-	-	-			13,972.8	13,972.8	13,972.8	12,582.6	12,582.6	3,085.0	3,085.0	3,085.0	3,085.0	3,085.0	1,313.9	1,313.9
-	-	-	-	-				7,944,312.5	7,944,312.5	7,498,603.0	6,038,248.3	2,701,017.2	2,688,801.7	2,688,801.7	2,675,740.5	2,675,740.5	2,675,740.5	2,440,160.2
-	-	-	-	-		-	-	511,654.7	511,654.7	491,937.7	416,772.7	416,772.7	416,772.7	416,772.7	416,425.4	302,811.2	302,811.2	275,330.0
-	-	-	-	-				69,085.3	69,085.3	69,085.3	69,085.3	-	-	-	-	-	-	-
-	-	-	-	-				354,569.7	354,569.7	354,569.7	353,646.8	219,260.2	-	-	-	-	-	-
-	-	-	-	-		-	-	1,140,455.9	1,140,455.9	1,071,740.7	837,233.1	837,233.1	837,233.1	837,233.1	836,246.5	703,234.7	703,234.7	611,927.6
-	-	-	-	-		-	-	595,251.2	568,879.2	566,404.8	504,869.8	478,089.0	456,920.9	431,665.8	422,616.0	159,748.1	159,456.1	123,635.3
-	-	-	-	-				2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8
-	-	-	-	-		2,560.2	2,560.2	2,560.2	2,560.2	2,560.2	2,560.2	2,560.2	2,560.2	2,560.2	2,560.2	2,560.2	2,560.2	2,560.2
-	-	-	-	-			64,771.2	64,771.2	64,771.2	64,771.2	64,771.2	64,771.2	64,771.2	64,771.2	64,771.2	64,771.2	64,771.2	64,771.2
								61.6										
								646.7										
								806.8										
								5,016.0										
								2,113.6										
								3,120.7										
								2,639.2										
								1,843.8										
								-										
								-										
								124,709.8										
								32,946.1										
-	-	-	-	-		-	-	3,717,681.6	1,523,477.5	1,523,477.5	1,356,131.5	693,704.6	510,624.0	510,624.0	510,624.0	-	-	-
-	-	-	-	-		5,574.0	5,574.0	5,574.0	5,574.0	5,574.0	-	-	-	-	-	-	-	-
-	-	-	-	-		-	1,234,217.0	1,234,217.0	1,234,217.0	1,234,217.0	1,234,217.0	1,182,970.0	1,182,970.0	1,182,970.0	841,617.0	841,617.0	841,617.0	841,617.0
-	-	-	-	-		-	-	7,515.0	7,515.0	7,515.0	7,515.0	7,515.0	-	-	-	-	-	-
								221,916.0	221,916.0	221,916.0	221,916.0	221,916.0	221,916.0	221,916.0	221,916.0	221,916.0	221,916.0	221,916.0
-	-	-	-	-		-	-	406.0	406.0	406.0	406.0	219.3	-	-	-	-	-	-
-	-	-	-	-		-	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0	551.0

2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
1,274,189.2	1,274,189.2	1,274,189.2	1,257,812.7	-	-	-	-	-	-	-	-	-	-	-	-	-
1,905,964.5	**1,887,539.0**	**1,887,539.0**	**1,359,885.8**	**35,763.0**	**35,763.0**	**35,763.0**	**35,763.0**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
19,683,069.9	8,197,275.5	8,046,095.0	8,046,095.0	6,637,302.8	885,974.3	870,640.1	870,640.1	870,640.1	-	-	-	-	-	-	-	-
-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
965,484.2	27,183.5	27,183.5	27,183.5	-	-	-	-	-	-	-	-	-	-	-	-	-
271,409.1	271,409.1	270,293.4	270,293.4	270,064.7	261,719.3	153,623.4	153,623.4	153,623.4	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
393,410.3	393,410.3	372,648.7	372,648.7	369,982.8	319,357.3	187,455.6	187,455.6	187,455.6	-	-	-	-	-	-	-	-
123,635.3	113,504.0	113,504.0	36,414.7	27,437.7	27,437.7	27,437.7	27,437.7	27,437.7	22,729.6	-	-	-	-	-	-	-
2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,498,643.1	-	-	-	-	-	-	-	-	-
2,560.2	**2,560.2**	**2,560.2**	**2,560.2**	**2,560.2**	**2,278.6**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
64,771.2	**64,771.2**	**64,771.2**	**64,771.2**	**64,771.2**	**64,771.2**	**59,593.7**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
841,617.0	**841,617.0**	**841,617.0**	**379,600.0**	**379,600.0**	**379,600.0**	**379,600.0**	**379,600.0**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221,916.0																
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
551.0	**551.0**	**551.0**	**551.0**	**551.0**	**551.0**	**512.8**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Ontario Energy Board

Supporting Doc
2014 LDC Persistence Sav

Legend User Inputs (Green)

Instructions (Grey)

Table 7-d. 2014 Persisting Savings

Go to Tab 4.

1. LDCs are requested to paste a copy of the 2014 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.

2. Please ensure that verified adjustments to 2014 programs that become available in future evaluation audits are included in the 2014 form below.

#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	(Implementation) Year	Tx (Transmission) or Dx (Distribution) Connected	Status	Notes	Activity Unit Name	Activity / Participation (i.e. # of appliances)	Gross Summer Peak Demand Savings (kW)	Gross Energy Savings (kWh)
1		Consumer	Appliance Retirement				2014							
2		Consumer	Appliance Exchange				2014							
3		Consumer	HVAC				2014							
4		Consumer	Conservation Instant Coupons Initiative				2014							
5							2014							
6		Consumer	New Construction				2014							
7		Business	Retrofit				2014							
8		Business	SBL				2014							
9		Business	Commissioning				2014							
10		Business	New Construction				2014							
11		Business	Audit Funding				2014							
12		Industrial	EEM				2014							
13		Industrial	REM				2014							
14		Low Income	HAP				2014							
15		Business	Loblaws Pilot				2014							
16		Program Enabled	Program Enabled Savings											
17														
18														
19														
20														
21														
22														
23														
24														
25														
etc.														

umentation:
ings Results from IESO

Net Verified Annual Peak Demand Savings at the End-User Level (kW)

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
0	0	0	52	52	52	51	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	49	49	49	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	1,887	0	0	0	0	0	0	0	0
0	0	0	150	141	136	136	136	136	136	136	136	120	85	85	85	85	85	84	37	37	37	37	0	0	0	0	0	0	0
0	0	0	534	466	431	431	431	431	431	430	430	402	366	310	310	308	308	308	250	250	250	250	0	0	0	0	0	0	0
0	0	0	9	9	9	9	9	9	9	9	9	9	9	9	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
0	0	0	6,546	6,545	6,545	6,434	6,434	6,434	6,190	6,190	5,880	4,849	3,759	3,664	2,211	2,207	2,207	1,778	465	465	465	465	0	0	0	0	0	0	0
0	0	0	2,609	2,556	2,429	1,561	1,561	1,561	1,561	1,560	1,560	1,560	1,536	455	10	10	10	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	58	58	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	2,555	2,555	2,555	2,555	2,555	2,555	2,555	2,555	2,555	2,555	2,555	2,544	2,542	2,542	2,517	11	11	0	0	0	0	0	0	0	0	0	0
0	0	0	401	401	401	401	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	221	205	205	205	205	205	205	205	205	205	130	67	65	65	59	48	48	48	48	48	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	34	34	32	31	30	30	29	29	19	19	17	17	15	15	4	4	4	4	4	4	2	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	217	217	217	217	217	12	12	12	12	12	12	12	12	12	12	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Net Verified Annual Energy Savings at the End-User Level (kWh)

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
0	0	0	347,037	347,037	347,037	346,306	218,798	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	86,818	86,818	86,818	86,818	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,688,983	0
0	0	0	2,017,781	1,874,707	1,798,259	1,798,259	1,798,259	1,798,259	1,798,259	1,794,996	1,794,996	1,549,058	1,369,921	1,353,300	1,353,300	1,345,466	1,345,466	1,342,411	586,130	586,130	586,130	586,130
0	0	0	8,158,701	7,077,587	6,514,170	6,514,170	6,514,170	6,514,170	6,514,170	6,511,348	6,511,348	6,055,916	5,887,503	4,978,522	4,978,522	4,907,230	4,907,230	4,900,292	3,983,616	3,983,616	3,983,616	3,983,616
0	0	0	150,061	150,061	150,061	150,061	150,061	150,061	150,061	150,061	150,061	150,061	150,061	150,061	107,285	107,285	107,285	107,285	107,285	107,285	107,285	107,285
0	0	0	43,902,735	43,900,082	43,900,082	43,507,635	43,507,635	43,507,635	41,962,234	41,962,234	40,321,102	33,509,881	26,297,460	25,370,302	15,675,913	15,663,945	15,663,945	12,405,527	1,075,928	1,075,928	1,075,928	1,075,928
0	0	0	9,552,857	9,343,643	8,837,067	5,978,873	5,978,873	5,978,873	5,978,873	5,978,303	5,978,303	5,978,303	5,753,472	1,486,043	9,627	9,627	9,627	0	0	0	0	0
0	0	0	109,537	109,537	109,537	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	7,971,154	7,971,154	7,971,154	7,971,154	7,971,154	7,971,154	7,971,154	7,971,154	7,971,154	7,971,154	7,971,154	7,952,311	7,947,990	7,947,990	7,736,655	83,792	83,792	0	0	0
0	0	0	1,958,207	1,958,207	1,958,207	1,958,207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1,183,172	1,183,172	1,183,172	1,183,172	1,183,172	1,183,172	1,183,172	1,183,172	1,183,172	1,183,172	814,239	391,376	322,485	322,485	309,525	295,779	295,779	295,779	295,779	295,779
0	0	0	2,009	2,009	2,009	2,009	2,009	2,009	2,009	2,009	2,009	2,009	2,009	2,009	0	0	0	0	0	0	0	0
0	0	0	433,704	432,415	386,154	368,180	343,592	343,592	334,783	329,674	132,539	132,141	118,774	118,774	109,986	109,986	20,541	19,291	19,291	19,291	19,291	19,291
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1,291,513	1,291,513	1,291,513	1,291,513	1,291,513	112,076	112,076	112,076	112,076	112,076	112,076	112,076	112,076	112,076	112,076	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

2034	2035	2036	2037	2038	2039	2040
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
107,285	107,285	107,285	107,285	107,285	107,285	107,285
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
15,192	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

Ontario Energy Board

2015 LD

Legend	
	User Inputs (Green)
	Instructions (Grey)

Table 7-e. 2015 Persisting Savings

Go to Tab 5.

1. LDCs are requested to paste a copy of the 2015 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.

2. Please ensure that verified adjustments to 2015 programs that become available in future evaluation audits are included in the 2015 form below.

#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	(Implementation) Year	Tx (Transmission) or Dx (Distribution) Connected	Status	Notes	Activity Unit Name
1		**Coupon Initiative**									
2		**Bi-Annual Retailer Event Initiative**									
3		**Appliance Retirement Initiative**									
4		**HVAC Incentives Initiative**									
5											
6		**Energy Audit Initiative**									
7		**Efficiency: Equipment Replacement Incentive Initiative**									
8		**Direct Install Lighting and Water Heating Initiative**									
9		**New Construction and Major Renovation Initiative**									
10		**Existing Building Commissioning Incentive Initiative**									
11		**Process and Systems Upgrades Initiatives - Project Incentive Initiative**									
12		**Process and Systems Upgrades Initiatives - Energy Manager Initiative**									
13		**Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiative**									
14		**Low Income Initiative**									
15		**Loblaws Pilot**									
16		**Social Benchmarking Pliot**									
17		**Conservation Fund Pilot - SEG**									
18		**Conservation Fund Pilot - EnerNOC**									
19		**Aboriginal Conservation Program**									
20		**Program Enabled Savings**									
New Framewo 21		Save on Energy Coupon Program									
New Framewo 22		Save on Energy Heating and Cooling Program									
New Framewo 23		Save on Energy Home Assistance Program									
New Framewo 24		Save on Energy Audit Funding Program									
New Framewo etc.		Save on Energy Retrofit Program									

Supporting Docum
C Persistence Saving

Activity / Participation (i.e. # of appliances)	Gross Summer Peak Demand Savings (kW)	Gross Energy Savings (kWh)

nentation:
gs Results from IESO

	Net Verified Annual Peak Demand Savings at the End-User Level (kW)																		
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
					69.0	**69.0**	**69.0**	**69.0**	**69.0**	**69.0**	**69.0**	**69.0**	**69.0**	**69.0**	**56.0**	**56.0**	**56.0**	**56.0**	**56.0**
					163.0	**158.0**	**158.0**	**158.0**	**158.0**	**158.0**	**158.0**	**158.0**	**158.0**	**158.0**	**118.0**	**102.0**	**102.0**	**102.0**	**102.0**
					23.0	**23.0**	**23.0**	**22.0**	**14.0**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
					1,685.0	**1,685.0**	**1,685.0**	**1,685.0**	**1,685.0**	**1,685.0**	**1,685.0**	**1,685.0**	**1,685.0**	**1,685.0**	**1,685.0**	**1,685.0**	**1,685.0**	**1,685.0**	**1,685.0**
					21.0	**21.0**	**21.0**	**21.0**	**21.0**	**21.0**	**21.0**	**21.0**	**21.0**	**21.0**	**21.0**	**21.0**	**21.0**	**21.0**	**21.0**
					187.0	**187.0**	**187.0**	**187.0**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
					6,257.0	**6,257.0**	**6,218.0**	**6,218.0**	**6,218.0**	**6,218.0**	**6,047.0**	**6,047.0**	**5,859.0**	**5,299.0**	**3,809.0**	**3,726.0**	**2,621.0**	**2,603.0**	**2,603.0**
					487.0	**465.0**	**311.0**	**311.0**	**311.0**	**311.0**	**311.0**	**311.0**	**311.0**	**311.0**	**306.0**	**132.0**	**-**	**-**	**-**
					316.0	**316.0**	**316.0**	**316.0**	**316.0**	**316.0**	**316.0**	**316.0**	**315.0**	**315.0**	**315.0**	**315.0**	**314.0**	**314.0**	**276.0**
					-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
					-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
					274.0	**220.0**	**200.0**	**200.0**	**196.0**	**175.0**	**158.0**	**150.0**	**138.0**	**123.0**	**45.0**	**21.0**	**21.0**	**21.0**	**-**
					-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
					12.0	**10.0**	**10.0**	**10.0**	**10.0**	**10.0**	**10.0**	**10.0**	**7.0**	**7.0**	**7.0**	**7.0**	**6.0**	**6.0**	**1.0**
					131.0	**131.0**	**131.0**	**131.0**	**131.0**	**131.0**	**131.0**	**131.0**	**131.0**	**131.0**	**-**	**-**	**-**	**-**	**-**
					-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
					-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
					-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
					-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
					27.0	**27.0**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
					424.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	370.0	369.0	369.0	367.0	367.0
					1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					592.0	592.0	581.0	581.0	581.0	581.0	553.0	553.0	542.0	450.0	229.0	229.0	110.0	110.0	110.0

												Net Verified Annual Energy Savings at the End-User Level (kWh)						
2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040		2011	2012	2013	2014	2015	2016	2017
56.0	**22.0**	**22.0**	**22.0**	**22.0**	**-**	**-**	**-**	**-**	**-**	**-**						**1,027,535.0**	**1,018,620.0**	**1,018,620.0**
102.0	**69.0**	**69.0**	**69.0**	**69.0**	**-**	**-**	**-**	**-**	**-**	**-**						**2,194,924.0**	**2,119,365.0**	**2,119,365.0**
-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**						**155,424.0**	**155,424.0**	**155,424.0**
1,685.0	**1,685.0**	**1,685.0**	**1,495.0**	**-**	**-**	**-**	**-**	**-**	**-**	**-**						**3,175,791.0**	**3,175,791.0**	**3,175,791.0**
21.0	**21.0**	**21.0**	**21.0**	**21.0**	**21.0**	**21.0**	**21.0**	**-**	**-**	**-**						**58,971.0**	**58,971.0**	**58,971.0**
-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**						**875,115.0**	**875,115.0**	**875,115.0**
1,866.0	**308.0**	**308.0**	**308.0**	**308.0**	**-**	**-**	**-**	**-**	**-**	**-**						**51,722,543.0**	**51,722,543.0**	**51,599,822.0**
-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**						**2,024,454.0**	**1,931,260.0**	**1,339,668.0**
-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**						**1,437,827.0**	**1,437,827.0**	**1,437,827.0**
-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**						**-**	**-**	**-**
-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**						**-**	**-**	**-**
-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**						**1,293,617.0**	**949,437.0**	**808,737.0**
-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**						**-**	**-**	**-**
1.0	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**-**	**-**	**-**	**-**	**-**						**147,287.0**	**115,538.0**	**110,988.0**
-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**						**901,493.0**	**901,493.0**	**901,493.0**
-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**						**-**	**-**	**-**
-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**						**-**	**-**	**-**
-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**						**130,073.0**	**-**	**-**
-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**						**-**	**-**	**-**
-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**						**235,240.0**	**235,240.0**	**-**
366.0	101.0	101.0	101.0	101.0	-	-	-	-	-	-						6,484,457.0	6,429,030.0	6,429,030.0
1,696.0	1,696.0	1,696.0	1,526.0	-	-	-	-	-	-	-						3,220,099.0	3,220,099.0	3,220,099.0
-	-	-	-	-	-	-	-	-	-	-						-	-	-
-	-	-	-	-	-	-	-	-	-	-						-	-	-
92.0	71.0	71.0	71.0	71.0	-	-	-	-	-	-						4,388,100.0	4,388,100.0	4,353,851.0

2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1,018,620.0	**1,018,620.0**	**1,018,620.0**	**1,018,620.0**	**1,018,276.0**	**1,018,276.0**	**1,018,276.0**	**897,223.0**	**892,900.0**	**892,900.0**	**891,106.0**	**891,106.0**	**890,669.0**
2,119,365.0	**2,119,365.0**	**2,119,365.0**	**2,119,365.0**	**2,119,365.0**	**2,119,365.0**	**2,119,365.0**	**1,879,773.0**	**1,625,033.0**	**1,625,033.0**	**1,625,033.0**	**1,625,033.0**	**1,625,033.0**
154,902.0	**94,825.0**	-	-	-	-	-	-	-	-	-	-	-
3,175,791.0	**3,175,791.0**	**3,175,791.0**	**3,175,791.0**	**3,175,791.0**	**3,175,791.0**	**3,175,791.0**	**3,175,791.0**	**3,175,791.0**	**3,175,791.0**	**3,175,791.0**	**3,175,791.0**	**3,175,791.0**
58,971.0	**58,971.0**	**58,971.0**	**58,971.0**	**58,971.0**	**58,971.0**	**58,971.0**	**58,971.0**	**58,971.0**	**58,971.0**	**58,971.0**	**58,971.0**	**58,971.0**
875,115.0	-	-	-	-	-	-	-	-	-	-	-	-
51,599,822.0	**51,599,822.0**	**51,599,822.0**	**50,635,032.0**	**50,635,032.0**	**49,277,020.0**	**45,797,398.0**	**34,800,889.0**	**32,466,175.0**	**17,844,990.0**	**17,789,612.0**	**17,789,612.0**	**12,430,736.0**
1,339,668.0	**1,339,668.0**	**1,339,668.0**	**1,339,668.0**	**1,339,668.0**	**1,339,668.0**	**1,339,668.0**	**1,288,435.0**	**512,252.0**	-	-	-	-
1,437,827.0	**1,437,827.0**	**1,437,827.0**	**1,437,827.0**	**1,437,827.0**	**1,434,849.0**	**1,434,849.0**	**1,434,849.0**	**1,434,849.0**	**1,426,262.0**	**1,426,262.0**	**1,330,511.0**	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
808,737.0	**793,295.0**	**752,682.0**	**643,670.0**	**620,972.0**	**590,250.0**	**492,441.0**	**199,030.0**	**55,120.0**	**55,120.0**	**55,120.0**	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
106,438.0	**103,950.0**	**103,950.0**	**101,695.0**	**98,746.0**	**50,947.0**	**50,839.0**	**50,075.0**	**50,075.0**	**48,541.0**	**48,541.0**	**4,848.0**	**4,848.0**
901,493.0	**901,493.0**	**901,493.0**	**901,493.0**	**901,493.0**	**901,493.0**	**901,493.0**	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
6,429,030.0	6,429,030.0	6,429,030.0	6,429,030.0	6,424,967.0	6,424,967.0	6,424,967.0	5,994,848.0	5,961,614.0	5,961,614.0	5,839,430.0	5,839,430.0	5,826,645.0
3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
4,353,851.0	4,353,851.0	4,353,851.0	4,182,174.0	4,182,174.0	4,142,538.0	3,581,795.0	2,225,182.0	2,217,083.0	603,928.0	603,928.0	603,928.0	460,858.0

2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
346,273.0	346,273.0	346,273.0	346,273.0	-	-	-	-	-	-
1,094,648.0	1,094,648.0	1,094,648.0	1,094,648.0	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
3,175,791.0	3,175,791.0	3,006,226.0	-	-	-	-	-	-	-
58,971.0	58,971.0	58,971.0	58,971.0	51,586.0	51,586.0	51,586.0	-	-	-
-	-	-	-	-	-	-	-	-	-
808,201.0	808,201.0	808,201.0	808,201.0	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
4,848.0	4,848.0	4,848.0	4,848.0	4,140.0	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
1,606,139.0	1,606,139.0	1,606,139.0	1,606,139.0	-	-	-	-	-	-
3,220,099.0	3,220,099.0	3,068,338.0	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
175,878.0	175,878.0	175,878.0	175,878.0	-	-	-	-	-	-

Ontario Energy Board

Supporting Docume
2016 LDC Persistence Savings

Legend	
	User Inputs (Green)
	Instructions (Grey)

Table 7-f. 2016 Persisting Savings

Go to Tab 5.

1. LDCs are requested to paste a copy of the 2016 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.

2. Please ensure that verified adjustments to 2016 programs that become available in future evaluation audits are included in the 2016 form below.

#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	(Implementation) Year	Tx (Transmission) or Dx (Distribution) Connected	Status	Notes	Activity Unit Name	Activity / Participation (i.e. # of appliances)	Gross Summer Peak Demand Savings (kW)	Gross Energy Savings (kWh)		Net Verifi
																2011
1	Save on Energy Coupon Program															
2	Save on Energy Heating & Cooling Program															
3	Save on Energy New Construction Program															
4	Save on Energy Audit Funding Program															
5	Save on Energy Retrofit Program															
6	Save on Energy Small Business Lighting Program															
7	Save on Energy High Performance New Construction Program															
8	Save on Energy Energy Manager Program															
9	Business Refrigeration Incentives Local Program															
10	Truckload Event Pilot Program															
11	Home Depot Home Appliance Market Uplift Conservation Fund Pilot Program															
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
etc.																

entation:
Results from IESO

ed Annual Peak Demand Savings at the End-User Level (kW)

2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
				2,147.0	2,147.0	2,147.0	2,147.0	2,147.0	2,147.0	2,147.0	2,147.0	2,147.0	2,137.0	2,056.0	2,056.0	2,056.0	2,054.0	1,798.0	1,798.0	787.0	-	-
				1,995.0	1,995.0	1,995.0	1,995.0	1,995.0	1,995.0	1,995.0	1,995.0	1,995.0	1,995.0	1,995.0	1,995.0	1,995.0	1,995.0	1,995.0	1,995.0	1,995.0	1,995.0	1,798.0
				104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	101.0	-	-	-
				22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	6.0	-	-	-	-	-	-	-	-
				9,760.0	9,577.0	9,577.0	9,577.0	9,577.0	9,511.0	9,511.0	9,511.0	9,466.0	9,466.0	9,346.0	7,600.0	4,751.0	4,751.0	605.0	98.0	98.0	98.0	98.0
				15.0	15.0	15.0	15.0	14.0	14.0	11.0	10.0	9.0	7.0	6.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
				397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	298.0	242.0	238.0	231.0
				145.0	79.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	46.0	25.0	25.0	25.0	20.0	20.0	20.0	20.0	20.0	20.0
				137.0	136.0	136.0	114.0	102.0	102.0	102.0	102.0	102.0	102.0	89.0	85.0	85.0	85.0	85.0	-	-	-	-
				13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	11.0	11.0	4.0	4.0	-	-
				1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	-

2035	2036	2037	2038	2039	2040		Net Verified Annual Energy Savings at the End-User Level (kWh)											
							2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
-	-	-	-	-	-							32,980,841.0	32,980,841.0	32,980,841.0	32,980,841.0	32,980,841.0	32,980,841.0	32,980,841.0
-	-	-	-	-	-							6,696,541.0	6,696,541.0	6,696,541.0	6,696,541.0	6,696,541.0	6,696,541.0	6,696,541.0
-	-	-	-	-	-							330,563.0	330,563.0	330,563.0	330,563.0	330,563.0	330,563.0	330,563.0
-	-	-	-	-	-							170,854.0	170,854.0	170,854.0	170,854.0	170,854.0	170,854.0	170,854.0
98.0	-	-	-	-	-							60,465,338.0	59,505,868.0	59,505,868.0	59,505,868.0	59,505,868.0	59,000,951.0	59,000,951.0
1.0	1.0	1.0	-	-	-							60,829.0	60,829.0	60,829.0	60,829.0	56,838.0	56,838.0	40,800.0
231.0	231.0	231.0	231.0	231.0	231.0							1,646,039.0	1,646,039.0	1,646,039.0	1,646,039.0	1,646,039.0	1,646,039.0	1,646,039.0
20.0	-	-	-	-	-							1,619,649.0	888,301.0	667,610.0	617,845.0	617,845.0	343,518.0	343,518.0
-	-	-	-	-	-							1,013,502.0	1,009,583.0	1,009,583.0	878,605.0	804,761.0	784,899.0	784,899.0
-	-	-	-	-	-							202,605.0	202,605.0	202,605.0	202,605.0	202,605.0	202,605.0	202,605.0
-	-	-	-	-	-							6,077.0	6,077.0	6,077.0	6,077.0	6,077.0	6,077.0	6,077.0

2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
32,975,449.0	32,975,449.0	32,819,269.0	32,386,370.0	32,366,345.0	32,366,345.0	32,193,898.0	28,113,020.0	28,113,020.0	12,529,658.0	-	-	-	-	-	-
6,696,541.0	6,696,541.0	6,696,541.0	6,696,541.0	6,696,541.0	6,696,541.0	6,696,541.0	6,696,541.0	6,696,541.0	6,696,541.0	6,696,541.0	6,520,592.0	-	-	-	-
330,563.0	330,563.0	330,563.0	330,563.0	330,563.0	330,563.0	330,563.0	330,563.0	320,393.0	-	-	-	-	-	-	-
170,854.0	170,854.0	170,854.0	42,182.0	-	-	-	-	-	-	-	-	-	-	-	-
59,000,951.0	58,676,226.0	58,676,226.0	57,941,446.0	48,819,150.0	26,272,122.0	26,272,122.0	2,673,019.0	75,780.0	75,780.0	75,780.0	75,780.0	75,780.0	-	-	-
34,589.0	29,548.0	22,234.0	18,598.0	7,001.0	1,980.0	1,980.0	1,980.0	1,980.0	1,980.0	1,980.0	1,980.0	1,980.0	1,980.0	1,980.0	-
1,646,039.0	1,646,039.0	1,646,039.0	1,646,039.0	1,646,039.0	1,646,039.0	1,646,039.0	1,646,039.0	1,220,094.0	981,218.0	954,161.0	899,463.0	899,463.0	899,463.0	899,463.0	899,463.0
343,518.0	343,518.0	295,986.0	152,324.0	152,324.0	152,324.0	145,604.0	145,604.0	145,604.0	145,604.0	145,604.0	145,604.0	145,604.0	-	-	-
784,899.0	784,899.0	784,899.0	736,152.0	713,410.0	713,410.0	713,410.0	713,410.0	-	-	-	-	-	-	-	-
202,605.0	202,605.0	202,605.0	202,605.0	202,605.0	202,605.0	169,609.0	169,609.0	60,975.0	60,975.0	-	-	-	-	-	-
6,077.0	6,077.0	6,077.0	6,077.0	6,077.0	6,077.0	6,077.0	4,572.0	4,572.0	4,572.0	4,572.0	-	-	-	-	-

2039	2040
-	-
-	-
-	-
-	-
-	-
-	-
899,463.0	899,463.0
-	-
-	-
-	-
-	-

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Instructions

1. Please update Table 6 as new approved prescribed interest rates for deferral and variance accounts become available. The quarterly interest rates are used to calculate the carrying charges for LRAMVA. Starting from column I, the principle will auto-populate as monthly variances in Table 6-a, and are multiplied by the interest rates from column H to determine the monthly variances on carrying charges for each rate class by year.
2. The annual carrying charges totals in Table 6-a below pertain to the amount that was originally collected in interest from forecasted CDM savings and what should have been collected based on actual CDM savings. As the amounts calculated in Table 6-a are cumulative, LDCs are requested to enter any collected interest amounts into the "Amounts Cleared" row in order to clear the balance and calculate outstanding variances on carrying charges.

Table 6. Prescribed Interest Rates

Quarter	Approved Deferral & Variance Accounts
2011 Q1	1.47%
2011 Q2	1.47%
2011 Q3	1.47%
2011 Q4	1.47%
2012 Q1	1.47%
2012 Q2	1.47%
2012 Q3	1.47%
2012 Q4	1.47%
2013 Q1	1.47%
2013 Q2	1.47%
2013 Q3	1.47%
2013 Q4	1.47%
2014 Q1	1.47%
2014 Q2	1.47%
2014 Q3	1.47%
2014 Q4	1.47%
2015 Q1	1.47%
2015 Q2	1.10%
2015 Q3	1.10%
2015 Q4	1.10%
2016 Q1	1.10%
2016 Q2	1.10%
2016 Q3	1.10%
2016 Q4	1.10%
2017 Q1	1.10%
2017 Q2	1.10%
2017 Q3	1.10%
2017 Q4	1.50%
2018 Q1	
2018 Q2	
2018 Q3	
2018 Q4	
2019 Q1	
2019 Q2	
2019 Q3	
2019 Q4	
2020 Q1	
2020 Q2	
2020 Q3	
2020 Q4	

Check OEB website

Table 6-a. Calculation of Carrying Costs by Rate Class

Go to Tab 1: Summary

Month	Period	Quarter	Monthly Rate	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Total
Jan-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2011				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared											
Opening Balance for 2012				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2012				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared											
Opening Balance for 2013				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2013				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared											
Opening Balance for 2014				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-14	2011-2014	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-14	2011-2014	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-14	2011-2014	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-14	2011-2014	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

May-14	2011-2014	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-14	2011-2014	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-14	2011-2014	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-14	2011-2014	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-14	2011-2014	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-14	2011-2014	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-14	2011-2014	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-14	2011-2014	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2014				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared											
Opening Balance for 2015				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-15	2011-2015	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-15	2011-2015	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-15	2011-2015	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-15	2011-2015	Q2	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-15	2011-2015	Q2	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-15	2011-2015	Q2	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-15	2011-2015	Q3	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-15	2011-2015	Q3	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-15	2011-2015	Q3	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-15	2011-2015	Q4	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-15	2011-2015	Q4	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-15	2011-2015	Q4	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2015				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared											
Opening Balance for 2016				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-16	2011-2016	Q1	0.09%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-16	2011-2016	Q1	0.09%	$49.05	$48.07	$77.71	-$0.41	-$0.26	-$0.01	$12.74	$186.88
Mar-16	2011-2016	Q1	0.09%	$98.09	$96.14	$155.41	-$0.82	-$0.52	-$0.03	$25.47	$373.75
Apr-16	2011-2016	Q2	0.09%	$147.14	$144.21	$233.12	-$1.23	-$0.77	-$0.04	$38.21	$560.63
May-16	2011-2016	Q2	0.09%	$196.18	$192.28	$310.82	-$1.64	-$1.03	-$0.05	$50.95	$747.50
Jun-16	2011-2016	Q2	0.09%	$245.23	$240.35	$388.53	-$2.05	-$1.29	-$0.06	$63.68	$934.38
Jul-16	2011-2016	Q3	0.09%	$294.28	$288.41	$466.23	-$2.47	-$1.55	-$0.08	$76.42	$1,121.25
Aug-16	2011-2016	Q3	0.09%	$343.32	$336.48	$543.94	-$2.88	-$1.81	-$0.09	$89.16	$1,308.13
Sep-16	2011-2016	Q3	0.09%	$392.37	$384.55	$621.64	-$3.29	-$2.07	-$0.10	$101.89	$1,495.00
Oct-16	2011-2016	Q4	0.09%	$441.41	$432.62	$699.35	-$3.70	-$2.32	-$0.11	$114.63	$1,681.88
Nov-16	2011-2016	Q4	0.09%	$490.46	$480.69	$777.05	-$4.11	-$2.58	-$0.13	$127.36	$1,868.75
Dec-16	2011-2016	Q4	0.09%	$539.50	$528.76	$854.76	-$4.52	-$2.84	-$0.14	$140.10	$2,055.63
Total for 2016				**$3,237.03**	**$3,172.56**	**$5,128.54**	**-$27.12**	**-$17.04**	**-$0.83**	**$840.61**	**$12,333.76**
Amount Cleared											
Opening Balance for 2017				**$3,237.03**	**$3,172.56**	**$5,128.54**	**-$27.12**	**-$17.04**	**-$0.83**	**$840.61**	**$12,333.76**
Jan-17	2011-2017	Q1	0.09%	$588.55	$576.83	$932.46	-$4.93	-$3.10	-$0.15	$152.84	$2,242.50
Feb-17	2011-2017	Q1	0.09%	$588.55	$576.83	$932.46	-$4.93	-$3.10	-$0.15	$152.84	$2,242.50
Mar-17	2011-2017	Q1	0.09%	$588.55	$576.83	$932.46	-$4.93	-$3.10	-$0.15	$152.84	$2,242.50
Apr-17	2011-2017	Q2	0.09%	$588.55	$576.83	$932.46	-$4.93	-$3.10	-$0.15	$152.84	$2,242.50
May-17	2011-2017	Q2	0.09%	$588.55	$576.83	$932.46	-$4.93	-$3.10	-$0.15	$152.84	$2,242.50
Jun-17	2011-2017	Q2	0.09%	$588.55	$576.83	$932.46	-$4.93	-$3.10	-$0.15	$152.84	$2,242.50
Jul-17	2011-2017	Q3	0.09%	$588.55	$576.83	$932.46	-$4.93	-$3.10	-$0.15	$152.84	$2,242.50
Aug-17	2011-2017	Q3	0.09%	$588.55	$576.83	$932.46	-$4.93	-$3.10	-$0.15	$152.84	$2,242.50
Sep-17	2011-2017	Q3	0.09%	$588.55	$576.83	$932.46	-$4.93	-$3.10	-$0.15	$152.84	$2,242.50
Oct-17	2011-2017	Q4	0.13%	$802.57	$786.59	$1,271.54	-$6.72	-$4.22	-$0.20	$208.42	$3,057.96
Nov-17	2011-2017	Q4	0.13%	$802.57	$786.59	$1,271.54	-$6.72	-$4.22	-$0.20	$208.42	$3,057.96
Dec-17	2011-2017	Q4	0.13%	$802.57	$786.59	$1,271.54	-$6.72	-$4.22	-$0.20	$208.42	$3,057.96
Total for 2017				**$10,941.69**	**$10,723.79**	**$17,335.31**	**-$91.66**	**-$57.60**	**-$2.79**	**$2,841.39**	**$41,690.14**
Amount Cleared											
Opening Balance for 2018				**$10,941.69**	**$10,723.79**	**$17,335.31**	**-$91.66**	**-$57.60**	**-$2.79**	**$2,841.39**	**$41,690.14**
Jan-18	2011-2018	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-18	2011-2018	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-18	2011-2018	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-18	2011-2018	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-18	2011-2018	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-18	2011-2018	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-18	2011-2018	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-18	2011-2018	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-18	2011-2018	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-18	2011-2018	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-18	2011-2018	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-18	2011-2018	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2018				**$10,941.69**	**$10,723.79**	**$17,335.31**	**-$91.66**	**-$57.60**	**-$2.79**	**$2,841.39**	**$41,690.14**
Amount Cleared											
Opening Balance for 2019				**$10,941.69**	**$10,723.79**	**$17,335.31**	**-$91.66**	**-$57.60**	**-$2.79**	**$2,841.39**	**$41,690.14**
Jan-19	2011-2019	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-19	2011-2019	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-19	2011-2019	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-19	2011-2019	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-19	2011-2019	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-19	2011-2019	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-19	2011-2019	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-19	2011-2019	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-19	2011-2019	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-19	2011-2019	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

Nov-19	2011-2019	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-19	2011-2019	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2019				**$10,941.69**	**$10,723.79**	**$17,335.31**	**-$91.66**	**-$57.60**	**-$2.79**	**$2,841.39**	**$41,690.14**
Amount Cleared											
Opening Balance for 2020				**$10,941.69**	**$10,723.79**	**$17,335.31**	**-$91.66**	**-$57.60**	**-$2.79**	**$2,841.39**	**$41,690.14**
Jan-20	2011-2020	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-20	2011-2020	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-20	2011-2020	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-20	2011-2020	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-20	2011-2020	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-20	2011-2020	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-20	2011-2020	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-20	2011-2020	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-20	2011-2020	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-20	2011-2020	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-20	2011-2020	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-20	2011-2020	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2020				**$10,941.69**	**$10,723.79**	**$17,335.31**	**-$91.66**	**-$57.60**	**-$2.79**	**$2,841.39**	**$41,690.14**
Amount Cleared											

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Ontario Energy Board

LRAMVA Work Form:
Street Light Adjustment

NOTE:
This tab calculates an adjustment for the SL LED projects. This amount is incremental to the LRAMVA amounts accounted for in the LRAMVA Work Form (tabs 4. 2011-2014 LRAM and 5. 2015-2020 LRAM).

Table 8-1: Impact on Revenues - 2014 (according to billing dates)

	2014	2015
Street Lights Rates	$6.5692	$6.6546

Year	NTG Ratio
2015	76%

2014	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
LED Replacements:													
# of LED replacements			4,494			1,509	1,745	1,108					**8,856**
Running # of LED replacements			4,494	4,494	4,494	6,003	7,748	8,856	8,856	8,856	8,856	8,856	**8,856**
Load Reduction:													
kW Load Removed			690.276			232.844	256.833	259.377					**1,439.330**
Replacement kW Load			260.514			87.554	99.895	116.792					**564.755**
Reduction in kW demand	-	-	429.762	-	-	145.290	156.938	142.585	-	-	-	-	**874.575**
Reduction in Monthly kW demand			429.762	429.762	429.762	575.052	731.990	874.575	874.575	874.575	874.575	874.575	**5,290.939**
Revenue Reduction			**$ 2,143.34**	**$ 2,143.34**	**$ 2,143.34**	**$ 2,867.93**	**$ 3,650.63**	**$ 4,361.73**	**$ 4,361.73**	**$ 4,361.73**	**$ 4,361.73**	**$ 4,361.73**	**$ 34,757.24**
Accum. Revenue Reduction (2014 YTD)			$ 2,143.34	$ 4,286.67	$ 6,430.01	$ 9,297.94	$ 12,948.57	$ 17,310.30	$ 21,672.03	$ 26,033.77	$ 30,395.50	$ 34,757.24	**$ 34,757.24**
Carrying Charges:													
Principal balance	$ -	$ -	$ -	$ 2,143.34	$ 4,286.67	$ 6,430.01	$ 9,297.94	$ 12,948.57	$ 17,310.30	$ 21,672.03	$ 26,033.77	$ 30,395.50	
Interest Rate	1.47%	1.47%	1.47%	1.47%	1.47%	1.47%	1.47%	1.47%	1.47%	1.47%	1.47%	1.47%	
Days	31	28	31	30	31	30	31	31	30	31	30	31	**365**
Interest	$ -	$ -	$ -	$ 2.59	$ 5.35	$ 7.77	$ 11.61	$ 16.17	$ 20.91	$ 27.06	$ 31.45	$ 37.95	**$ 160.86**
Accumulated interest		$ -	$ -	$ 2.59	$ 7.94	$ 15.71	$ 27.32	$ 43.48	$ 64.40	$ 91.46	$ 122.91	$ 160.86	

Table 8-2: Impact on Revenues - 2015 (according to billing dates)

2015	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
LED Replacements:													
# of LED replacements				358	448	725		727		11,423			**13,681**
Running # of LED replacements	8,856	8,856	8,856	9,214	9,662	10,387	10,387	11,114	11,114	22,537	22,537	22,537	**22,537**
Load Reduction:													
kW Load Removed				107.400	134.400	217.500		215.350		2,042.693			**2,717.343**
Replacement kW Load				40.288	61.737	104.481		82.432		721.700			**1,010.638**
Reduction in kW demand	-	-	-	67.112	72.663	113.019	-	132.918	-	1,320.993	-	-	**1,706.705**
Reduction in Monthly kW demand	874.575	874.575	874.575	941.687	1,014.350	1,127.369	1,127.369	1,260.287	1,260.287	2,581.280	2,581.280	2,581.280	**12,981.299**
Revenue Reduction	**$ 4,418.44**	**$ 4,418.44**	**$ 4,418.44**	**$ 4,757.49**	**$ 5,124.59**	**$ 5,695.58**	**$ 5,695.58**	**$ 6,367.09**	**$ 6,367.09**	**$ 13,040.87**	**$ 13,040.87**	**$ 13,040.87**	**$ 86,385.35**
Accum. Revenue Reduction (2014-2015)	$ 39,175.67	$ 43,594.11	$ 48,012.55	$ 52,770.04	$ 57,894.63	$ 63,590.21	$ 69,285.78	$ 75,652.88	$ 82,019.97	$ 95,060.84	$ 108,101.71	$ 121,142.59	**$ 121,142.59**
Carrying Charges:													
Principal balance	$ 34,757.24	$ 39,175.67	$ 43,594.11	$ 48,012.55	$ 52,770.04	$ 57,894.63	$ 63,590.21	$ 69,285.78	$ 75,652.88	$ 82,019.97	$ 95,060.84	$ 108,101.71	
Interest Rate	1.47%	1.47%	1.47%	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	
Days	31	28	31	30	31	30	31	31	30	31	30	31	**365**
Interest	$ 43.39	$ 44.18	$ 54.43	$ 43.41	$ 49.30	$ 52.34	$ 59.41	$ 64.73	$ 68.40	$ 76.63	$ 85.95	$ 100.99	**$ 743.15**
Accumulated interest	$ 204.25	$ 248.43	$ 302.86	$ 346.27	$ 395.57	$ 447.91	$ 507.32	$ 572.05	$ 640.45	$ 717.07	$ 803.02	$ 904.01	

Interest on 2014 Balance	$ 43.39	$ 39.19	$ 43.39	$ 31.42	$ 32.47	$ 31.42	$ 32.47	$ 32.47	$ 31.42	$ 32.47	$ 31.42	$ 32.47
Interest on 2015 Activities		$ 4.98	$ 11.03	$ 11.98	$ 16.83	$ 20.92	$ 26.94	$ 32.26	$ 36.97	$ 44.16	$ 54.52	$ 68.52
Total	$ 43.39	$ 44.18	$ 54.43	$ 43.41	$ 49.30	$ 52.34	$ 59.41	$ 64.73	$ 68.40	$ 76.63	$ 85.95	$ 100.99
Var	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Table 8-3: LRAMVA - Street Light LED Adjustment SUMMARY (2014-2015)

	2014	2015	Total
LED Replacements in year	8,856	13,681	22,537
Reduction in kW demand	874.58	1,706.71	2,581.28
Reduction in billed kW	5,290.94	12,981.30	18,272.24
Revenue Reduction	$ 34,757.24	$ 86,385.35	$ 121,142.59
Carrying Charges	$ 160.86	$ 743.15	$ 904.01
Adjustment to Street Lighting LRAMVA	**$ 34,918.10**	**$ 87,128.51**	**$ 122,046.60**

Application Number	City	Completion Date	Gross Reported Savings (kWh)	Gross Verified Savings (kWh)	Net Verified Savings (kWh)	Persistence (Years)	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
118488	City of Markham	30-Jul-15	6,049,567	5,731,384	4,077,739	8 years @ 100%, then 1 year @ 86.97%, then 1 year @ 82.01%, then 1 year @ 34.58%	4,077,739	4,077,739	4,077,739	4,077,739	4,077,739	4,077,739	4,077,739	4,077,739	3,546,410	3,344,154	1,410,082
136829	City of Barrie	30-Oct-15	6,438,647	7,934,352	6,297,130	12 years @ 100%	6,297,130	6,297,130	6,297,130	6,297,130	6,297,130	6,297,130	6,297,130	6,297,130	6,297,130	6,297,130	6,297,130
149745	Town of Aurora	29-Jul-16	1,444,940	1,603,304	1,270,218	12 years at 100%	1,270,218	1,270,218	1,270,218	1,270,218	1,270,218	1,270,218	1,270,218	1,270,218	1,270,218	1,270,218	1,270,218

Net to Gross Ratio

				Total NTG Ratio	Average NTG Ratio	
2015	City of Markham	5,731,384	4,077,739	71%	76%	78%
	City of Barrie	7,934,352	6,297,130	79%		
2016	Town of Aurora	1,603,304	1,270,218	79%	79%	

ATTACHMENT 28
2016 FINAL IESO RESULTS REPORT
POWERSTREAM RZ

Final Verified 2016 Annual LDC CDM Program Results Report
Letter from the Vice-President, Conservation & Corporate Relations

June 30, 2017

I am pleased to provide LDCs with their Final Verified 2016 Annual Results Report. Collectively in 2016, LDCs achieved 1.2 TWh of energy savings persisting to 2020. When combined with the 2015 results, LDCs have achieved 2.6 TWh of energy savings, representing 38 % of the 7 TWh target. The results show positive progress towards the achievement of the Conservation First Framework (CFF) target and demonstrate the continued collaboration between LDCs and the IESO in promoting a culture of conservation across the province.

Key highlights from the 2016 final results include the following:

- The Coupons program produced a record achievement, delivering 428 GWh of energy savings in 2016, more than doubling the results from 2015. LED light bulbs remained the most common measure accounting for 75 % of coupons redeemed and 96 % of savings.

- The Retrofit program continues to be the highest performing program achieving 567 GWh of energy savings in 2016, despite experiencing a 29 % reduction in savings over the 2015 results (including adjustments). Lighting measures continue to produce the majority of savings, 74 % in 2016, with non-lighting measures accounting for the remainder.

- The success of the Coupons program supported residential sector programs in achieving a larger share of the portfolio savings in 2016 than in previous years, accounting for 44 % of target achievement, with business sector programs and local and pilot programs accounting for 54 % and 1 %, respectively.

  - It is important to note that there remains a considerable data lag, representing completed, but unreported projects for the Retrofit and Process and Systems Upgrades Programs. Together, these programs have roughly 250 GWh in unverified savings waiting to be reported by LDCs. It is anticipated that these savings will be reported in future year's 2016 adjustments.

- As with 2015, the IESO evaluation methodology enabled further granulation of net verified results in 2016, resulting in increased LDC-specific and regional level net-to-gross adjustment factors, where data permitted.

- Four LDCs have achieved at least 90 % of their CFF target, and nine others are above 50 %. These early successes are prompting increased dialogue between LDCs with respect to potential target exchange, which is both permitted and encouraged under the CFF.

There were minor revisions to the final results relative to the preliminary results including: 1) revisions/corrections to program savings assumptions / adjustments as required (primarily to participation levels for Coupons Program and Heating & Cooling Program); 2) the inclusion of an additional five LDC Innovation Fund and Conservation Fund Pilot Programs; and 3) amendments based on comments received by LDCs as part of their review of the preliminary results. Further details on the revisions between the preliminary and the final 2016 verified results can be found in the 2016 Frequently Asked Questions (FAQs) and Evaluation Findings Report which will be posted along with the results on the LDC extranet.

Please note that all results contained within this report are considered to be final verified results. Projects included in this report are reflected in the accompanying LDC Project List Report. Any program activity not captured in this report will be included as part of a future adjustment process.

In terms of next steps, as with the 2015 CFF results, Final Verified 2016 Annual Results Reports will be posted on the IESO website in early July. In addition, LDC-Program level and portfolio-level cost effectiveness test results will be available on September 15, 2017, as outlined in the Energy Conservation Agreement version 3.0 update. Finally, 2016 EM&V reports will be available later this summer along with key program recommendations to be shared with the LDC Working Groups and the IESO.

We appreciate your collaboration and cooperation throughout the reporting and evaluation process. As we look ahead, the IESO will be focusing on enhancing its communication and support services to further support LDCs in the delivery of programs and to increase customer participation in these programs. I look forward to continuing to work together in achieving success in the Conservation First Framework.

Sincerely,

Terry Young
Vice-President, Conservation & Corporate Relations
Independent Electricity System Operator

Final Verified 2016 Annual LDC CDM Program Results Report

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Final Verified 2016 Annual LDC CDM Program Results Report

How to Use this Report

The IESO is pleased to provide you with the 2016 Annual Verified Results Report.

This report provides:
1) electricity savings;
2) annual Full Cost Recovery funding model program progress; and
3) peak demand savings;
4) IESO Value Added Services Costs
in accordance with Section 9.2(b)(i) of the Energy Conservation Agreement.

In addition to the above, this report also provides in greater detail:
1) program participation results including:
a) forecasts; b) actuals; and c) progress (forecast versus (vs) actuals);

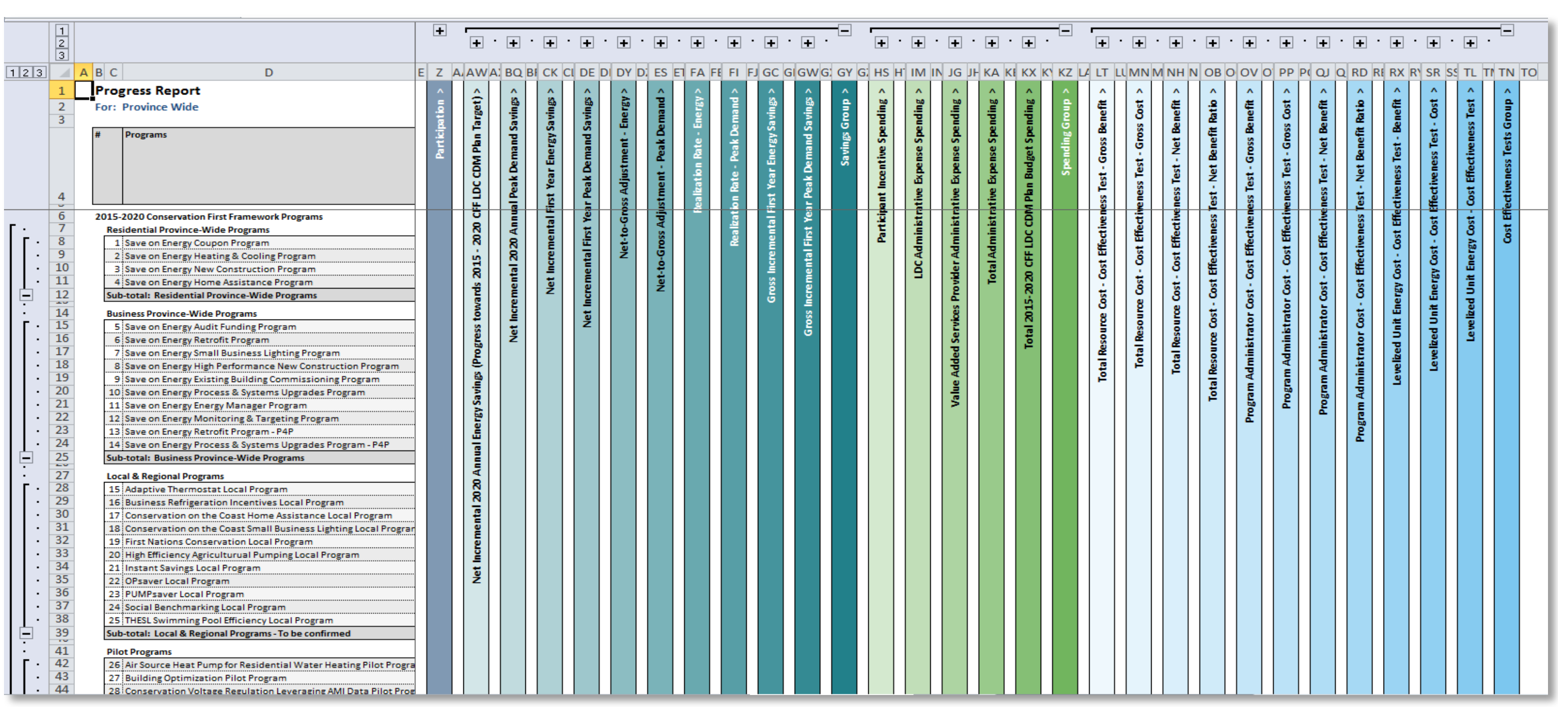
2) program savings results including:
a) net 2020 annual energy and peak demand savings;
b) allocated target, target achievement and progress towards target;
c) incremental net first year energy and peak demand savings;
d) annual net-to-gross and realization rate adjustments; and
e) incremental gross first year energy and peak demand savings;
and where available reported by: i) forecasts; ii) verified actuals; and iii) progress (forecast vs actuals);

3) program spending including:
a) participation incentive spending;
b) administrative expense spending (including IESO value-added services costs);
c) aggregated total spending; and
d) allocated budget, LDC CDM Plan budget spending and progress towards budget;
and for each cost: i) forecasts; ii) verified actuals; and iii) progress (forecast vs actuals);

4) program savings results persistence for:
a) gross energy savings;
b) gross peak demand savings;
c) net energy savings; and
d) net peak demand savings;

by both the LDC specific level and the province-wide aggregated level for 2016 and 2015 including 2015 Adjustments.

This report's format is consistent with the IESO issued Monthly Participation and Cost Report in that it is a dynamic sheet that can be expanded or collapsed by clicking the + button or "Show Detail" feature under the Data tab. Each of the four results categories listed above have been grouped together for easy accessibility.



Please note:
1) Cost Effectiveness Test (CET) results including:
a) total resource cost test;
b) program administration cost test;
c) levelized unit energy cost test;
and for each test: i) benefits; ii) cost; iii) net benefit; iv) benefit ratio; at the LDC and province wide level will not be available in this report but will be provided to LDCs by September 15 2017, as per the Energy Conservation Agreement, version 3.0.

2) forecasts of: a) activity; b) savings; and c) spending; included in this report are based on approved LDC CDM Plan - Cost Effectiveness Tools as of April 1, 2017 (from the i) Program Design; ii) Budget Inputs; iii) Savings Results; and iv) CE Results; worksheets);
Please note that this does not contain data for Legacy Framework program spending or CFF pilot program activity, savings, spending or cost effectiveness.

3) Annual FCR Progress only includes Full Cost Recovery funding model program savings results and excludes Pay-for-Performance funding model program savings results.

4) The complete list of approved programs and pilots as of April 1, 2017 approved LDC CDM Plans have been included, however only programs and pilots in market for a sufficient period of time to enable a valid EM&V process will have verified results.

5) 2015 Adjustments consists of projects completed in 2015 but were not reported to the IESO by the 2015 Verified Results Reporting deadline of March 31, 2016.

6) Pilot program savings are attributed to the LDC where the pilot program project is located in; and

7) This Annual Verified Results Report provides results for the LDC and province only. No aggregated reporting is provided for LDCs that are part of a joint CDM plan;

Final Verified 2016 Annual LDC CDM Program Results Report
Summary

For: PowerStream Inc.

Results

#	Metric	2015 Verified Results	2016 Verified Results	2015-2016 Verified Results	Allocated Target / Budget	2015-2016 Progress versus Allocated Target / Budget	2015-2020 LDC CDM Plan Forecast	2015-2016 Progress versus 2015-2020 LDC CDM Plan Forecast	2016 LDC CDM Plan Forecast	2016 Progress versus 2016 LDC CDM Plan Forecast	2015-2016 LDC CDM Plan Forecast	2015-2016 Progress versus 2015-2016 LDC CDM Plan Forecast
1	Net Verified Annual Energy Savings Persisting to 2020	97,487 MWh	103,019 MWh	200,506 MWh	535,440 MWh	37 %	535,440 MWh	37 %	76,739 MWh	134 %	165,941 MWh	121 %
2	LDC Ranking - Net Verified Annual Energy Savings Persisting to 2020	3	3	3	3	27	3	31	4	25	3	38
3	Total Spending ($)	$ 5,019,129	$ 19,030,891	$ 24,050,020	$ 140,696,240	17 %	$ 140,696,239	17 %	$ 26,679,184	71 %	$ 34,058,293	71 %
4	LDC Ranking - Total Spending ($)	2	3	3	3	8	3	9	3	28	3	31

Annual Results

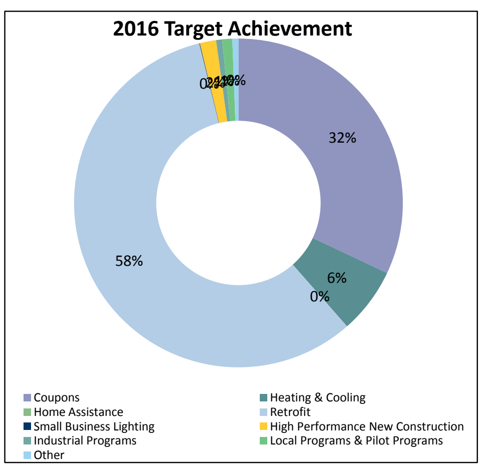
#	Metric	2015	2016	Total
1	Net Verified Annual Energy Savings Persisting to 2020 (MWh)	97,487 MWh	103,019 MWh	**200,506 MWh**
2	Net Verified Incremental First Year Energy Savings (MWh)	99,707 MWh	105,193 MWh	**204,900 MWh**
3	Total Spending ($)	$ 5,019,129	$ 19,030,891	**$ 24,050,020**

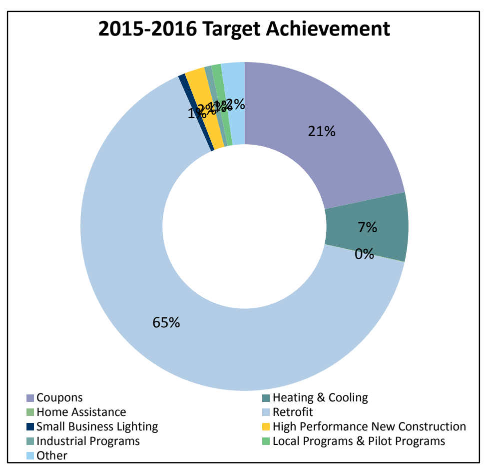
Cost Effectiveness

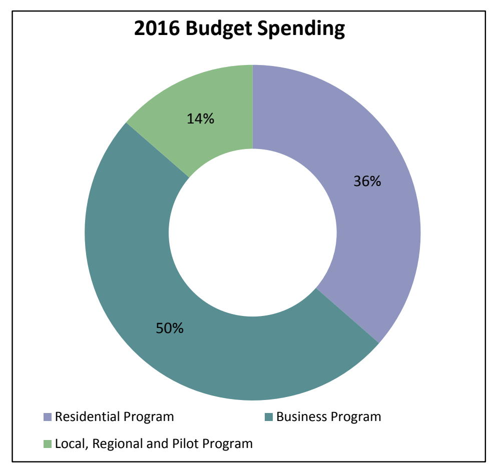
#	Test	2015	2016	Total
1	Total Resource Cost Test (Ratio)	n/a	tbd	**tbd**
2	Program Administrator Cost Test (Ratio)	n/a	tbd	**tbd**
3	Levelized Unit Energy Cost Result (¢/kWh)	n/a	tbd	**tbd**

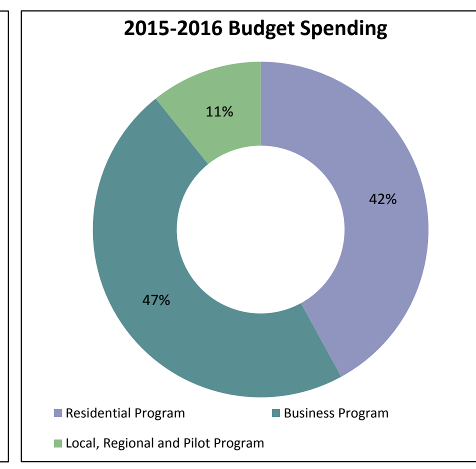
Annual FCR Progress

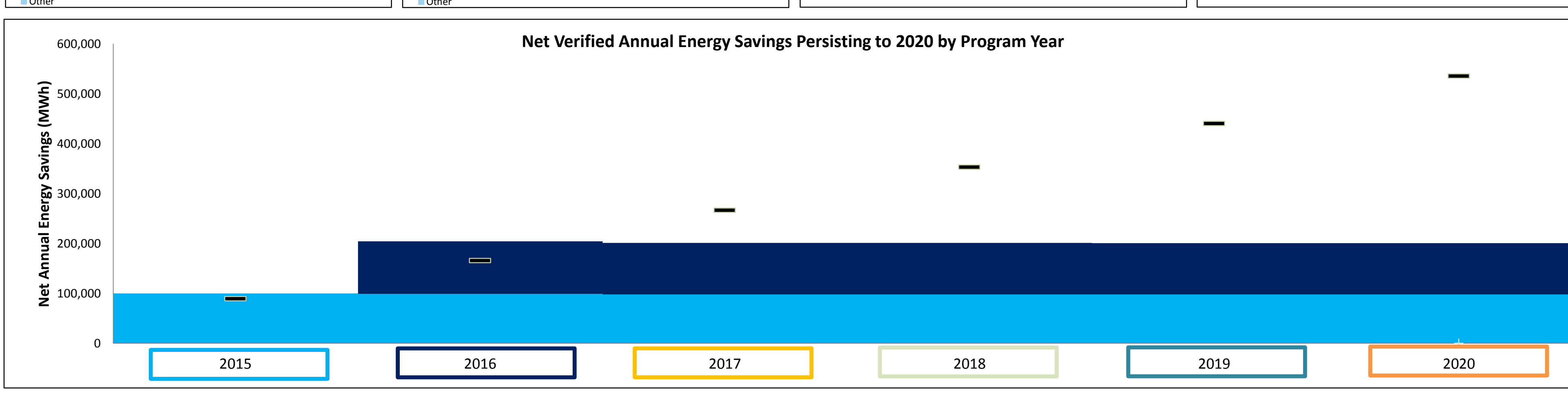
#	Metric	Result
1	2015-2016 Incremental Net Verified 2020 Annual Energy Savings from Full Cost Recovery Programs	**200,506 MWh**
2	2015-2016 Incremental Net 2020 Annual Energy Savingsfrom Full Cost Recovery Program per CDM Plan Forecast	**165,941 MWh**
3	FCR Progress (%)	**121 %**

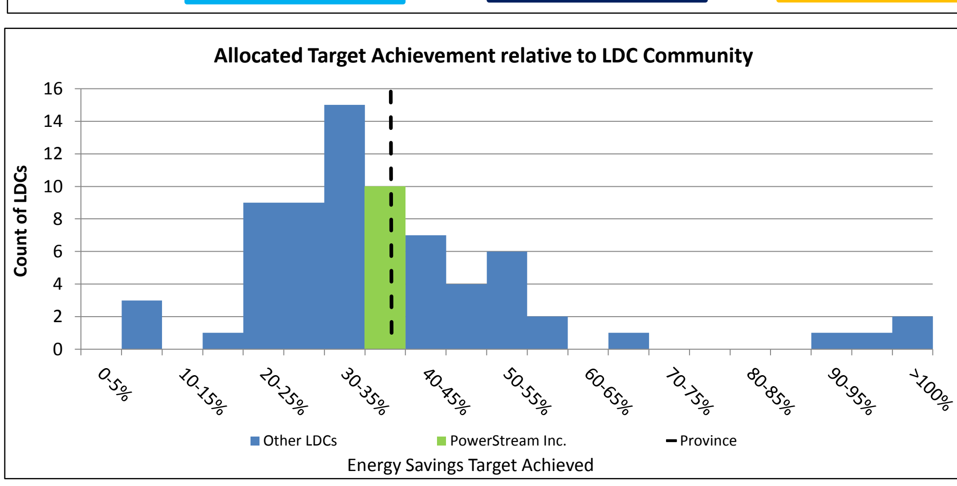


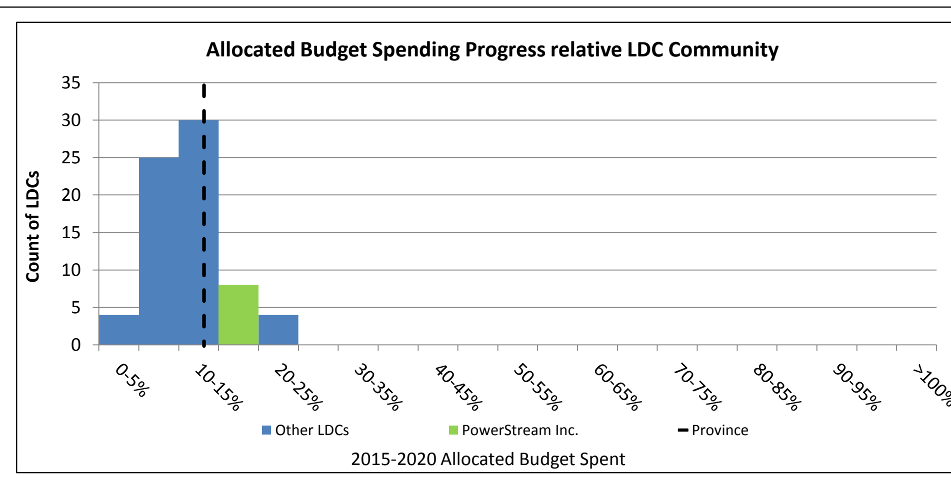












Final Verified 2016 Annual LDC CDM Program Results Report

LDC Rankings

#	LDC	Net Verified Annual Energy Savings Persisting to 2020: 2015 Verified Results Value (kWh)	2015 Verified Results LDC Ranking (#)	Verified 2015 Adjustment Results Value (kWh)	Verified Adjusted 2015 Results Value (kWh)	Verified Adjusted 2015 Results LDC Ranking (#)	2016 Verified Results Value (kWh)	2016 Verified Results LDC Ranking (#)	2015-2016 Verified Results Value (kWh)	2015-2016 Verified Results LDC Ranking (#)	Allocated Target Value (kWh)	Allocated Target LDC Ranking (#)	2015-2016 Progress versus Allocated Target Value (%)	2015-2016 Progress versus Allocated Target LDC Ranking (#)	2015-2020 LDC CDM Plan Forecast Value (kWh)	2015-2020 LDC CDM Plan Forecast LDC Ranking (#)	2015-2016 Progress versus 2015-2020 LDC CDM Plan Forecast Value (%)	2015-2016 Progress versus 2015-2020 LDC CDM Plan Forecast LDC Ranking (#)	2016 LDC CDM Plan Forecast Value (kWh)	2016 LDC CDM Plan Forecast LDC Ranking (#)	2016 Progress versus 2016 LDC CDM Plan Forecast Value (%)	2016 Progress versus 2016 LDC CDM Plan Forecast LDC Ranking (#)	2015-2016 LDC CDM Plan Forecast Value (kWh)	2015-2016 LDC CDM Plan Forecast LDC Ranking (#)	2015-2016 Progress versus 2015-2016 LDC CDM Plan Forecast Value (%)	2015-2016 Progress versus 2015-2016 LDC CDM Plan Forecast LDC Ranking (#)
1	Algoma Power Inc.	1,031,011	57	25,818	1,056,828	58	1,285,402	52	2,342,230	56	7,510,000	54	31	45	11,100,760	47	21	66	816,284	54	157	16	1,777,226	53	132	34
2	Atikokan Hydro Inc.	109,769	67	2,444	112,213	67	189,357	68	301,570	68	1,140,000	67	26	54	1,139,590	67	26	52	127,788	71	148	18	170,828	71	177	17
3	Attawapiskat Power Corporation	35,822	70	2,343	38,165	70	0	69	38,165	70	510,000	70	7	71	556,816	69	7	71	209,344	66	0	69	209,344	68	18	70
4	Bluewater Power Distribution Corporation	7,755,327	21	268,687	8,024,013	26	5,570,598	28	13,594,611	30	62,370,000	19	22	65	62,370,000	19	22	64	7,092,037	25	79	56	14,839,910	25	92	57
5	Brantford Power Inc.	7,457,011	22	1,458,523	8,915,534	25	10,499,455	19	19,414,989	21	54,320,000	22	36	33	54,880,608	23	35	36	9,918,198	18	106	39	17,760,851	22	109	46
6	Burlington Hydro Inc.	12,632,309	18	1,975,945	14,608,254	18	11,531,861	15	26,140,115	16	99,040,000	13	26	55	99,040,000	14	26	53	11,672,695	15	99	47	18,090,682	21	144	24
7	Canadian Niagara Power Inc.	3,502,396	37	5,579,808	9,082,204	23	5,553,280	29	14,635,484	27	28,480,000	32	51	12	28,104,418	31	52	15	4,745,580	30	117	29	11,046,585	27	132	33
8	Centre Wellington Hydro Ltd.	1,581,029	53	109,971	1,690,999	53	1,548,975	50	3,239,975	52	8,730,000	50	37	30	8,729,845	50	37	33	2,771,886	40	56	62	4,123,814	39	79	60
9	Chapleau Public Utilities Corporation	275,333	64	3,485	278,818	64	191,711	67	470,529	66	1,050,000	68	45	18	1,057,696	68	44	21	134,983	70	142	21	508,197	62	93	56
10	COLLUS PowerStream Corp.	1,637,947	51	385,929	2,023,876	49	2,194,349	44	4,218,225	47	16,860,000	39	25	58	16,860,000	38	25	57	2,047,097	42	107	38	3,784,720	41	111	43
11	Cooperative Hydro Embrun Inc.	120,443	66	19,234	139,677	66	730,806	57	870,483	62	1,790,000	65	49	15	1,790,697	65	49	18	241,547	65	303	2	320,602	66	272	9
12	E.L.K. Energy Inc.	1,662,553	49	583,829	2,246,382	47	1,963,393	48	4,209,775	48	16,200,000	41	26	56	16,203,264	40	26	54	1,785,578	45	110	36	3,064,492	45	137	29
13	Energy+ Inc.	17,245,241	13	60,025,983	77,271,224	5	14,252,795	12	91,524,019	7	100,950,000	12	91	4	106,219,451	11	86	4	10,054,813	17	142	22	67,208,866	8	136	30
14	Enersource Hydro Mississauga Inc.	59,582,917	5	15,701,481	75,284,398	6	80,992,918	4	156,277,316	4	483,270,000	4	32	42	483,273,204	4	32	42	79,419,033	3	102	42	149,356,740	4	105	50
15	Entegrus Powerlines Inc.	38,558,192	8	3,536,019	42,094,211	9	14,186,934	13	56,281,145	11	56,830,000	21	99	3	62,079,147	20	91	3	5,611,768	27	253	4	34,007,927	14	165	21
16	EnWin Utilities Ltd.	14,809,440	15	2,675,379	17,484,819	16	29,365,888	9	46,850,707	12	151,300,000	10	31	47	152,801,848	10	31	45	44,722,046	5	66	61	64,562,249	9	73	62
17	Erie Thames Powerlines Corporation	5,180,177	27	922,335	6,102,511	30	2,555,215	40	8,657,726	34	27,630,000	33	31	44	39,589,797	26	22	63	3,215,423	37	79	55	21,956,460	19	39	68
18	Espanola Regional Hydro Distribution Corporation	502,006	61	14,537	516,543	62	339,978	65	856,521	63	2,410,000	64	36	34	1,998,806	64	43	23	328,608	64	103	40	328,608	65	261	10
19	Essex Powerlines Corporation	3,819,710	36	1,720,380	5,540,090	33	7,059,017	26	12,599,107	31	31,430,000	30	40	24	31,430,000	28	40	29	7,103,736	24	99	46	9,728,188	29	130	35
20	Festival Hydro Inc.	4,822,853	30	2,088,958	6,911,811	27	9,417,074	21	16,328,885	26	34,650,000	28	47	17	29,884,429	30	55	10	4,336,821	31	217	7	4,336,821	36	377	5
21	Fort Albany Power Corporation	29,906	71	1,956	31,862	71	0	69	31,862	71	340,000	71	9	69	373,387	71	9	70	197,235	68	0	69	197,235	70	16	71
22	Fort Frances Power Corporation	254,688	65	11,215	265,903	65	553,935	60	819,838	64	4,000,000	61	20	67	3,687,415	61	22	62	348,835	63	159	15	486,914	64	168	19
23	Greater Sudbury Hydro Inc.	6,959,582	23	3,141,790	10,101,372	22	9,312,088	22	19,413,460	22	34,740,000	27	56	7	23,985,670	34	81	5	3,943,302	34	236	5	3,943,302	40	492	2
24	Grimsby Power Incorporated	2,804,724	40	319,119	3,123,843	40	2,159,053	45	5,282,896	43	10,850,000	48	49	14	10,863,961	48	49	17	1,870,647	44	115	33	3,670,614	42	144	25
25	Guelph Hydro Electric Systems Inc.	58,594,547	6	2,215,864	60,810,411	8	8,394,053	24	69,204,463	9	99,040,000	13	70	5	99,040,001	13	70	7	7,470,386	22	112	35	59,741,607	11	116	41
26	Halton Hills Hydro Inc.	5,500,566	25	212,955	5,713,521	31	4,755,591	32	10,469,112	33	30,940,000	31	34	38	30,962,677	29	34	39	3,268,861	36	145	20	6,234,990	34	168	20
27	Hearst Power Distribution Company Limited	1,510,384	54	985,005	2,495,390	44	2,417,972	42	4,913,361	44	3,180,000	63	155	1	3,183,595	62	154	1	369,657	62	654	1	1,033,780	59	475	3
28	Horizon Utilities Corporation	70,835,688	4	6,703,611	77,539,298	4	44,884,274	6	122,423,572	6	330,680,000	6	37	31	366,197,247	6	33	41	41,674,275	7	108	37	116,705,818	5	105	49
29	Hydro 2000 Inc.	80,683	68	3,633	84,316	68	257,750	66	342,066	67	1,360,000	66	25	57	1,360,459	66	25	56	165,677	69	156	17	215,261	67	159	22
30	Hydro Hawkesbury Inc.	1,162,440	56	26,255	1,188,695	57	1,339,759	51	2,528,454	54	7,920,000	53	32	43	7,920,346	53	32	43	1,335,307	50	100	44	2,406,871	49	105	48
31	Hydro One Brampton Networks Inc.	29,578,103	9	6,302,266	35,880,369	10	41,650,660	7	77,531,030	8	255,160,000	7	30	49	255,160,000	7	30	46	40,763,367	8	102	41	70,364,866	7	110	45
32	Hydro One Networks Inc.	220,487,100	1	89,902,682	310,389,782	1	208,374,078	2	518,763,860	2	1,220,690,000	2	42	19	1,263,550,435	2	41	26	257,427,028	2	81	54	477,719,756	1	109	47
33	Hydro Ottawa Limited	57,247,836	7	15,553,929	72,801,765	7	59,247,505	5	132,049,269	5	394,540,000	5	33	40	394,559,846	5	33	40	42,147,373	6	141	23	89,489,881	6	133	32
34	InnPower Corporation	1,850,172	47	132,220	1,982,392	50	2,561,285	39	4,543,677	46	13,010,000	44	35	35	13,009,980	43	35	37	3,158,377	38	81	53	4,728,558	35	96	54
35	Kashechewan Power Corporation	40,200	69	2,629	42,829	69	0	69	42,829	69	520,000	69	8	70	438,286	70	10	69	209,344	66	0	69	209,344	68	20	69
36	Kenora Hydro Electric Corporation Ltd.	1,606,080	52	65,793	1,671,873	54	552,901	61	2,224,774	57	5,270,000	57	42	21	5,269,561	56	42	24	1,403,058	48	39	65	1,596,071	56	139	28
37	Kingston Hydro Corporation	4,445,966	32	1,046,947	5,492,913	35	2,580,410	38	8,073,324	36	34,500,000	29	23	63	37,182,911	27	22	65	11,465,768	16	23	68	14,206,168	26	57	65
38	Kitchener-Wilmot Hydro Inc.	21,865,242	11	2,654,908	24,520,150	12	14,184,542	14	38,704,692	14	105,710,000	11	37	32	105,712,088	12	37	34	17,127,724	12	83	52	27,136,429	16	143	27
39	Lakefront Utilities Inc.	2,239,136	44	280,605	2,519,741	43	1,185,986	53	3,705,727	50	12,170,000	45	30	48	12,201,915	44	30	47	1,739,771	46	68	60	3,639,829	43	102	51
40	Lakeland Power Distribution Ltd.	4,432,710	33	708,780	5,141,489	37	2,495,021	41	7,636,510	37	15,770,000	42	48	16	15,832,919	41	48	20	1,345,374	49	185	9	4,319,290	37	177	16
41	London Hydro Inc.	28,534,591	10	3,454,236	31,988,827	11	31,824,871	8	63,813,698	10	196,660,000	8	32	41	219,747,453	8	29	50	34,869,274	9	91	49	63,862,340	10	100	53
42	Midland Power Utility Corporation	2,860,953	39	301,878	3,162,831	39	2,402,265	43	5,565,096	41	10,830,000	49	51	13	10,830,000	49	51	16	1,433,109	47	168	14	3,063,543	46	182	14
43	Milton Hydro Distribution Inc.	9,889,501	19	476,099	10,365,601	21	6,501,088	27	16,866,689	25	45,360,000	24	37	29	45,363,753	24	37	32	5,584,323	28	116	30	9,970,719	28	169	18
44	Newmarket-Tay Power Distribution Ltd.	8,218,024	20	840,996	9,059,020	24	4,962,518	31	14,021,538	28	36,240,000	26	39	25	26,923,645	32	52	14	4,271,910	32	116	32	4,271,910	38	328	7
45	Niagara Peninsula Energy Inc.	12,742,252	17	1,752,111	14,494,363	19	10,838,434	17	25,332,796	18	74,440,000	17	34	37	74,440,000	17	34	38	7,449,258	23	145	19	20,191,139	20	125	36
46	Niagara-on-the-Lake Hydro Inc.	2,598,018	42	369,192	2,967,210	41	3,401,852	36	6,369,062	39	11,680,000	46	55	8	11,877,636	46	54	13	3,546,990	35	96	48	6,289,627	33	101	52
47	North Bay Hydro Distribution Limited	4,245,690	35	12,427,153	16,672,842	17	4,001,370	34	20,674,212	20	20,260,000	37	102	2	17,933,641	37	115	2	2,300,259	41	174	12	2,300,259	50	899	1
48	Northern Ontario Wires Inc.	509,731	60	38,057	547,788	60	907,761	56	1,455,549	59	4,310,000	59	34	39	2,998,209	63	49	19	492,913	61	184	10	492,913	63	295	8
49	Oakville Hydro Electricity Distribution Inc.	21,252,248	12	2,499,447	23,751,695	13	15,431,935	11	39,183,630	13	92,390,000	15	42	20	93,974,490	15	42	25	13,265,566	14	116	31	34,517,814	13	114	42
50	Orangeville Hydro Limited	3,398,117	38	314,840	3,712,958	38	2,056,808	46	5,769,766	40	14,150,000	43	41	22	14,301,698	42	40	27	1,194,829	51	172	13	2,889,632	47	200	11
51	Orillia Power Distribution Corporation	1,662,040	50	246,213	1,908,253	52	2,008,907	47	3,917,160	49	16,580,000	40	24	62	16,653,694	39	24	60	5,922,408	26	34	66	7,529,238	32	52	66
52	Oshawa PUC Networks Inc.	5,046,074	28	1,182,326	6,228,399	29	11,449,535	16	17,677,934	23	73,010,000	18	24	61	73,010,000	18	24	59	8,484,484	20	135	24	24,199,815	18	73	61
53	Ottawa River Power Corporation	2,779,858	41	156,362	2,936,220	42	1,812,492	49	4,748,712	45	8,720,000	51	54	9	8,724,947	51	54	11	985,681	52	184	11	2,614,339	48	182	15
54	Peterborough Distribution Incorporated	4,979,980	29	554,811	5,534,790	34	5,186,524	30	10,721,314	32	37,880,000	25	28	52	42,122,834	25	25	55	20,077,835	10	26	67	25,666,491	17	42	67
55	PowerStream Inc.	76,511,169	3	20,976,284	97,487,452	3	103,018,833	3	200,506,286	3	535,440,000	3	37	27	535,440,000	3	37	31	76,738,762	4	134	25	165,941,199	3	121	38
56	PUC Distribution Inc.	4,538,096	31	659,247	5,197,342	36	8,793,170	23	13,990,513	29	26,410,000	34	53	11	18,988,655	36	74	6	3,121,781	39	282	3	3,121,781	44	448	4
57	Renfrew Hydro Inc.	351,383	63	32,771	384,155	63	418,059	64	802,214	65	4,170,000	60	19	68	4,169,705	59	19	68	595,808	58	70	58	946,461	60	85	59
58	Rideau St. Lawrence Distribution Inc.	1,353,836	55	95,782	1,449,618	56	570,963	59	2,020,581	58	5,020,000	58	40	23	5,020,495	57	40	28	561,831	59	102	43	1,627,920	55	124	37
59	Sioux Lookout Hydro Inc.	537,110	59	7,737	544,847	61	485,367	63	1,030,214	61	3,700,000	62	28	53	3,699,848	60	28	51	621,773	57	78	57	764,616	61	135	31
60	St. Thomas Energy Inc.	2,146,544	45	188,013	2,334,556	46	4,191,889	33	6,526,446	38	17,510,000	38	37	28	11,992,835	45	54	12	1,971,651	43	213	8	1,971,651	51	331	6
61	Thunder Bay Hydro Electricity Distribution Inc.	5,286,985	26	13,266,747	18,553,733	15	7,141,247	25	25,694,979	17	48,420,000	23	53	10	58,393,454	22	44	22	17,239,812	11	41	64	36,097,692	12	71	63
62	Tillsonburg Hydro Inc.	1,886,420	46	243,278	2,129,698	48	673,753	58	2,803,451	53	11,310,000	47	25	59	4,901,901	58	57	8	741,159	56	91	50	1,483,941	57	189	13
63	Toronto Hydro-Electric System Limited	197,146,346	2	78,444,901	275,591,247	2	269,366,448	1	544,957,695	1	1,576,050,000	1	35	36	1,437,213,978	1	38	30	270,786,926	1	99	45	467,933,206	2	116	40
64	Veridian Connections Inc.	16,332,332	14	2,693,631	19,025,963	14	18,086,912	10	37,112,875	15	152,970,000	9	24	60	152,970,000	9	24	58	14,873,397	13	122	28	31,199,796	15	119	39
65	Wasaga Distribution Inc.	2,385,191	43	26,401	2,411,591	45	1,165,103	54	3,576,694	51	6,320,000	55	57	6	6,319,847	54	57	9	530,215	60	220	6	1,837,059	52	195	12
66	Waterloo North Hydro Inc.	12,799,897	16	1,083,855	13,883,752	20	10,576,686	18	24,460,438	19	82,380,000	16	30	50	82,384,212	16	30	48	8,465,944	21	125	26	15,800,261	23	155	23
67	Welland Hydro-Electric System Corp.	1,729,306	48	230,560	1,959,866	51	3,416,423	35	5,376,290	42	25,500,000	35	21	66	25,500,101	33	21	67	3,976,815	33	86	51	8,694,159	31	62	64
68	Wellington North Power Inc.	709,927	58	86,269	796,196	59	522,470	62	1,318,666	60	5,890,000	56	22	64	5,897,926	55	22	61	757,400	55	69	59	1,467,327	58	90	58
69	West Coast Huron Energy Inc.	438,855	62	1,041,276	1,480,131	55	1,033,396	55	2,513,526	55	8,080,000	52	31	46	8,175,845	52	31	44	829,562	53	125	27	1,752,338	54	143	26
70	Westario Power Inc.	4,282,957	34	1,285,842	5,568,799	32	3,071,071	37	8,639,870	35	23,010,000	36	38	26	23,824,531	35	36	35	5,570,909	29	55	63	9,007,283	30	96	55
71	Whitby Hydro Electric Corporation	6,210,809	24	410,389	6,621,198	28	10,455,293	20	17,076,491	24	58,440,000	20	29	51	58,440,000	21	29	49	9,262,887	19	113	34	15,473,631	24	110	44
Total		1,117,489,826		372,776,418	1,490,266,244		1,154,154,798		2,644,421,042		6,999,990,000		38		6,961,838,409		38		1,160,312,103		99		2,298,209,799		115	

#	LDC	Total Spending: 2015 Verified Spending Value ($)	2015 Verified Spending LDC Ranking (#)	Verified 2015 Adjustment Spending Value ($)	Verified Adjusted 2015 Spending Value ($)	Verified Adjusted 2015 Spending LDC Ranking (#)	2016 Verified Spending Value ($)	2016 Verified Spending LDC Ranking (#)	2015-2016 Verified Spending Value ($)	2015-2016 Verified Spending LDC Ranking (#)	Allocated Budget Value ($)	Allocated Budget LDC Ranking (#)	2015-2016 Progress versus Allocated Budget Value (%)	2015-2016 Progress versus Allocated Budget LDC Ranking (#)	2015-2020 LDC CDM Plan Forecast Value ($)	2015-2020 LDC CDM Plan Forecast LDC Ranking (#)	2015-2016 Progress versus 2015-2020 LDC CDM Plan Forecast Value (%)	2015-2016 Progress versus 2015-2020 LDC CDM Plan Forecast LDC Ranking (#)	2016 LDC CDM Plan Forecast Value ($)	2016 LDC CDM Plan Forecast LDC Ranking (#)	2016 Progress versus 2016 LDC CDM Plan Forecast Value (%)	2016 Progress versus 2016 LDC CDM Plan Forecast LDC Ranking (#)	2015-2016 LDC CDM Plan Forecast Value ($)	2015-2016 LDC CDM Plan Forecast LDC Ranking (#)	2015-2016 Progress versus 2015-2016 LDC CDM Plan Forecast Value (%)	2015-2016 Progress versus 2015-2016 LDC CDM Plan Forecast LDC Ranking (#)
1	Algoma Power Inc.	39,320	22	59,951	99,271	20	344,836	47	444,108	42	2,107,963	53	21	3	3,449,717	45	13	24	683,154	43	50	51	737,814	43	60	37
2	Atikokan Hydro Inc.	0	30	0	0	43	50,265	66	50,265	66	311,330	67	16	9	374,405	70	13	19	56,766	71	89	8	56,772	71	89	10
3	Attawapiskat Power Corporation	0	30	0	0	43	0	69	0	69	148,832	70	0	69	1,846,142	54	0	69	386,748	52	0	69	386,748	52	0	69
4	Bluewater Power Distribution Corporation	5,119	29	0	5,119	41	1,340,938	26	1,346,056	27	15,838,687	20	8	56	15,838,687	20	8	54	2,579,261	19	52	48	2,584,380	21	52	50
5	Brantford Power Inc.	0	30	29,000	29,000	30	1,564,432	22	1,593,432	24	14,048,458	22	11	30	11,591,730	23	14	16	2,207,285	23	71	29	2,236,285	23	71	28
6	Burlington Hydro Inc.	118,667	17	193,116	311,783	12	2,472,234	12	2,784,017	13	25,825,521	13	11	37	25,890,159	12	11	38	3,893,532	15	63	35	4,877,008	12	57	43
7	Canadian Niagara Power Inc.	162,334	14	58,069	220,403	13	1,200,961	27	1,421,364	26	7,355,555	33	19	5	6,338,440	35	22	4	1,589,930	29	76	22	1,643,473	29	86	12
8	Centre Wellington Hydro Ltd.	0	30	0	0	43	276,194	49	276,194	50	2,252,724	51	12	26	2,252,724	51	12	29	651,826	44	42	59	651,826	44	42	59
9	Chapleau Public Utilities Corporation	0	30	3,354	3,354	42	19,890	68	23,244	68	298,764	68	8	60	298,764	71	8	59	57,618	69	35	64	57,618	69	40	62
10	COLLUS PowerStream Corp.	157,689	15	0	157,689	16	636,318	33	794,008	31	4,446,841	39	18	7	4,446,841	39	18	8	842,348	39	76	21	1,118,451	35	71	30
11	Cooperative Hydro Embrun Inc.	0	30	0	0	43	61,223	64	61,223	65	525,743	65	12	28	525,743	68	12	31	78,227	68	78	16	78,227	68	78	17
12	E.L.K. Energy Inc.	0	30	0	0	43	435,083	42	435,083	43	4,273,057	41	10	41	4,273,057	41	10	42	504,219	48	86	10	504,219	48	86	13
13	Energy+ Inc.	0	30	0	0	43	2,916,887	11	2,916,887	11	25,873,071	12	11	32	23,678,815	14	12	28	4,939,935	10	59	38	4,939,935	11	59	39
14	Enersource Hydro Mississauga Inc.	0	30	0	0	43	5,508,332	8	5,508,332	8	122,499,403	4	4	68	123,761,401	4	4	68	20,565,231	4	27	66	23,154,175	4	24	66
15	Entegrus Powerlines Inc.	374,365	8	60,099	434,464	8	2,370,550	14	2,805,014	12	14,695,867	21	19	6	13,843,474	21	20	6	2,447,799	20	97	5	3,048,339	19	92	6
16	EnWin Utilities Ltd.	0	30	111,618	111,618	19	2,430,728	13	2,542,346	15	38,421,929	10	7	64	38,421,929	10	7	64	11,447,244	8	21	67	11,447,244	8	22	67
17	Erie Thames Powerlines Corporation	23,149	25	19,384	42,533	26	561,528	39	604,060	37	7,104,954	34	9	55	7,020,999	33	9	52	1,352,450	30	42	60	1,524,690	30	40	63
18	Espanola Regional Hydro Distribution Corporation	5,306	28	0	5,306	40	57,969	65	63,275	63	685,489	64	9	48	759,788	67	8	57	141,751	63	41	61	141,751	64	45	58
19	Essex Powerlines Corporation	176,840	12	6,737	183,577	14	1,818,727	18	2,002,304	17	8,532,573	30	23	1	8,421,412	30	24	3	1,871,165	25	97	4	2,199,199	25	91	8
20	Festival Hydro Inc.	0	30	8,075	8,075	37	1,003,864	29	1,011,939	29	8,768,149	28	12	29	8,768,149	28	12	32	1,323,777	32	76	20	1,323,777	33	76	18
21	Fort Albany Power Corporation	0	30	0	0	43	0	69	0	69	98,990	71	0	69	1,682,107	58	0	69	345,251	55	0	69	345,251	55	0	69
22	Fort Frances Power Corporation	0	30	0	0	43	92,580	60	92,580	60	1,109,758	60	8	59	1,119,638	63	8	58	124,580	66	74	23	124,601	66	74	23
23	Greater Sudbury Hydro Inc.	112,497	18	0	112,497	18	1,425,683	24	1,538,180	25	9,672,498	26	16	10	9,117,459	27	17	10	1,701,015	28	84	12	1,701,015	28	90	9
24	Grimsby Power Incorporated	0	30	34,500	34,500	29	292,926	48	327,426	48	2,894,613	47	11	31	2,894,612	47	11	33	633,209	45	46	57	633,209	45	52	52
25	Guelph Hydro Electric Systems Inc.	278,441	10	103,065	381,506	11	1,377,942	25	1,759,447	20	24,920,625	14	7	62	23,290,402	15	8	60	3,782,778	16	36	63	4,255,743	16	41	61
26	Halton Hills Hydro Inc.	0	30	0	0	43	604,017	35	604,017	38	8,387,497	31	7	61	8,387,497	31	7	62	1,310,004	33	46	58	1,458,606	31	41	60
27	Hearst Power Distribution Company Limited	0	30	10,063	10,063	36	71,209	62	81,272	62	843,903	63	10	45	843,903	66	10	45	122,762	67	58	39	122,762	67	66	36
28	Horizon Utilities Corporation	2,679,921	3	194,944	2,874,865	3	10,061,393	5	12,936,258	5	84,830,304	6	15	12	84,830,304	6	15	13	14,826,453	6	68	32	17,664,321	5	73	25
29	Hydro 2000 Inc.	0	30	0	0	43	41,957	67	41,957	67	394,750	66	11	38	394,750	69	11	39	56,806	70	74	24	56,806	70	74	24
30	Hydro Hawkesbury Inc.	0	30	0	0	43	189,396	52	189,396	53	2,139,160	52	9	51	2,139,160	52	9	50	399,100	51	47	56	399,100	51	47	57
31	Hydro One Brampton Networks Inc.	363,847	9	139,709	503,556	7	7,314,450	7	7,818,006	7	66,798,531	7	12	27	66,798,530	7	12	30	14,629,427	7	50	52	14,994,829	7	52	49
32	Hydro One Networks Inc.	1,742,284	4	32,818	1,775,101	5	44,738,829	1	46,513,930	2	338,355,409	2	14	16	341,857,197	1	14	17	62,293,684	2	72	27	63,838,190	2	73	26
33	Hydro Ottawa Limited	389,296	7	0	389,296	10	13,469,631	4	13,858,927	4	105,242,155	5	13	19	105,242,156	5	13	21	17,214,251	5	78	17	17,591,400	6	79	16
34	InnPower Corporation	0	30	0	0	43	467,510	41	467,510	41	3,680,241	44	13	23	3,680,241	44	13	25	851,157	37	55	45	851,157	38	55	48
35	Kashechewan Power Corporation	0	30	0	0	43	0	69	0	69	155,966	69	0	69	1,741,263	56	0	69	358,436	54	0	69	358,436	54	0	69
36	Kenora Hydro Electric Corporation Ltd.	0	30	0	0	43	124,005	59	124,005	59	1,407,448	57	9	52	1,688,937	57	7	61	220,129	59	56	43	220,150	59	56	46
37	Kingston Hydro Corporation	0	30	17,728	17,728	34	566,812	38	584,540	39	8,674,286	29	7	63	8,631,873	29	7	63	1,716,251	27	33	65	1,716,251	27	34	65
38	Kitchener-Wilmot Hydro Inc.	0	30	0	0	43	1,754,249	20	1,754,249	21	27,710,719	11	6	65	27,710,719	11	6	65	4,634,072	14	38	62	4,634,072	15	38	64
39	Lakefront Utilities Inc.	0	30	0	0	43	265,025	50	265,025	51	3,077,834	45	9	53	3,077,834	46	9	51	511,743	46	52	49	511,744	46	52	51
40	Lakeland Power Distribution Ltd.	0	30	0	0	43	433,380	43	433,380	44	4,142,391	42	10	40	4,142,392	42	10	41	511,363	47	85	11	511,364	47	85	14
41	London Hydro Inc.	1,611,279	5	506,532	2,117,811	4	8,721,449	6	10,839,260	6	51,192,690	8	21	2	51,389,805	8	21	5	9,187,376	9	95	7	10,660,376	9	102	3
42	Midland Power Utility Corporation	0	30	0	0	43	345,045	46	345,045	47	2,739,690	49	13	24	2,739,690	48	13	26	432,693	49	80	14	432,694	49	80	15
43	Milton Hydro Distribution Inc.	0	30	41,699	41,699	27	1,563,222	23	1,604,921	23	11,911,927	24	13	17	11,908,123	22	13	18	2,051,810	24	76	18	2,205,823	24	73	27
44	Newmarket-Tay Power Distribution Ltd.	51,311	20	0	51,311	23	1,009,481	28	1,060,792	28	9,649,555	27	11	35	9,993,198	25	11	40	1,842,766	26	55	46	1,842,766	26	58	41
45	Niagara Peninsula Energy Inc.	0	30	40,000	40,000	28	2,317,811	15	2,357,811	16	19,056,865	18	12	25	19,056,865	18	12	27	2,378,879	22	97	3	2,378,879	22	99	4
46	Niagara-on-the-Lake Hydro Inc.	0	30	0	0	43	424,921	44	424,921	45	2,993,633	46	14	14	2,321,538	49	18	7	828,092	40	51	50	828,092	41	51	53
47	North Bay Hydro Distribution Limited	27,296	23	0	27,296	31	713,129	32	740,425	33	5,545,424	37	13	18	5,738,692	37	13	23	992,259	35	72	26	992,259	37	75	22
48	Northern Ontario Wires Inc.	6,212	27	0	6,212	39	156,126	56	162,339	56	1,174,934	59	14	15	1,139,682	62	14	15	212,627	61	73	25	212,627	61	76	19
49	Oakville Hydro Electricity Distribution Inc.	0	30	77,518	77,518	21	3,120,547	10	3,198,065	10	24,575,982	15	13	21	24,574,176	13	13	22	4,665,101	13	67	33	4,742,101	13	67	34
50	Orangeville Hydro Limited	0	30	0	0	43	229,432	51	229,432	52	3,705,603	43	6	66	3,705,604	43	6	66	412,100	50	56	44	412,100	50	56	47
51	Orillia Power Distribution Corporation	0	30	17,378	17,378	35	605,352	34	622,730	35	4,318,856	40	14	13	4,289,364	40	15	14	765,330	42	79	15	831,580	40	75	21
52	Oshawa PUC Networks Inc.	0	30	24,000	24,000	33	1,975,382	17	1,999,382	18	19,963,922	17	10	42	19,918,698	17	10	43	3,504,522	17	56	42	3,504,522	17	57	44
53	Ottawa River Power Corporation	0	30	0	0	43	353,106	45	353,106	46	2,282,373	50	15	11	2,282,373	50	15	12	366,122	53	96	6	366,122	53	96	5
54	Peterborough Distribution Incorporated	0	30	43,197	43,197	25	847,015	30	890,212	30	9,781,455	25	9	49	9,581,681	26	9	48	4,697,210	12	18	68	4,697,210	14	19	68
55	PowerStream Inc.	5,019,130	2	0	5,019,130	2	19,030,891	3	24,050,021	3	140,696,240	3	17	8	140,696,240	3	17	9	26,679,186	3	71	28	34,058,295	3	71	31
56	PUC Distribution Inc.	58,515	19	0	58,515	22	729,307	31	787,822	32	7,440,107	32	11	39	7,217,989	32	11	37	1,346,637	31	54	47	1,346,637	32	59	40
57	Renfrew Hydro Inc.	8,025	26	0	8,025	38	82,258	61	90,283	61	1,070,574	61	8	57	1,070,547	64	8	55	170,067	62	48	53	178,092	62	51	54
58	Rideau St. Lawrence Distribution Inc.	0	30	0	0	43	124,517	58	124,517	58	1,306,239	58	10	46	1,306,239	60	10	46	217,038	60	57	40	217,038	60	57	42
59	Sioux Lookout Hydro Inc.	0	30	0	0	43	61,605	63	61,605	64	1,016,095	62	6	67	1,219,314	61	5	67	128,495	64	48	55	128,512	65	48	56
60	St. Thomas Energy Inc.	25,415	24	0	25,415	32	579,723	36	605,138	36	4,643,532	38	13	20	4,558,730	38	13	20	850,507	38	68	31	850,507	39	71	29
61	Thunder Bay Hydro Electricity Distribution Inc.	485,575	6	48,109	533,684	6	2,110,681	16	2,644,365	14	12,927,445	23	20	4	10,763,047	24	25	2	2,413,463	21	87	9	2,885,599	20	92	7
62	Tillsonburg Hydro Inc.	122,716	16	0	122,716	17	158,627	55	281,343	49	2,881,461	48	10	43	939,108	65	30	1	126,641	65	125	2	167,576	63	168	2
63	Toronto Hydro-Electric System Limited	7,855,850	1	396,666	8,252,517	1	42,611,695	2	50,864,212	1	400,296,506	1	13	22	320,548,882	2	16	11	64,707,553	1	66	34	72,960,069	1	70	33
64	Veridian Connections Inc.	275,672	11	121,369	397,041	9	4,125,057	9	4,522,099	9	40,482,340	9	11	33	40,482,340	9	11	34	4,935,532	11	84	13	5,203,645	10	87	11
65	Wasaga Distribution Inc.	0	30	0	0	43	176,877	53	176,877	54	1,814,647	55	10	44	1,814,647	55	10	44	232,600	58	76	19	232,600	58	76	20
66	Waterloo North Hydro Inc.	0	30	0	0	43	1,816,067	19	1,816,067	19	21,192,868	16	9	54	21,192,868	16	9	53	3,185,447	18	57	41	3,185,447	18	57	45
67	Welland Hydro-Electric System Corp.	163,173	13	0	163,173	15	571,216	37	734,389	34	6,584,437	35	11	34	6,584,434	34	11	35	932,633	36	61	36	1,108,547	36	66	35
68	Wellington North Power Inc.	0	30	0	0	43	141,935	57	141,935	57	1,493,412	56	10	47	1,493,412	59	10	47	236,870	57	60	37	236,870	57	60	38
69	West Coast Huron Energy Inc.	0	30	0	0	43	169,605	54	169,605	55	2,012,404	54	8	58	2,012,404	53	8	56	240,844	56	70	30	240,844	56	70	32
70	Westario Power Inc.	0	30	0	0	43	553,926	40	553,926	40	6,101,269	36	9	50	6,101,269	36	9	49	1,152,483	34	48	54	1,152,485	34	48	55
71	Whitby Hydro Electric Corporation	50,281	21	0	50,281	24	1,690,118	21	1,740,399	22	15,860,460	19	11	36	15,860,460	19	11	36	811,391	41	208	1	811,391	42	214	1
Total		22,426,566		2,398,699	24,825,265		205,478,075		230,303,339		1,835,264,933		13		1,753,574,871		13		324,567,014		63		353,772,247		65	

Progress Report

For: PowerStream Inc.

Participation > | Net Incremental 2020 Annual Energy Savings (Progress towards 2015 - 2020 CFF LDC CDM Plan Target) > | Net Incremental 2020 Annual Peak Demand Savings > | Net Incremental First Year Energy Savings > | Net Incremental First Year Peak Demand Savings > | Net-to-Gross Adjustment - Energy > | Net-to-Gross Adjustment - Peak Demand > | Realization Rate - Energy > | Realization Rate - Peak Demand > | Gross Incremental First Year Energy Savings > | Gross Incremental First Year Peak Demand Savings >

Net Incremental First Year Energy Savings

#	Programs	Forecasted (kWh) 2015	2016	2017	2018	2019	2020	Total	Verified (kWh) 2015	2015 Adjustment in 2016	Adjusted 2015	2016	Total	Progress (%) Adjusted 2015	2016	Total
	2015-2020 Conservation First Framework Programs															
	Residential Province-Wide Programs															
1	Save on Energy Coupon Program	5,088,241	10,176,482	0	0	0	0	15,264,723	6,484,457	810,288	7,294,745	32,980,841	40,275,586	143%	324%	264%
2	Save on Energy Heating & Cooling Program	1,067,000	3,441,914	3,303,854	3,204,776	3,105,704	3,006,598	17,129,846	3,220,099	506,403	3,726,502	6,696,541	10,423,043	349%	195%	231%
3	Save on Energy New Construction Program	0	0	0	0	0	0	0	0	992	992	330,563	331,555			
4	Save on Energy Home Assistance Program	0	81,032	53,407	53,407	51,566	51,566	290,978	0	0	0	0	0		0%	0%
	Sub-total: Residential Province-Wide Programs	6,155,241	13,699,428	3,357,261	3,258,183	3,157,270	3,058,164	32,685,547	9,704,556	1,317,683	11,022,239	40,007,945	51,030,184	179%	292%	257%
	Business Province-Wide Programs															
5	Save on Energy Audit Funding Program	130,547	1,501,292	1,501,292	1,501,292	1,501,292	1,501,292	7,637,007	0	311,335	311,335	170,854	482,189	238%	11%	30%
6	Save on Energy Retrofit Program	6,616,219	46,919,168	51,046,423	55,619,483	55,315,529	56,881,426	272,398,248	4,388,100	12,562,665	16,950,765	60,465,338	77,416,103	256%	129%	145%
7	Save on Energy Small Business Lighting Program	0	12,885,105	12,885,105	0	0	0	25,770,210	0	0	0	60,829	60,829		0%	0%
8	Save on Energy High Performance New Construction Program	0	342,000	342,000	342,000	5,622,718	342,000	6,990,718	0	0	0	1,646,039	1,646,039		481%	481%
9	Save on Energy Existing Building Commissioning Program	0	0	0	0	0	0	0	0	0	0	0	0			
10	Save on Energy Process & Systems Upgrades Program	0	0	0	0	0	0	0	0	0	0	0	0			
11	Save on Energy Energy Manager Program	0	810,646	810,646	810,646	810,646	810,646	4,053,230	0	0	0	1,619,649	1,619,649		200%	200%
12	Save on Energy Monitoring & Targeting Program	0	0	0	0	0	0	0	0	0	0	0	0			
13	Save on Energy Retrofit Program - P4P	0	0	0	0	0	0	0	0	0	0	0	0			
14	Save on Energy Process & Systems Upgrades Program - P4P	0	0	0	0	0	0	0	0	0	0	0	0			
	Sub-total: Business Province-Wide Programs	6,746,766	62,458,211	66,585,466	58,273,421	63,250,185	59,535,364	316,849,413	4,388,100	12,874,000	17,262,100	63,962,709	81,224,809	256%	102%	117%
	Local & Regional Programs															
15	Adaptive Thermostat Local Program	0	0	0	0	0	0	0	0	0	0	0	0			
16	Business Refrigeration Incentives Local Program	0	2,082,415	4,818,611	0	0	0	6,901,026	0	0	0	1,013,502	1,013,502		49%	49%
17	Conservation on the Coast Home Assistance Local Program	0	0	0	0	0	0	0	0	0	0	0	0			
18	Conservation on the Coast Small Business Lighting Local Program	0	0	0	0	0	0	0	0	0	0	0	0			
19	First Nations Conservation Local Program	0	0	0	0	0	0	0	0	0	0	0	0			
20	High Efficiency Agriculturual Pumping Local Program	0	0	0	0	0	0	0	0	0	0	0	0			
21	Instant Savings Local Program	0	0	0	0	0	0	0	0	0	0	0	0			
22	OPsaver Local Program	0	0	0	0	0	0	0	0	0	0	0	0			
23	PUMPsaver Local Program	0	0	0	0	0	0	0	0	0	0	0	0			
24	Social Benchmarking Local Program	0	11,206,192	9,220,993	3,309,269	2,960,177	4,863,372	31,560,003	0	0	0	0	0		0%	0%
25	THESL Swimming Pool Efficiency Local Program	0	0	0	0	0	0	0	0	0	0	0	0			
	Sub-total: Local & Regional Programs	0	13,288,607	14,039,604	3,309,269	2,960,177	4,863,372	38,461,029	0	0	0	1,013,502	1,013,502		8%	8%
	LDC Innovation Fund Pilot Programs															
26	Air Source Heat Pump for Residential Water Heating Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
27	Building Optimization Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
28	Conservation Voltage Regulation Leveraging AMI Data Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
29	Demand Control Kitchen Ventilation Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
30	Direct Install - Hydronic Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
31	Direct Install - RTU Controls Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
32	Electronically Commutated Furnace Motor Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
33	Electronics Takeback Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
34	Home Energy Assessment and Retrofit Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
35	HONI HP Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
36	P4P for Class B Office Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
37	Performance Based Conservation Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
38	Re-Invest Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
39	Residential Direct Install Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
40	Residential Direct Mail Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
41	Residential Ductless Heat Pump Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
42	Residential Install Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
43	Social Benchmarking Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
44	Solar Powered Attic Ventilation Pilot Program	0	0	0	2,347,680	2,347,680	2,347,680	7,043,040	0	0	0	0	0			
45	Truckload Event Pilot Program	0	0	0	0	0	0	0	0	0	0	202,605	202,605			
	Sub-total: LDC Innovation Fund Pilot Programs	0	0	0	2,347,680	2,347,680	2,347,680	7,043,040	0	0	0	202,605	202,605			
	Program Enabled Savings															
46	Save on Energy Retrofit Program Enabled Savings	-	-	-	-	-	-	-	-	-	-	-	-			
47	Save on Energy High Performance New Construction Program Enabled Savi	-	-	-	-	-	-	-	-	-	-	-	-			
48	Save on Energy Process & Systems Upgrades Program Enabled Savings	-	-	-	-	-	-	-	-	-	-	-	-			
	Sub-total: Program Enabled Savings	-	-	-	-	-	-	-	-	-	-	-	-			
	Other															
49	Proposed Program or Pilot	0	0	20,595,482	23,161,034	21,103,843	21,309,389	86,169,748	-	-	-	-	-			
50	Unassigned Target	0	0	0	3,746,920	3,746,920	3,746,920	11,240,760	-	-	-	-	-			
	Sub-total: Other	0	0	20,595,482	26,907,954	24,850,763	25,056,309	97,410,508	-	-	-	-	-			
	Sub-total: 2015-2020 Conservation First Framework	12,902,007	89,446,246	104,577,813	94,096,507	96,566,075	94,860,889	492,449,537	14,092,656	14,191,683	28,284,339	105,186,761	133,471,100	219%	118%	130%
	Conservation Fund															
51	EnerNOC Conservation Fund Pilot Program	0	0	0	0	0	0	0	130,073	0	130,073	0	130,073			
52	Home Depot Home Appliance Market Uplift Conservation Fund Pilot Progra	0	0	0	0	0	0	0	0	0	0	6,077	6,077			
53	Loblaw P4P Conservation Fund Pilot Program	0	0	0	0	0	0	0	901,493	0	901,493	0	901,493			
54	Ontario Clean Water Agency P4P Conservation Fund Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
55	Social Benchmarking Conservation Fund Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
56	Strategic Energy Group Conservation Fund Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
	Sub-total: Conservation Fund	0	0	0	0	0	0	0	1,031,566	0	1,031,566	6,077	1,037,643			
	2011-2014+2015 Extension Legacy Framework Programs															
	Residential Program															
57	Appliance Retirement Initiative	93,077	-	-	-	-	-	93,077	155,424	0	155,424	-	155,424	167%		167%
58	Coupon Initiative	1,008,891	-	-	-	-	-	1,008,891	1,027,535	46,083	1,073,618	-	1,073,618	106%		106%
59	Bi-Annual Retailer Event Initiative	4,079,350	-	-	-	-	-	4,079,350	2,194,924	0	2,194,924	-	2,194,924	54%		54%
60	HVAC Incentives Initiative	1,141,255	-	-	-	-	-	1,141,255	3,175,791	43,375	3,219,166	-	3,219,166	282%		282%
61	Residential New Construction and Major Renovation Initiative	0	-	-	-	-	-	0	58,971	805,682	864,653	-	864,653			
	Sub-total: Residential Program	6,322,573	-	-	-	-	-	6,322,573	6,612,645	895,140	7,507,785	-	7,507,785	119%		119%
	Commercial & Institutional Program															
62	Energy Audit Initiative	1,240,198	-	-	-	-	-	1,240,198	875,115	1,926,895	2,802,010	-	2,802,010	226%		226%
63	Efficiency: Equipment Replacement Incentive Initiative	66,030,288	-	-	-	-	-	66,030,288	51,722,543	2,316,888	54,039,431	-	54,039,431	82%		82%
64	Direct Install Lighting and Water Heating Initiative	2,842,576	-	-	-	-	-	2,842,576	2,024,454	0	2,024,454	-	2,024,454	71%		71%
65	New Construction and Major Renovation Initiative	717,504	-	-	-	-	-	717,504	1,437,827	903,373	2,341,200	-	2,341,200	326%		326%
66	Existing Building Commissioning Incentive Initiative	0	-	-	-	-	-	0	0	0	0	-	0			
	Sub-total: Commercial & Institutional Program	70,830,566	-	-	-	-	-	70,830,566	56,059,939	5,147,156	61,207,095	-	61,207,095	86%		86%
	Industrial Program															
67	Process and Systems Upgrades Initiatives - Project Incentive Initiative	0	-	-	-	-	-	0	0	0	0	-	0			
68	Process and Systems Upgrades Initiatives - Energy Manager Initiative	1,859,000	-	-	-	-	-	1,859,000	1,293,617	0	1,293,617	-	1,293,617	70%		70%
69	Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiat	0	-	-	-	-	-	0	0	0	0	-	0			
	Sub-total: Industrial Program	1,859,000	-	-	-	-	-	1,859,000	1,293,617	0	1,293,617	-	1,293,617	70%		70%
	Low Income Program															
70	Low Income Initiative	170,111	-	-	-	-	-	170,111	147,287	0	147,287	-	147,287	87%		87%
	Sub-total: Low-Income Program	170,111	-	-	-	-	-	170,111	147,287	0	147,287	-	147,287	87%		87%
	Other															
71	Aboriginal Conservation Program	0	-	-	-	-	-	0	0	0	0	-	0			
72	Program Enabled Savings	0	-	-	-	-	-	0	235,240	0	235,240	-	235,240			
	Sub-total: Other	0	-	-	-	-	-	0	235,240	0	235,240	-	235,240			
	Sub-total: 2011-2014+2015 Extension Legacy Framework	79,182,250	-	-	-	-	-	79,182,250	64,348,728	6,042,296	70,391,024	-	70,391,024	89%		89%
	Total	92,084,257	89,446,246	104,577,813	94,096,507	96,566,075	94,860,889	571,631,787	79,472,950	20,233,979	99,706,929	105,192,838	204,899,767	108%	118%	113%

Net Incremental First Year Peak Demand Savings

#	Programs	Forecasted (kW) 2015	2016	2017	2018	2019	2020	Total	Verified (kW) 2015	2015 Adjustment in 2016	Adjusted 2015	2016	Total	Progress (%) Adjusted 2015	2016	Total
	2015-2020 Conservation First Framework Programs															
	Residential Province-Wide Programs															
1	Save on Energy Coupon Program	342	684	0	0	0	0	1,026	424	59	483	2,147	2,630	141%	314%	256%
2	Save on Energy Heating & Cooling Program	872	1,063	985	955	926	896	5,697	1,696	258	1,954	1,995	3,949	224%	188%	204%
3	Save on Energy New Construction Program	0	0	0	0	0	0	0	0	0	0	104	104			
4	Save on Energy Home Assistance Program	0	14	9	9	9	9	50	0	0	0	0	0		0%	0%
	Sub-total: Residential Province-Wide Programs	1,214	1,761	994	964	935	905	6,773	2,120	317	2,437	4,246	6,683	201%	241%	225%
	Business Province-Wide Programs															
5	Save on Energy Audit Funding Program	27	303	303	303	303	303	1,542	0	66	66	22	88	244%	7%	27%
6	Save on Energy Retrofit Program	1,214	7,491	7,968	8,410	8,747	8,946	42,776	592	1,734	2,326	9,760	12,086	192%	130%	139%
7	Save on Energy Small Business Lighting Program	0	3,215	3,215	0	0	0	6,430	0	0	0	15	15		0%	0%
8	Save on Energy High Performance New Construction Program	0	109	109	109	397	109	833	0	0	0	397	397		364%	364%
9	Save on Energy Existing Building Commissioning Program	0	0	0	0	0	0	0	0	0	0	0	0			
10	Save on Energy Process & Systems Upgrades Program	0	0	0	0	0	0	0	0	0	0	0	0			
11	Save on Energy Energy Manager Program	0	106	106	106	106	106	530	0	0	0	145	145		137%	137%
12	Save on Energy Monitoring & Targeting Program	0	0	0	0	0	0	0	0	0	0	0	0			
13	Save on Energy Retrofit Program - P4P	0	0	0	0	0	0	0	0	0	0	0	0			
14	Save on Energy Process & Systems Upgrades Program - P4P	0	0	0	0	0	0	0	0	0	0	0	0			
	Sub-total: Business Province-Wide Programs	1,241	11,224	11,701	8,928	9,553	9,464	52,111	592	1,800	2,392	10,339	12,731	193%	92%	102%
	Local & Regional Programs															
15	Adaptive Thermostat Local Program	0	0	0	0	0	0	0	0	0	0	0	0			
16	Business Refrigeration Incentives Local Program	0	284	658	0	0	0	942	0	0	0	137	137		48%	48%
17	Conservation on the Coast Home Assistance Local Program	0	0	0	0	0	0	0	0	0	0	0	0			
18	Conservation on the Coast Small Business Lighting Local Program	0	0	0	0	0	0	0	0	0	0	0	0			
19	First Nations Conservation Local Program	0	0	0	0	0	0	0	0	0	0	0	0			
20	High Efficiency Agriculturual Pumping Local Program	0	0	0	0	0	0	0	0	0	0	0	0			
21	Instant Savings Local Program	0	0	0	0	0	0	0	0	0	0	0	0			
22	OPsaver Local Program	0	0	0	0	0	0	0	0	0	0	0	0			
23	PUMPsaver Local Program	0	0	0	0	0	0	0	0	0	0	0	0			
24	Social Benchmarking Local Program	0	2,372	1,896	647	580	963	6,458	0	0	0	0	0		0%	0%
25	THESL Swimming Pool Efficiency Local Program	0	0	0	0	0	0	0	0	0	0	0	0			
	Sub-total: Local & Regional Programs	0	2,656	2,554	647	580	963	7,400	0	0	0	137	137		5%	5%
	LDC Innovation Fund Pilot Programs															
26	Air Source Heat Pump for Residential Water Heating Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
27	Building Optimization Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
28	Conservation Voltage Regulation Leveraging AMI Data Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
29	Demand Control Kitchen Ventilation Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
30	Direct Install - Hydronic Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
31	Direct Install - RTU Controls Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
32	Electronically Commutated Furnace Motor Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
33	Electronics Takeback Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
34	Home Energy Assessment and Retrofit Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
35	HONI HP Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
36	P4P for Class B Office Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
37	Performance Based Conservation Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
38	Re-Invest Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
39	Residential Direct Install Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
40	Residential Direct Mail Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
41	Residential Ductless Heat Pump Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
42	Residential Install Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
43	Social Benchmarking Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
44	Solar Powered Attic Ventilation Pilot Program	0	0	0	268	268	268	804	0	0	0	0	0			
45	Truckload Event Pilot Program	0	0	0	0	0	0	0	0	0	0	13	13			
	Sub-total: LDC Innovation Fund Pilot Programs	0	0	0	268	268	268	804	0	0	0	13	13			
	Program Enabled Savings															
46	Save on Energy Retrofit Program Enabled Savings	-	-	-	-	-	-	-	-	-	-	-	-			
47	Save on Energy High Performance New Construction Program Enabled Savi	-	-	-	-	-	-	-	-	-	-	-	-			
48	Save on Energy Process & Systems Upgrades Program Enabled Savings	-	-	-	-	-	-	-	-	-	-	-	-			
	Sub-total: Program Enabled Savings	-	-	-	-	-	-	-	-	-	-	-	-			
	Other															
49	Proposed Program or Pilot	0	0	3,895	5,228	6,257	7,433	22,813	-	-	-	-	-			
50	Unassigned Target	0	0	0	452	452	452	1,356	-	-	-	-	-			
	Sub-total: Other	0	0	3,895	5,680	6,709	7,885	24,169	-	-	-	-	-			
	Sub-total: 2015-2020 Conservation First Framework	2,455	15,641	19,144	16,487	18,045	19,485	91,257	2,712	2,117	4,829	14,735	19,564	197%	94%	108%
	Conservation Fund															
51	EnerNOC Conservation Fund Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
52	Home Depot Home Appliance Market Uplift Conservation Fund Pilot Progra	0	0	0	0	0	0	0	0	0	0	1	1			
53	Loblaw P4P Conservation Fund Pilot Program	0	0	0	0	0	0	0	131	0	131	0	131			
54	Ontario Clean Water Agency P4P Conservation Fund Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
55	Social Benchmarking Conservation Fund Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
56	Strategic Energy Group Conservation Fund Pilot Program	0	0	0	0	0	0	0	0	0	0	0	0			
	Sub-total: Conservation Fund	0	0	0	0	0	0	0	131	0	131	1	132			
	2011-2014+2015 Extension Legacy Framework Programs															
	Residential Program															
57	Appliance Retirement Initiative	16	-	-	-	-	-	16	23	0	23	-	23	144%		144%
58	Coupon Initiative	75	-	-	-	-	-	75	69	2	71	-	71	95%		95%
59	Bi-Annual Retailer Event Initiative	267	-	-	-	-	-	267	163	0	163	-	163	61%		61%
60	HVAC Incentives Initiative	933	-	-	-	-	-	933	1,685	22	1,707	-	1,707	183%		183%
61	Residential New Construction and Major Renovation Initiative	0	-	-	-	-	-	0	21	42	63	-	63			
	Sub-total: Residential Program	1,291	-	-	-	-	-	1,291	1,961	66	2,027	-	2,027	157%		157%
	Commercial & Institutional Program															
62	Energy Audit Initiative	254	-	-	-	-	-	254	187	411	598	-	598	235%		235%
63	Efficiency: Equipment Replacement Incentive Initiative	8,711	-	-	-	-	-	8,711	6,257	399	6,656	-	6,656	76%		76%
64	Direct Install Lighting and Water Heating Initiative	404	-	-	-	-	-	404	487	0	487	-	487	121%		121%
65	New Construction and Major Renovation Initiative	133	-	-	-	-	-	133	316	186	502	-	502	377%		377%
66	Existing Building Commissioning Incentive Initiative	0	-	-	-	-	-	0	0	0	0	-	0			
	Sub-total: Commercial & Institutional Program	9,502	-	-	-	-	-	9,502	7,247	996	8,243	-	8,243	87%		87%
	Industrial Program															
67	Process and Systems Upgrades Initiatives - Project Incentive Initiative	0	-	-	-	-	-	0	0	0	0	-	0			
68	Process and Systems Upgrades Initiatives - Energy Manager Initiative	235	-	-	-	-	-	235	274	0	274	-	274	117%		117%
69	Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiat	0	-	-	-	-	-	0	0	0	0	-	0			
	Sub-total: Industrial Program	235	-	-	-	-	-	235	274	0	274	-	274	117%		117%
	Low Income Program															
70	Low Income Initiative	12	-	-	-	-	-	12	12	0	12	-	12	100%		100%
	Sub-total: Low-Income Program	12	-	-	-	-	-	12	12	0	12	-	12	100%		100%
	Other															
71	Aboriginal Conservation Program	0	-	-	-	-	-	0	0	0	0	-	0			
72	Program Enabled Savings	0	-	-	-	-	-	0	27	0	27	-	27			
	Sub-total: Other	0	-	-	-	-	-	0	27	0	27	-	27			
	Sub-total: 2011-2014+2015 Extension Legacy Framework	11,040	-	-	-	-	-	11,040	9,521	1,062	10,583	-	10,583	96%		96%
	Total	13,495	15,641	19,144	16,487	18,045	19,485	102,297	12,364	3,179	15,543	14,736	30,279	115%	94%	104%

	Savings Group >
	Participant Incentive Spending >
	LDC Administrative Expense Spending >
	Value Added Services Provider Administrative Expense Spending >
	Total Administrative Expense Spending >
	Total 2015-2020 CFF LDC CDM Plan Budget Spending >
	Spending Group >
	Total Resource Cost - Cost Effectiveness Test - Gross Benefit >
	Total Resource Cost - Cost Effectiveness Test - Gross Cost >
	Total Resource Cost - Cost Effectiveness Test - Net Benefit >
	Total Resource Cost - Cost Effectiveness Test - Net Benefit Ratio >
	Program Administrator Cost - Cost Effectiveness Test - Gross Benefit >
	Program Administrator Cost - Cost Effectiveness Test - Gross Cost >
	Program Administrator Cost - Cost Effectiveness Test - Net Benefit >
	Program Administrator Cost - Cost Effectiveness Test - Net Benefit Ratio >
	Levelized Unit Energy Cost - Cost Effectiveness Test - Benefit >
	Levelized Unit Energy Cost - Cost Effectiveness Test - Cost >
	Levelized Unit Energy Cost - Cost Effectiveness Test >
	Cost Effectiveness Tests Group >

Progress Report

For: Province Wide

#	Programs	Participation >	Net Incremental 2020 Annual Energy Savings (Progress towards 2015 - 2020 CFF LDC CDM Plan Target) >	Net Incremental 2020 Annual Peak Demand Savings >	Net Incremental First Year Energy Savings >	Net Incremental First Year Peak Demand Savings >	Net-to-Gross Adjustment - Energy >	Net-to-Gross Adjustment - Peak Demand >	Realization Rate - Energy >	Realization Rate - Peak Demand >	Gross Incremental First Year Energy Savings >	Gross Incremental First Year Peak Demand Savings >	Savings Group >	Participant Incentive Spending >	LDC Administrative Expense Spending >	Value Added Services Provider Administrative Expense Spending >	Total Administrative Expense Spending >	Total 2015-2020 CFF LDC CDM Plan Budget Spending >	Spending Group >	Total Resource Cost - Cost Effectiveness Test - Gross Benefit >	Total Resource Cost - Cost Effectiveness Test - Gross Cost >	Total Resource Cost - Cost Effectiveness Test - Net Benefit >	Total Resource Cost - Cost Effectiveness Test - Net Benefit Ratio >	Program Administrator Cost - Cost Effectiveness Test - Gross Benefit >	Program Administrator Cost - Cost Effectiveness Test - Gross Cost >	Program Administrator Cost - Cost Effectiveness Test - Net Benefit >	Program Administrator Cost - Cost Effectiveness Test - Net Benefit Ratio >	Levelized Unit Energy Cost - Cost Effectiveness Test - Benefit >	Levelized Unit Energy Cost - Cost Effectiveness Test - Cost >	Levelized Unit Energy Cost - Cost Effectiveness Test >	Cost Effectiveness Tests Group >
	2015-2020 Conservation First Framework Programs																														
	Residential Province-Wide Programs																														
1	Save on Energy Coupon Program																														
2	Save on Energy Heating & Cooling Program																														
3	Save on Energy New Construction Program																														
4	Save on Energy Home Assistance Program																														
	Sub-total: Residential Province-Wide Programs																														
	Business Province-Wide Programs																														
5	Save on Energy Audit Funding Program																														
6	Save on Energy Retrofit Program																														
7	Save on Energy Small Business Lighting Program																														
8	Save on Energy High Performance New Construction Program																														
9	Save on Energy Existing Building Commissioning Program																														
10	Save on Energy Process & Systems Upgrades Program																														
11	Save on Energy Energy Manager Program																														
12	Save on Energy Monitoring & Targeting Program																														
13	Save on Energy Retrofit Program - P4P																														
14	Save on Energy Process & Systems Upgrades Program - P4P																														
	Sub-total: Business Province-Wide Programs																														
	Local & Regional Programs																														
15	Adaptive Thermostat Local Program																														
16	Business Refrigeration Incentives Local Program																														
17	Conservation on the Coast Home Assistance Local Program																														
18	Conservation on the Coast Small Business Lighting Local Program																														
19	First Nations Conservation Local Program																														
20	High Efficiency Agricultural Pumping Local Program																														
21	Instant Savings Local Program																														
22	OPsaver Local Program																														
23	PUMPsaver Local Program																														
24	Social Benchmarking Local Program																														
25	THESL Swimming Pool Efficiency Local Program																														
	Sub-total: Local & Regional Programs																														
	LDC Innovation Fund Pilot Programs																														
26	Air Source Heat Pump for Residential Water Heating Pilot Program																														
27	Building Optimization Pilot Program																														
28	Conservation Voltage Regulation Leveraging AMI Data Pilot Program																														
29	Demand Control Kitchen Ventilation Pilot Program																														
30	Direct Install - Hydronic Pilot Program																														
31	Direct Install - RTU Controls Pilot Program																														
32	Electronically Commutated Furnace Motor Pilot Program																														
33	Electronics Takeback Pilot Program																														
34	Home Energy Assessment and Retrofit Pilot Program																														
35	HONI HP Pilot Program																														
36	P4P for Class B Office Pilot Program																														
37	Performance Based Conservation Pilot Program																														
38	Re-Invest Pilot Program																														
39	Residential Direct Install Pilot Program																														
40	Residential Direct Mail Pilot Program																														
41	Residential Ductless Heat Pump Pilot Program																														
42	Residential Install Pilot Program																														
43	Social Benchmarking Pilot Program																														
44	Solar Powered Attic Ventilation Pilot Program																														
45	Truckload Event Pilot Program																														
	Sub-total: LDC Innovation Fund Pilot Programs																														
	Program Enabled Savings																														
46	Save on Energy Retrofit Program Enabled Savings																														
47	Save on Energy High Performance New Construction Program Enabled Savi																														
48	Save on Energy Process & Systems Upgrades Program Enabled Savings																														
	Sub-total: Program Enabled Savings																														
	Other																														
49	Proposed Program or Pilot																														
50	Unassigned Target																														
	Sub-total: Other																														
	Sub-total: 2015-2020 Conservation First Framework																														
	Conservation Fund																														
51	EnerNOC Conservation Fund Pilot Program																														
52	Home Depot Home Appliance Market Uplift Conservation Fund Pilot Progra																														
53	Loblaw P4P Conservation Fund Pilot Program																														
54	Ontario Clean Water Agency P4P Conservation Fund Pilot Program																														
55	Social Benchmarking Conservation Fund Pilot Program																														
56	Strategic Energy Group Conservation Fund Pilot Program																														
	Sub-total: Conservation Fund																														
	2011-2014+2015 Extension Legacy Framework Programs																														
	Residential Program																														
57	Appliance Retirement Initiative																														
58	Coupon Initiative																														
59	Bi-Annual Retailer Event Initiative																														
60	HVAC Incentives Initiative																														
61	Residential New Construction and Major Renovation Initiative																														
	Sub-total: Residential Program																														
	Commercial & Institutional Program																														
62	Energy Audit Initiative																														
63	Efficiency: Equipment Replacement Incentive Initiative																														
64	Direct Install Lighting and Water Heating Initiative																														
65	New Construction and Major Renovation Initiative																														
66	Existing Building Commissioning Incentive Initiative																														
	Sub-total: Commercial & Institutional Program																														
	Industrial Program																														
67	Process and Systems Upgrades Initiatives - Project Incentive Initiative																														
68	Process and Systems Upgrades Initiatives - Energy Manager Initiative																														
69	Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiat																														
	Sub-total: Industrial Program																														
	Low Income Program																														
70	Low Income Initiative																														
	Sub-total: Low-Income Program																														
	Other																														
71	Aboriginal Conservation Program																														
72	Program Enabled Savings																														
	Sub-total: Other																														
	Sub-total: 2011-2014+2015 Extension Legacy Framework																														
	Total																														

Savings Persistence Report

For: PowerStream Inc.

Gross Verified Energy Savings >
Gross Verified Peak Demand Savings >
Gross Verified Savings >

Net Verified Annual Energy Savings (kWh)

#	Program / Initiative Name	Implementation Year	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
2015																												
1	Save on Energy Coupon Program	2015	6,484,457	6,429,030	6,429,030	6,429,030	6,429,030	6,429,030	6,429,030	6,424,967	6,424,967	6,424,967	5,994,848	5,961,614	5,961,614	5,839,430	5,839,430	5,826,645	1,606,139	1,606,139	1,606,139	1,606,139	0	0	0	0	0	0
2	Save on Energy Heating & Cooling Program	2015	3,220,099	3,220,099	3,220,099	3,220,099	3,220,099	3,220,099	3,220,099	3,220,099	3,220,099	3,220,099	3,220,099	3,220,099	3,220,099	3,220,099	3,220,099	3,220,099	3,220,099	3,220,099	3,068,338	0	0	0	0	0	0	0
3	Save on Energy New Construction Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Save on Energy Home Assistance Program	2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Save on Energy Audit Funding Program	2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Save on Energy Retrofit Program	2015	4,388,100	4,388,100	4,353,851	4,353,851	4,353,851	4,353,851	4,182,174	4,182,174	4,142,538	3,581,795	2,225,182	2,217,083	603,928	603,928	603,928	460,858	175,878	175,878	175,878	175,878	0	0	0	0	0	0
7	Save on Energy Small Business Lighting Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Save on Energy High Performance New Construction Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Save on Energy Existing Building Commissioning Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Save on Energy Process & Systems Upgrades Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Save on Energy Energy Manager Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Save on Energy Monitoring & Targeting Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Save on Energy Retrofit Program - P4P	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Save on Energy Process & Systems Upgrades Program - P4P	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Adaptive Thermostat Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Business Refrigeration Incentives Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Conservation on the Coast Home Assistance Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Conservation on the Coast Small Business Lighting Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	First Nations Conservation Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	High Efficiency Agriculturual Pumping Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Instant Savings Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	OPsaver Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	PUMPsaver Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Social Benchmarking Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	THESL Swimming Pool Efficiency Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Air Source Heat Pump for Residential Water Heating Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	Building Optimization Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Conservation Voltage Regulation Leveraging AMI Data Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	Demand Control Kitchen Ventilation Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	Direct Install - Hydronic Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	Direct Install - RTU Controls Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	Electronically Commutated Furnace Motor Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	Electronics Takeback Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	Home Energy Assessment and Retrofit Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	HONI HP Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	P4P for Class B Office Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	Performance Based Conservation Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	Re-Invest Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	Residential Direct Install Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	Residential Direct Mail Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	Residential Ductless Heat Pump Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	Residential Install Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	Social Benchmarking Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	Solar Powered Attic Ventilation Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	Truckload Event Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	Save on Energy Retrofit Program Enabled Savings	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	Save on Energy High Performance New Construction Program Enabled Savi	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	Save on Energy Process & Systems Upgrades Program Enabled Savings	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49	Proposed Program or Pilot	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50	Unassigned Target	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51	EnerNOC Conservation Fund Pilot Program	2015	130,073	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	Home Depot Home Appliance Market Uplift Conservation Fund Pilot Progra	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53	Loblaw P4P Conservation Fund Pilot Program	2015	901,493	901,493	901,493	901,493	901,493	901,493	901,493	901,493	901,493	901,493	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Ontario Clean Water Agency P4P Conservation Fund Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55	Social Benchmarking Conservation Fund Pilot Program	2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Strategic Energy Group Conservation Fund Pilot Program	2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	Appliance Retirement Initiative	2015	155,424	155,424	155,424	154,902	94,825	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	Coupon Initiative	2015	1,027,535	1,018,620	1,018,620	1,018,620	1,018,620	1,018,620	1,018,620	1,018,276	1,018,276	1,018,276	897,223	892,900	892,900	891,106	891,106	890,669	346,273	346,273	346,273	346,273	0	0	0	0	0	0
59	Bi-Annual Retailer Event Initiative	2015	2,194,924	2,119,365	2,119,365	2,119,365	2,119,365	2,119,365	2,119,365	2,119,365	2,119,365	2,119,365	1,879,773	1,625,033	1,625,033	1,625,033	1,625,033	1,625,033	1,094,648	1,094,648	1,094,648	1,094,648	0	0	0	0	0	0
60	HVAC Incentives Initiative	2015	3,175,791	3,175,791	3,175,791	3,175,791	3,175,791	3,175,791	3,175,791	3,175,791	3,175,791	3,175,791	3,175,791	3,175,791	3,175,791	3,175,791	3,175,791	3,175,791	3,175,791	3,175,791	3,006,226	0	0	0	0	0	0	0
61	Residential New Construction and Major Renovation Initiative	2015	58,971	58,971	58,971	58,971	58,971	58,971	58,971	58,971	58,971	58,971	58,971	58,971	58,971	58,971	58,971	58,971	58,971	58,971	58,971	58,971	51,586	51,586	51,586	0	0	0
62	Energy Audit Initiative	2015	875,115	875,115	875,115	875,115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	Efficiency: Equipment Replacement Incentive Initiative	2015	51,722,543	51,722,543	51,599,822	51,599,822	51,599,822	51,599,822	50,635,032	50,635,032	49,277,020	45,797,398	34,800,889	32,466,175	17,844,990	17,789,612	17,789,612	12,430,736	808,201	808,201	808,201	808,201	0	0	0	0	0	0
64	Direct Install Lighting and Water Heating Initiative	2015	2,024,454	1,931,260	1,339,668	1,339,668	1,339,668	1,339,668	1,339,668	1,339,668	1,339,668	1,339,668	1,288,435	512,252	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	New Construction and Major Renovation Initiative	2015	1,437,827	1,437,827	1,437,827	1,437,827	1,437,827	1,437,827	1,437,827	1,437,827	1,434,849	1,434,849	1,434,849	1,434,849	1,426,262	1,426,262	1,330,511	0	0	0	0	0	0	0	0	0	0	0
66	Existing Building Commissioning Incentive Initiative	2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	Process and Systems Upgrades Initiatives - Project Incentive Initiative	2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	Process and Systems Upgrades Initiatives - Energy Manager Initiative	2015	1,293,617	949,437	808,737	808,737	793,295	752,682	643,670	620,972	590,250	492,441	199,030	55,120	55,120	55,120	0	0	0	0	0	0	0	0	0	0	0	0
69	Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiat	2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	Low Income Initiative	2015	147,287	115,538	110,988	106,438	103,950	103,950	101,695	98,746	50,947	50,839	50,075	50,075	48,541	48,541	4,848	4,848	4,848	4,848	4,848	4,848	4,140	0	0	0	0	0
71	Aboriginal Conservation Program	2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72	Program Enabled Savings	2015	235,240	235,240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2015 Total			79,472,950	78,733,853	77,604,801	77,599,729	76,646,607	76,511,169	75,263,435	75,233,381	73,754,234	69,615,952	55,225,165	51,669,962	34,913,249	34,733,893	34,539,329	27,693,650	10,490,848	10,490,848	10,169,522	4,094,958	55,726	51,586	51,586	0	0	0
2015 Adjustment																												
73	Save on Energy Coupon Program	2015 Adjustment	810,288	800,565	800,565	800,565	800,565	800,565	800,565	800,073	800,073	800,073	717,504	716,210	716,210	712,095	712,095	710,915	331,334	331,334	331,334	331,334	0	0	0	0	0	0
74	Save on Energy Heating & Cooling Program	2015 Adjustment	506,403	506,403	506,403	506,403	506,403	506,403	506,403	506,403	506,403	506,403	506,403	506,403	506,403	506,403	506,403	506,403	506,403	506,403	496,860	0	0	0	0	0	0	0
75	Save on Energy New Construction Program	2015 Adjustment	992	992	992	992	992	992	992	992	992	992	992	992	992	992	992	992	992	0	0	0	0	0	0	0	0	0
76	Save on Energy Home Assistance Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	Save on Energy Audit Funding Program	2015 Adjustment	311,335	311,335	311,335	311,335	311,335	311,335	311,335	311,335	311,335	311,335	311,335	311,335	311,335	217,934	0	0	0	0	0	0	0	0	0	0	0	0
78	Save on Energy Retrofit Program	2015 Adjustment	12,562,665	12,480,157	12,462,081	12,462,081	12,462,081	12,439,930	12,115,408	12,115,408	12,077,367	11,049,707	8,335,979	7,910,704	5,661,658	5,661,658	5,661,658	3,889,527	15,247	15,247	15,247	15,247	0	0	0	0	0	0
79	Save on Energy Small Business Lighting Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	Save on Energy High Performance New Construction Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	Save on Energy Existing Building Commissioning Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	Save on Energy Process & Systems Upgrades Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	Save on Energy Energy Manager Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	Save on Energy Monitoring & Targeting Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	Save on Energy Retrofit Program - P4P	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	Save on Energy Process & Systems Upgrades Program - P4P	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	Adaptive Thermostat Local Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	Business Refrigeration Incentives Local Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	Conservation on the Coast Home Assistance Local Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90	Conservation on the Coast Small Business Lighting Local Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	First Nations Conservation Local Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92	High Efficiency Agriculturual Pumping Local Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	Instant Savings Local Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	OPsaver Local Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	PUMPsaver Local Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	Social Benchmarking Local Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	THESL Swimming Pool Efficiency Local Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	Air Source Heat Pump for Residential Water Heating Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	Building Optimization Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	Conservation Voltage Regulation Leveraging AMI Data Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	Demand Control Kitchen Ventilation Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102	Direct Install - Hydronic Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	Direct Install - RTU Controls Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104	Electronically Commutated Furnace Motor Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	Electronics Takeback Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106	Home Energy Assessment and Retrofit Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107	HONI HP Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	P4P for Class B Office Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	Performance Based Conservation Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	Re-Invest Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	Residential Direct Install Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	Residential Direct Mail Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113	Residential Ductless Heat Pump Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114	Residential Install Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	Social Benchmarking Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116	Solar Powered Attic Ventilation Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	Truckload Event Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118	Save on Energy Retrofit Program Enabled Savings	2015 Adjustment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
119	Save on Energy High Performance New Construction Program Enabled Savi	2015 Adjustment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
120	Save on Energy Process & Systems Upgrades Program Enabled Savings	2015 Adjustment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
121	Proposed Program or Pilot	2015 Adjustment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
122	Unassigned Target	2015 Adjustment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
123	EnerNOC Conservation Fund Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124	Home Depot Home Appliance Market Uplift Conservation Fund Pilot Progra	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	Loblaw P4P Conservation Fund Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	Ontario Clean Water Agency P4P Conservation Fund Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Strategic Energy Group Conservation Fund Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
128	Social Benchmarking Conservation Fund Pilot Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	Appliance Retirement Initiative	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	Coupon Initiative	2015 Adjustment	46,083	45,730	45,730	45,730	45,730	45,730	45,730	45,726	45,726	45,726	43,100	42,882	42,882	42,736	42,736	42,733	14,093	14,093	14,093	14,093	0	0	0	0	0	0
131	Bi-Annual Retailer Event Initiative	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
132	HVAC Incentives Initiative	2015 Adjustment	43,375	43,375	43,375	43,375	43,375	43,375	43,375	43,375	43,375	43,375	43,375	43,375	43,375	43,375	43,375	43,375	43,375	43,375	42,044	0	0	0	0	0	0	0
133	Residential New Construction and Major Renovation Initiative	2015 Adjustment	805,682	805,682	805,682	805,682	805,682	805,682	805,682	805,682	805,682	805,682	804,215	804,215	804,215	804,215	804,215	804,215	404,575	404,575	404,575	404,575	404,559	404,559	404,559	0	0	0
134	Energy Audit Initiative	2015 Adjustment	1,926,895	1,926,895	1,926,895	1,926,895	2,802,011	2,802,011	2,802,011	2,802,011	2,802,011	2,802,011	2,802,011	2,802,011	2,802,011	1,961,408	0	0	0	0	0	0	0	0	0	0	0	0
135	Efficiency: Equipment Replacement Incentive Initiative	2015 Adjustment	2,316,888	2,316,888	2,316,888	2,316,888	2,316,888	2,316,888	2,268,118	2,268,118	2,029,093	1,764,160	1,408,213	1,203,506	424,820	424,820	424,820	338,510	39,199	39,199	39,199	39,199	0	0	0	0	0	0
136	Direct Install Lighting and Water Heating Initiative	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
137	New Construction and Major Renovation Initiative	2015 Adjustment	903,373	903,373	903,373	903,373	903,373	903,373	903,373	903,373	903,373	903,373	903,373	903,373	903,373	903,373	391,981	0	0	0	0	0	0	0	0	0	0	0
138	Existing Building Commissioning Incentive Initiative	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	Process and Systems Upgrades Initiatives - Project Incentive Initiative	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	Process and Systems Upgrades Initiatives - Energy Manager Initiative	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
141	Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiat	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142	Low Income Initiative	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
143	Aboriginal Conservation Program	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
144	Program Enabled Savings	2015 Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2015 Adjustment Total			20,233,979	20,141,395	20,123,319	20,123,319	20,998,435	20,976,284	20,602,992	20,602,496	20,325,430	19,032,837	15,876,500	15,245,006	12,217,274	11,279,009	8,588,275	6,336,670	1,355,218	1,354,226	1,343,352	804,448	404,559	404,559	404,559	0	0	0
2016																												
145	Save on Energy Coupon Program	2016	-	32,980,841	32,980,841	32,980,841	32,980,841	32,980,841	32,980,841	32,980,841	32,975,449	32,975,449	32,819,269	32,386,370	32,366,345	32,366,345	32,193,898	28,113,020	28,113,020	12,529,658	0	0	0	0	0	0	0	0
146	Save on Energy Heating & Cooling Program	2016	-	6,696,541	6,696,541	6,696,541	6,696,541	6,696,541	6,696,541	6,696,541	6,696,541	6,696,541	6,696,541	6,696,541	6,696,541	6,696,541	6,696,541	6,696,541	6,696,541	6,696,541	6,696,541	6,520,592	0	0	0	0	0	0
147	Save on Energy New Construction Program	2016	-	330,563	330,563	330,563	330,563	330,563	330,563	330,563	330,563	330,563	330,563	330,563	330,563	330,563	330,563	330,563	320,393	0	0	0	0	0	0	0	0	0
148	Save on Energy Home Assistance Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
149	Save on Energy Audit Funding Program	2016	-	170,854	170,854	170,854	170,854	170,854	170,854	170,854	170,854	170,854	170,854	42,182	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	Save on Energy Retrofit Program	2016	-	60,465,338	59,505,868	59,505,868	59,505,868	59,505,868	59,000,951	59,000,951	59,000,951	58,676,226	58,676,226	57,941,446	48,819,150	26,272,122	26,272,122	2,673,019	75,780	75,780	75,780	75,780	75,780	0	0	0	0	0
151	Save on Energy Small Business Lighting Program	2016	-	60,829	60,829	60,829	60,829	56,838	56,838	40,800	34,589	29,548	22,234	18,598	7,001	1,980	1,980	1,980	1,980	1,980	1,980	1,980	1,980	1,980	1,980	0	0	0
152	Save on Energy High Performance New Construction Program	2016	-	1,646,039	1,646,039	1,646,039	1,646,039	1,646,039	1,646,039	1,646,039	1,646,039	1,646,039	1,646,039	1,646,039	1,646,039	1,646,039	1,646,039	1,646,039	1,220,094	981,218	954,161	899,463	899,463	899,463	899,463	899,463	899,463	899,463
153	Save on Energy Existing Building Commissioning Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
154	Save on Energy Process & Systems Upgrades Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	Save on Energy Energy Manager Program	2016	-	1,619,649	888,301	667,610	617,845	617,845	343,518	343,518	343,518	343,518	295,986	152,324	152,324	152,324	145,604	145,604	145,604	145,604	145,604	145,604	145,604	0	0	0	0	0
156	Save on Energy Monitoring & Targeting Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
157	Save on Energy Retrofit Program - P4P	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
158	Save on Energy Process & Systems Upgrades Program - P4P	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
159	Adaptive Thermostat Local Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	Business Refrigeration Incentives Local Program	2016	-	1,013,502	1,009,583	1,009,583	878,605	804,761	784,899	784,899	784,899	784,899	784,899	736,152	713,410	713,410	713,410	713,410	0	0	0	0	0	0	0	0	0	0
161	Conservation on the Coast Home Assistance Local Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162	Conservation on the Coast Small Business Lighting Local Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
163	First Nations Conservation Local Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
164	High Efficiency Agriculturual Pumping Local Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	Instant Savings Local Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
166	OPsaver Local Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
167	PUMPsaver Local Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
168	Social Benchmarking Local Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
169	THESL Swimming Pool Efficiency Local Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	Air Source Heat Pump for Residential Water Heating Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
171	Building Optimization Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
172	Conservation Voltage Regulation Leveraging AMI Data Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
173	Demand Control Kitchen Ventilation Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
174	Direct Install - Hydronic Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	Direct Install - RTU Controls Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
176	Electronically Commutated Furnace Motor Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
177	Electronics Takeback Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
178	Home Energy Assessment and Retrofit Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
179	HONI HP Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	P4P for Class B Office Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
181	Performance Based Conservation Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
182	Re-Invest Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
183	Residential Direct Install Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
184	Residential Direct Mail Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
185	Residential Ductless Heat Pump Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
186	Residential Install Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
187	Social Benchmarking Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
188	Solar Powered Attic Ventilation Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
189	Truckload Event Pilot Program	2016	-	202,605	202,605	202,605	202,605	202,605	202,605	202,605	202,605	202,605	202,605	202,605	202,605	202,605	169,609	169,609	60,975	60,975	0	0	0	0	0	0	0	0
190	Save on Energy Retrofit Program Enabled Savings	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191	Save on Energy High Performance New Construction Program Enabled Savi	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
192	Save on Energy Process & Systems Upgrades Program Enabled Savings	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
193	Proposed Program or Pilot	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
194	Unassigned Target	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
195	EnerNOC Conservation Fund Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
196	Home Depot Home Appliance Market Uplift Conservation Fund Pilot Progra	2016	-	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	6,077	4,572	4,572	4,572	4,572	0	0	0	0	0	0	0
197	Loblaw P4P Conservation Fund Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
198	Ontario Clean Water Agency P4P Conservation Fund Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
199	Strategic Energy Group Conservation Fund Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200	Social Benchmarking Conservation Fund Pilot Program	2016	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
201	Appliance Retirement Initiative	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	Coupon Initiative	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	Bi-Annual Retailer Event Initiative	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	HVAC Incentives Initiative	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
205	Residential New Construction and Major Renovation Initiative	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	Energy Audit Initiative	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
207	Efficiency: Equipment Replacement Incentive Initiative	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	Direct Install Lighting and Water Heating Initiative	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	New Construction and Major Renovation Initiative	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	Existing Building Commissioning Incentive Initiative	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
211	Process and Systems Upgrades Initiatives - Project Incentive Initiative	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
212	Process and Systems Upgrades Initiatives - Energy Manager Initiative	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
213	Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiat	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
214	Low Income Initiative	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
215	Aboriginal Conservation Program	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	Program Enabled Savings	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2016 Total			-	105,192,838	103,498,101	103,277,410	103,096,667	103,018,832	102,219,726	102,203,688	102,192,085	101,862,319	101,651,293	100,158,897	90,940,055	68,388,006	68,175,843	40,494,357	36,638,959	20,496,328	7,878,638	7,643,419	1,122,827	901,443	901,443	899,463	899,463	899,463
Total			99,706,929	204,068,086	201,226,221	201,000,458	200,741,709	200,506,285	198,086,153	198,039,565	196,271,749	190,511,108	172,752,958	167,073,865	138,070,578	114,400,908	111,303,447	74,524,677	48,485,025	32,341,402	19,391,512	12,542,825	1,583,112	1,357,588	1,357,588	899,463	899,463	899,463

Net Verified Energy Savings >
Net Verified Peak Demand Savings >
Net Verified Savings >

Savings Persistence Report

For: Province Wide

#	Program / Initiative Name	Implementation Year	Gross Verified Energy Savings > .	Gross Verified Peak Demand Savings > .	Gross Verified Savings > .	Net Verified Energy Savings > .	Net Verified Peak Demand Savings > .	Net Verified Savings > .
2015								
1	Save on Energy Coupon Program	2015						
2	Save on Energy Heating & Cooling Program	2015						
3	Save on Energy New Construction Program	2015						
4	Save on Energy Home Assistance Program	2015						
5	Save on Energy Audit Funding Program	2015						
6	Save on Energy Retrofit Program	2015						
7	Save on Energy Small Business Lighting Program	2015						
8	Save on Energy High Performance New Construction Program	2015						
9	Save on Energy Existing Building Commissioning Program	2015						
10	Save on Energy Process & Systems Upgrades Program	2015						
11	Save on Energy Energy Manager Program	2015						
12	Save on Energy Monitoring & Targeting Program	2015						
13	Save on Energy Retrofit Program - P4P	2015						
14	Save on Energy Process & Systems Upgrades Program - P4P	2015						
15	Adaptive Thermostat Local Program	2015						
16	Business Refrigeration Incentives Local Program	2015						
17	Conservation on the Coast Home Assistance Local Program	2015						
18	Conservation on the Coast Small Business Lighting Local Program	2015						
19	First Nations Conservation Local Program	2015						
20	High Efficiency Agriculturual Pumping Local Program	2015						
21	Instant Savings Local Program	2015						
22	OPsaver Local Program	2015						
23	PUMPsaver Local Program	2015						
24	Social Benchmarking Local Program	2015						
25	THESL Swimming Pool Efficiency Local Program	2015						
26	Air Source Heat Pump for Residential Water Heating Pilot Program	2015						
27	Building Optimization Pilot Program	2015						
28	Conservation Voltage Regulation Leveraging AMI Data Pilot Program	2015						
29	Demand Control Kitchen Ventilation Pilot Program	2015						
30	Direct Install - Hydronic Pilot Program	2015						
31	Direct Install - RTU Controls Pilot Program	2015						
32	Electronically Commutated Furnace Motor Pilot Program	2015						
33	Electronics Takeback Pilot Program	2015						
34	Home Energy Assessment and Retrofit Pilot Program	2015						
35	HONI HP Pilot Program	2015						
36	P4P for Class B Office Pilot Program	2015						
37	Performance Based Conservation Pilot Program	2015						
38	Re-Invest Pilot Program	2015						
39	Residential Direct Install Pilot Program	2015						
40	Residential Direct Mail Pilot Program	2015						
41	Residential Ductless Heat Pump Pilot Program	2015						
42	Residential Install Pilot Program	2015						
43	Social Benchmarking Pilot Program	2015						
44	Solar Powered Attic Ventilation Pilot Program	2015						
45	Truckload Event Pilot Program	2015						
46	Save on Energy Retrofit Program Enabled Savings	2015						
47	Save on Energy High Performance New Construction Program Enabled Savir	2015						
48	Save on Energy Process & Systems Upgrades Program Enabled Savings	2015						
49	Proposed Program or Pilot	2015						
50	Unassigned Target	2015						
51	EnerNOC Conservation Fund Pilot Program	2015						
52	Home Depot Home Appliance Market Uplift Conservation Fund Pilot Progra	2015						
53	Loblaw P4P Conservation Fund Pilot Program	2015						
54	Ontario Clean Water Agency P4P Conservation Fund Pilot Program	2015						
55	Strategic Energy Group Conservation Fund Pilot Program	2015						
56	Social Benchmarking Conservation Fund Pilot Program	2015						
57	Appliance Retirement Initiative	2015						
58	Coupon Initiative	2015						
59	Bi-Annual Retailer Event Initiative	2015						
60	HVAC Incentives Initiative	2015						
61	Residential New Construction and Major Renovation Initiative	2015						
62	Energy Audit Initiative	2015						
63	Efficiency: Equipment Replacement Incentive Initiative	2015						
64	Direct Install Lighting and Water Heating Initiative	2015						
65	New Construction and Major Renovation Initiative	2015						
66	Existing Building Commissioning Incentive Initiative	2015						
67	Process and Systems Upgrades Initiatives - Project Incentive Initiative	2015						
68	Process and Systems Upgrades Initiatives - Energy Manager Initiative	2015						
69	Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiati	2015						
70	Low Income Initiative	2015						
71	Aboriginal Conservation Program	2015						
72	Program Enabled Savings	2015						
2015 Total								
2015 Adjustment								
73	Save on Energy Coupon Program	2015 Adjustment						
74	Save on Energy Heating & Cooling Program	2015 Adjustment						
75	Save on Energy New Construction Program	2015 Adjustment						
76	Save on Energy Home Assistance Program	2015 Adjustment						
77	Save on Energy Audit Funding Program	2015 Adjustment						
78	Save on Energy Retrofit Program	2015 Adjustment						
79	Save on Energy Small Business Lighting Program	2015 Adjustment						
80	Save on Energy High Performance New Construction Program	2015 Adjustment						
81	Save on Energy Existing Building Commissioning Program	2015 Adjustment						
82	Save on Energy Process & Systems Upgrades Program	2015 Adjustment						
83	Save on Energy Energy Manager Program	2015 Adjustment						
84	Save on Energy Monitoring & Targeting Program	2015 Adjustment						
85	Save on Energy Retrofit Program - P4P	2015 Adjustment						
86	Save on Energy Process & Systems Upgrades Program - P4P	2015 Adjustment						
87	Adaptive Thermostat Local Program	2015 Adjustment						
88	Business Refrigeration Incentives Local Program	2015 Adjustment						
89	Conservation on the Coast Home Assistance Local Program	2015 Adjustment						
90	Conservation on the Coast Small Business Lighting Local Program	2015 Adjustment						
91	First Nations Conservation Local Program	2015 Adjustment						
92	High Efficiency Agriculturual Pumping Local Program	2015 Adjustment						
93	Instant Savings Local Program	2015 Adjustment						
94	OPsaver Local Program	2015 Adjustment						
95	PUMPsaver Local Program	2015 Adjustment						
96	Social Benchmarking Local Program	2015 Adjustment						
97	THESL Swimming Pool Efficiency Local Program	2015 Adjustment						
98	Air Source Heat Pump for Residential Water Heating Pilot Program	2015 Adjustment						
99	Building Optimization Pilot Program	2015 Adjustment						
100	Conservation Voltage Regulation Leveraging AMI Data Pilot Program	2015 Adjustment						
101	Demand Control Kitchen Ventilation Pilot Program	2015 Adjustment						
102	Direct Install - Hydronic Pilot Program	2015 Adjustment						
103	Direct Install - RTU Controls Pilot Program	2015 Adjustment						
104	Electronically Commutated Furnace Motor Pilot Program	2015 Adjustment						
105	Electronics Takeback Pilot Program	2015 Adjustment						
106	Home Energy Assessment and Retrofit Pilot Program	2015 Adjustment						
107	HONI HP Pilot Program	2015 Adjustment						
108	P4P for Class B Office Pilot Program	2015 Adjustment						
109	Performance Based Conservation Pilot Program	2015 Adjustment						
110	Re-Invest Pilot Program	2015 Adjustment						
111	Residential Direct Install Pilot Program	2015 Adjustment						
112	Residential Direct Mail Pilot Program	2015 Adjustment						
113	Residential Ductless Heat Pump Pilot Program	2015 Adjustment						
114	Residential Install Pilot Program	2015 Adjustment						
115	Social Benchmarking Pilot Program	2015 Adjustment						
116	Solar Powered Attic Ventilation Pilot Program	2015 Adjustment						
117	Truckload Event Pilot Program	2015 Adjustment						
118	Save on Energy Retrofit Program Enabled Savings	2015 Adjustment						
119	Save on Energy High Performance New Construction Program Enabled Savir	2015 Adjustment						
120	Save on Energy Process & Systems Upgrades Program Enabled Savings	2015 Adjustment						
121	Proposed Program or Pilot	2015 Adjustment						
122	Unassigned Target	2015 Adjustment						
123	EnerNOC Conservation Fund Pilot Program	2015 Adjustment						
124	Home Depot Home Appliance Market Uplift Conservation Fund Pilot Progra	2015 Adjustment						
125	Loblaw P4P Conservation Fund Pilot Program	2015 Adjustment						
126	Ontario Clean Water Agency P4P Conservation Fund Pilot Program	2015 Adjustment						
127	Strategic Energy Group Conservation Fund Pilot Program	2015 Adjustment						
128	Social Benchmarking Conservation Fund Pilot Program	2015 Adjustment						
129	Appliance Retirement Initiative	2015 Adjustment						
130	Coupon Initiative	2015 Adjustment						
131	Bi-Annual Retailer Event Initiative	2015 Adjustment						
132	HVAC Incentives Initiative	2015 Adjustment						
133	Residential New Construction and Major Renovation Initiative	2015 Adjustment						
134	Energy Audit Initiative	2015 Adjustment						
135	Efficiency: Equipment Replacement Incentive Initiative	2015 Adjustment						
136	Direct Install Lighting and Water Heating Initiative	2015 Adjustment						
137	New Construction and Major Renovation Initiative	2015 Adjustment						
138	Existing Building Commissioning Incentive Initiative	2015 Adjustment						
139	Process and Systems Upgrades Initiatives - Project Incentive Initiative	2015 Adjustment						
140	Process and Systems Upgrades Initiatives - Energy Manager Initiative	2015 Adjustment						
141	Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiati	2015 Adjustment						
142	Low Income Initiative	2015 Adjustment						
143	Aboriginal Conservation Program	2015 Adjustment						
144	Program Enabled Savings	2015 Adjustment						
2015 Adjustment Total								
2016								
145	Save on Energy Coupon Program	2016						
146	Save on Energy Heating & Cooling Program	2016						
147	Save on Energy New Construction Program	2016						
148	Save on Energy Home Assistance Program	2016						
149	Save on Energy Audit Funding Program	2016						
150	Save on Energy Retrofit Program	2016						
151	Save on Energy Small Business Lighting Program	2016						
152	Save on Energy High Performance New Construction Program	2016						
153	Save on Energy Existing Building Commissioning Program	2016						
154	Save on Energy Process & Systems Upgrades Program	2016						
155	Save on Energy Energy Manager Program	2016						
156	Save on Energy Monitoring & Targeting Program	2016						
157	Save on Energy Retrofit Program - P4P	2016						
158	Save on Energy Process & Systems Upgrades Program - P4P	2016						
159	Adaptive Thermostat Local Program	2016						
160	Business Refrigeration Incentives Local Program	2016						
161	Conservation on the Coast Home Assistance Local Program	2016						
162	Conservation on the Coast Small Business Lighting Local Program	2016						
163	First Nations Conservation Local Program	2016						
164	High Efficiency Agriculturual Pumping Local Program	2016						
165	Instant Savings Local Program	2016						
166	OPsaver Local Program	2016						
167	PUMPsaver Local Program	2016						
168	Social Benchmarking Local Program	2016						
169	THESL Swimming Pool Efficiency Local Program	2016						
170	Air Source Heat Pump for Residential Water Heating Pilot Program	2016						
171	Building Optimization Pilot Program	2016						
172	Conservation Voltage Regulation Leveraging AMI Data Pilot Program	2016						
173	Demand Control Kitchen Ventilation Pilot Program	2016						
174	Direct Install - Hydronic Pilot Program	2016						
175	Direct Install - RTU Controls Pilot Program	2016						
176	Electronically Commutated Furnace Motor Pilot Program	2016						
177	Electronics Takeback Pilot Program	2016						
178	Home Energy Assessment and Retrofit Pilot Program	2016						
179	HONI HP Pilot Program	2016						
180	P4P for Class B Office Pilot Program	2016						
181	Performance Based Conservation Pilot Program	2016						
182	Re-Invest Pilot Program	2016						
183	Residential Direct Install Pilot Program	2016						
184	Residential Direct Mail Pilot Program	2016						
185	Residential Ductless Heat Pump Pilot Program	2016						
186	Residential Install Pilot Program	2016						
187	Social Benchmarking Pilot Program	2016						
188	Solar Powered Attic Ventilation Pilot Program	2016						
189	Truckload Event Pilot Program	2016						
190	Save on Energy Retrofit Program Enabled Savings	2016						
191	Save on Energy High Performance New Construction Program Enabled Savir	2016						
192	Save on Energy Process & Systems Upgrades Program Enabled Savings	2016						
193	Proposed Program or Pilot	2016						
194	Unassigned Target	2016						
195	EnerNOC Conservation Fund Pilot Program	2016						
196	Home Depot Home Appliance Market Uplift Conservation Fund Pilot Progra	2016						
197	Loblaw P4P Conservation Fund Pilot Program	2016						
198	Ontario Clean Water Agency P4P Conservation Fund Pilot Program	2016						
199	Strategic Energy Group Conservation Fund Pilot Program	2016						
200	Social Benchmarking Conservation Fund Pilot Program	2016						
201	Appliance Retirement Initiative	2016						
202	Coupon Initiative	2016						
203	Bi-Annual Retailer Event Initiative	2016						
204	HVAC Incentives Initiative	2016						
205	Residential New Construction and Major Renovation Initiative	2016						
206	Energy Audit Initiative	2016						
207	Efficiency: Equipment Replacement Incentive Initiative	2016						
208	Direct Install Lighting and Water Heating Initiative	2016						
209	New Construction and Major Renovation Initiative	2016						
210	Existing Building Commissioning Incentive Initiative	2016						
211	Process and Systems Upgrades Initiatives - Project Incentive Initiative	2016						
212	Process and Systems Upgrades Initiatives - Energy Manager Initiative	2016						
213	Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiati	2016						
214	Low Income Initiative	2016						
215	Aboriginal Conservation Program	2016						
216	Program Enabled Savings	2016						
2016 Total								
Total								

Final Verified 2016 Annual LDC CDM Program Results Report
Methodology

General

All results are at the end-user level (not including transmission and distribution losses) and reported to IESO by April 15, 2017. 2015 results are based on projects completed between January 1, 2015 and December 31, 2015 and reported to the IESO by March 31, 2016. 2015 Adjustment results are based on projects completed between January 1, 2015 and December 31, 2015 and reported to the IESO between April 1, 2016 and April 15 2017. 2016 results are based on projects compelted between January 1, 2016 and December 31, 2016 and reported to the IESO by April 15, 2017.

Legacy Framework results are based on projects begun prior to an LDC's transition to the Conservation First Framework program and completed by December 31, 2015. Conservation First Framework results are based on projects begun after an LDC's transition to the Conservation First Framework program and projects transitioned to the Conservation First Framework through a valid Extension Agreement or eligible Programs.

Savings Calculations

#	Project Type	Attributing Savings to LDCs
1	Prescriptive Measures and Projects Programs	**Gross Reported Savings** = Activity * Per Unit Assumption Savings **Gross Verified Savings** = Gross Reported Savings * Realization Rate **Net Verified Savings** = Gross Verified Savings * Net-to-Gross Ratio All savings are annualized (i.e. the savings are the same regardless of time of year a project was completed or measure installed)
2	Engineered and Custom Projects / Programs	**Gross Reported Savings** = Reported Savings **Gross Verified Savings** = Gross Reported Savings * Realization Rate **Net Verified Savings** = Gross Verified Savings * Net-to-Gross Ratio All savings are annualized (i.e. the savings are the same regardless of time of year a project was completed or measure installed)
3	Adjustments to Previous Years' Verified Results	All variances from the Final Annual Results Reports from prior years will be adjusted within this report. Any variances with regards to projects counts, data lag, and calculations etc., will be made within this report. Considers the annual effect of energy savings.

Cost Determination

Costs are determined and allocated to the period based on the date the cost has been reported to the IESO regardless of when the cost was incurred.

E.g. if an LDC reports by the December 2016 IESO Reporting Period: 1) program savings; 2) Participant Incentives; and 3) Administrative Expenses associated with a 2016 completed project, then: a) the savings; b) expenditures; and c) corresponding cost effectiveness; are attributed to the 2016 program year.

However if the same is reported in or after the January 2017 IESO Reporting Period: i) the savings will be attributed to the 2016 program year; ii) the expenditures will be attributed to the 2017 program year and will not appear in the 2016 Verified Results Report; but iii) the project's Participant Incentives will be used to calculate 2016 Cost Effectiveness;

2015-2020 Conservation First Framework

#	Program	Attributing Savings to LDCs	Project List Date	Savings 'start' Date	Calculating Resource Savings
1	Save on Energy Coupon Program	LDC-coded coupons directly attributed to LDC; Otherwise results are allocated based on Consumer Program Allocation Reference Table.	April 15, 2017	Savings are considered to begin in the year in which the coupon was redeemed.	Peak demand and energy savings are determined using the verified measure level per unit assumption multiplied by the uptake in the market (gross) taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.
2	Save on Energy Heating & Cooling Program	Results directly attributed to LDC based on customer applications and postal code.	April 15, 2017	Savings are considered to begin in the year that the installation occurred.	
3	Save on Energy New Construction Program	Results are directly attributed to LDC based on LDC identified in LDC Report	April 15, 2017	Savings are considered to begin in the year of the project completion date.	
4	Save on Energy Home Assistance Program	Results are directly attributed to LDC based on LDC identified in the application.	April 15, 2017	Savings are considered to begin in the year in which the measures were installed.	
5	Save on Energy Audit Funding Program	Projects are directly attributed to LDC based on LDC identified in the application.	April 15, 2017	Savings are considered to begin in the year of the audit date.	Peak demand and energy savings are determined by the total savings resulting from an audit as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).
6	Save on Energy Retrofit Program	Projects are directly attributed to LDC based on LDC identified in the application.	April 15, 2017	Savings are considered to begin in the year of the actual project completion date as reported in the LDC Report	Peak demand and energy savings are determined by the total savings for a given project as reported in the iCON system (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). Both realization rate and net-to-gross ratios can differ for energy and demand savings and depend on the mix of projects within an LDC territory (i.e. lighting or non-lighting project, engineered/custom/prescriptive track).
7	Save on Energy Small Business Lighting Program	Results are directly attributed to LDC based on the LDC specified on the work order.	April 15, 2017	Savings are considered to begin in the year of the actual project completion date.	Peak demand and energy savings are determined using the verified measure level per unit assumptions multiplied by the uptake of each measure accounting for the realization rate for both peak demand and energy to reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings take into account net-to-gross factors such as free-ridership and spillover for both peak demand and energy savings at the program level (net).
8	Save on Energy High Performance New Construction Program	Results are directly attributed to LDC based on LDC identified in the application.	April 15, 2017	Savings are considered to begin in the year of the actual project completion date.	Peak demand and energy savings are determined by the total savings for a given project as reported in the CDM LDC Report Template. Preliminary unverified net savings are calculated by multiplying reported savings by 2014 Net-to-gross ratios and realization rates.
9	Save on Energy Existing Building Commissioning Program	Results are directly attributed to LDC based on LDC identified in the application.	April 15, 2017	Savings are considered to begin in the year of the actual project completion date.	
10	Save on Energy Process and Systems Upgrades Program	Results are directly attributed to LDC based on LDC identified in application.	April 15, 2017	Savings are considered to begin in the year in which the project was in-service.	Peak demand and energy savings are determined by the total savings from a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).
11	Save on Energy Energy Manager Program	Results are directly attributed to LDC based on LDC identified in the application.	April 15, 2017	Savings are considered to begin in the year in which the project was completed by the energy manager.	
12	Save on Energy Monitoring and Targeting Program	Results are directly attributed to LDC based on LDC identified in the application.	April 15, 2017	Savings are considered to begin in the year in which the incentive project was completed.	

2011-2014+2015 Extension Legacy Framework

#	Initiative	Attributing Savings to LDCs	Project List Date	Savings 'start' Date	Calculating Resource Savings
1	saveONenergy Appliance Retirement Initiative	Includes both retail and home pickup stream. Retail stream allocated based on average of 2008 & 2009 residential throughput; Home pickup stream directly attributed by postal code or customer selection.	April 15, 2017	Savings are considered to begin in the year the appliance is picked up.	Peak demand and energy savings are determined using the verified measure level per unit assumption multiplied by the uptake in the market (gross) taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.
2	saveONenergy Conservation Instant Coupon Booklet	LDC-coded coupons directly attributed to LDC. Otherwise results are allocated based on average of 2008 & 2009 residential throughput.	April 15, 2017	Savings are considered to begin in the year in which the coupon was redeemed.	
3	saveONenergy Bi-Annual Retailer Event	Results are allocated based on average of 2008 & 2009 residential throughput.	April 15, 2017	Savings are considered to begin in the year in which the event occurs.	
4	saveONenergy HVAC Incentives	Results directly attributed to LDC based on customer applications and postal code.	April 15, 2017	Savings are considered to begin in the year that the installation occurred.	
5	saveONenergy Residential New Construction	Results are directly attributed to LDC based on LDC identified in application in the iCon system.	April 15, 2017	Savings are considered to begin in the year of the project completion date.	
6	saveONenergy Energy Audit	Projects are directly attributed to LDC based on LDC identified in the application.	April 15, 2017	Savings are considered to begin in the year of the audit date.	Peak demand and energy savings are determined by the total savings resulting from an audit as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).
7	saveONenergy Efficiency: Equipment Replacement	Results are directly attributed to LDC based on LDC identified at the facility level in the iCon system. Projects in the Application Status: "Post-Stage Submission" are included (excluding "Payment denied by LDC"); Please see page for Building type to Sector mapping.	April 15, 2017	Savings are considered to begin in the year of the actual project completion date in the iCON system.	Peak demand and energy savings are determined by the total savings for a given project as reported in the iCON system (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). Both realization rate and net-to-gross ratios can differ for energy and demand savings and depend on the mix of projects within an LDC territory (i.e. lighting or non-lighting project, engineered/custom/prescriptive track). Additional Note: project counts were derived by filtering out invalid statuses (e.g. Post-Project Submission - Payment denied by LDC) and only including projects with an "Actual Project Completion Date" in 2014)
8	saveONenergy Direct Installed Lighting	Results are directly attributed to LDC based on the LDC specified on the work order.	April 15, 2017	Savings are considered to begin in the year of the actual project completion date.	Peak demand and energy savings are determined using the verified measure level per unit assumptions multiplied by the uptake of each measure accounting for the realization rate for both peak demand and energy to reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings take into account net-to-gross factors such as free-ridership and spillover for both peak demand and energy savings at the program level (net).
9	saveONenergy New Construction and Major Renovation Incentive	Results are directly attributed to LDC based on LDC identified in the application.	April 15, 2017		Peak demand and energy savings are determined by the total savings for a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).
10	saveONenergy Existing Building Commissioning Incentive	Results are directly attributed to LDC based on LDC identified in the application.	April 15, 2017		
11	saveONenergy Process & System Upgrades	Results are directly attributed to LDC based on LDC identified in application.	April 15, 2017	Savings are considered to begin in the year in which the incentive project was completed.	Peak demand and energy savings are determined by the total savings from a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).
12	saveONenergy Energy Manager	Results are directly attributed to LDC based on LDC identified in application.	April 15, 2017	Savings are considered to begin in the year in which the project was completed by the energy manager. If no date is specified the savings will begin the year of the Quarterly Report submitted by the energy manager.	
13	saveONenergy Monitoring & Targeting	Results are directly attributed to LDC based on LDC identified in application.	April 15, 2017	Savings are considered to begin in the year in which the incentive project was completed.	
14	saveONenergy Home Assistance Program	Results are directly attributed to LDC based on LDC identified in the application.	April 15, 2017	Savings are considered to begin in the year in which the measures were installed.	Peak demand and energy savings are determined using the measure level per unit assumption multiplied by the uptake of each measure (gross), taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.
15	Aboriginal Conservation Program	Results are directly attributed to LDC based on LDC identified in the application.	April 15, 2017		
16	Program Enabled Savings		April 15, 2017		

Final Verified 2016 Annual LDC CDM Program Results Report
Consumer Program Allocation Reference Table

#	Local Distribution Company	Allocation (%)
1	Algoma Power Inc.	0.18
2	Atikokan Hydro Inc.	0.02
3	Attawapiskat Power Corporation	0.01
4	Bluewater Power Distribution Corporation	0.62
5	Brantford Power Inc.	0.67
6	Burlington Hydro Inc.	1.34
7	Canadian Niagara Power Inc.	0.35
8	Centre Wellington Hydro Ltd.	0.11
9	Chapleau Public Utilities Corporation	0.03
10	COLLUS PowerStream Corp.	0.25
11	Cooperative Hydro Embrun Inc.	0.06
12	E.L.K. Energy Inc.	0.25
13	Energy+ Inc.	1.12
14	Enersource Hydro Mississauga Inc.	4.64
15	Entegrus Powerlines Inc.	0.70
16	EnWin Utilities Ltd.	1.49
17	Erie Thames Powerlines Corporation	0.32
18	Espanola Regional Hydro Distribution Corporation	0.06
19	Essex Powerlines Corporation	0.61
20	Festival Hydro Inc.	0.32
21	Fort Albany Power Corporation	0.01
22	Fort Frances Power Corporation	0.09
23	Greater Sudbury Hydro Inc.	0.80
24	Grimsby Power Incorporated	0.18
25	Guelph Hydro Electric Systems Inc.	0.85
26	Halton Hills Hydro Inc.	0.59
27	Hearst Power Distribution Company Limited	0.05
28	Horizon Utilities Corporation	3.72
29	Hydro 2000 Inc.	0.04
30	Hydro Hawkesbury Inc.	0.15
31	Hydro One Brampton Networks Inc.	3.59
32	Hydro One Networks Inc.	27.29
33	Hydro Ottawa Limited	6.61
34	InnPower Corporation	0.33
35	Kashechewan Power Corporation	0.02
36	Kenora Hydro Electric Corporation Ltd.	0.09
37	Kingston Hydro Corporation	0.29
38	Kitchener-Wilmot Hydro Inc.	1.51
39	Lakefront Utilities Inc.	0.11
40	Lakeland Power Distribution Ltd.	0.23
41	London Hydro Inc.	2.61
42	Midland Power Utility Corporation	0.10
43	Milton Hydro Distribution Inc.	0.66
44	Newmarket-Tay Power Distribution Ltd.	0.60
45	Niagara Peninsula Energy Inc.	0.82
46	Niagara-on-the-Lake Hydro Inc.	0.13
47	North Bay Hydro Distribution Limited	0.42
48	Northern Ontario Wires Inc.	0.09
49	Oakville Hydro Electricity Distribution Inc.	1.51
50	Orangeville Hydro Limited	0.20
51	Orillia Power Distribution Corporation	0.22
52	Oshawa PUC Networks Inc.	1.48
53	Ottawa River Power Corporation	0.12
54	Peterborough Distribution Incorporated	0.46
55	PowerStream Inc.	7.82
56	PUC Distribution Inc.	0.65
57	Renfrew Hydro Inc.	0.05
58	Rideau St. Lawrence Distribution Inc.	0.07
59	Sioux Lookout Hydro Inc.	0.08
60	St. Thomas Energy Inc.	0.28
61	Thunder Bay Hydro Electricity Distribution Inc.	0.82
62	Tillsonburg Hydro Inc.	0.12
63	Toronto Hydro-Electric System Limited	15.57
64	Veridian Connections Inc.	2.39
65	Wasaga Distribution Inc.	0.18
66	Waterloo North Hydro Inc.	0.96
67	Welland Hydro-Electric System Corp.	0.31
68	Wellington North Power Inc.	0.06
69	West Coast Huron Energy Inc.	0.06
70	Westario Power Inc.	0.37
71	Whitby Hydro Electric Corporation	1.12
Total		100.00

Final Verified 2016 Annual LDC CDM Program Results Report
Glossary

#	Term	Definition
	Reporting Terms	
1	Forecast	An LDCs' forecast of program activity, savings, net-to-gross adjustments, expenditures and cost effectiveness as indicated in each LDC's submitted CDM Plan Cost Effectiveness Tools. Forecasts at the province wide level are the sum of all LDCs' forecasts.
2	Reported	Program activity savings and expenditures as determined by the LDC. For savings: 1) for prescriptive projects/programs: calculating quantity x prescriptive savings assumptions; and 2) for engineered or custom program projects/programs: calculated using prescribed methodologies.
3	Verified	The IESO's annually EM&V assessed program activity, savings, net-to-gross, expenditures and cost effectiveness. Preliminary Verified results are provided by June 1st of each year and Final Verfied results are provided by July 1st of each year.
4	Adjustment	Verified results that were achieved in previous years but were not provided in a previous years' Annual Verified Results Report.
5	Progress or Comparison	An assessment of Actual results versus Verified results.
	Framework Terms	
6	2011-2014+2015 Extension Legacy Framework	Programs in market from 2011-2015 resulting from the April 23, 2010 GEA CDM Ministerial Directive and funded separately from 2015-2020 Conservation First Framework Programs but whose savings in 2015 are attributed towards the 2015-2020 Conservation First Framework target.
7	2015-2020 Conservation First Framework	Programs in market from 2015-2020 resulting from the March 31, 2014 CFF Ministerial Directive and funded separately from 2011-2014+2015 Extension Legacy Framework Programs.
8	LDC Innovation Fund	A source of funding under the 2015-2020 Conservation First Framework separate from LDC CDM Plan Budgets that the IESO maintains to support LDC led program design and market testing of new initiatives. Savings from LDC Innovation Fund pilot programs contribute to the LDCs savings targets based on the LDC service territory the pilot program is delivered in.
9	Conservation Fund	A source of funding external to the 2015-2020 Conservation First Framework that provides financial support for innovative electricity conservation technologies, practices, research, and pilot programs. Savings from Conservation Fund pilot programs contribute to the LDCs savings targets based on the LDC service territory the pilot program is delivered in.
	Programs Terms	
10	Program	A Conservation & Demand Management offering focusing on a particular opportunity or customer end-use (e.g. Coupon; or Retrofit;) from the 2015-2020 Conservation First Framework.
11	Province-Wide Program	Programs available to all LDCs to deliver and that are consistent across the province.
12	Regional Program	Programs designed by LDCs to serve their region and approved by the IESO.
13	Local Program	Programs designed by LDCs to serve their communities and approved by the IESO.
14	Pilot Program	A program pilot that may achieve energy or demand savings and is funded separately from an LDC's CDM Plan Budget.
15	Initiative	A Conservation & Demand Management offering focusing on a particular opportunity or customer end-use (e.g. Fridge & Freezer Pickup) from the 2011-2014+2015 Extension Legacy Framework.
	Activity Terms	
16	Participation	A measure of the level of program participation, such as number of projects, homes, equipment, etc..
17	Unit of Measure	For a specific initiative the relevant type of participation acquired in the market place (e.g. appliances picked up; coupon products installed; HVAC equipment installed; audits performed; or projects completed;).
	Savings Terms	
18	Energy Savings	Energy savings attributable to conservation and demand management activities.
19	Peak Demand Savings	Peak Demand savings attributable to conservation and demand management activities, as determined by the IESO's EM&V Protocols.
20	Incremental Savings	The energy or peak demand savings newly attributable to activity procured in a particular reporting period based on when the savings are considered to 'start'. Savings attributed to activity performed or completed in 2016 are presented as 2016 savings.
21	First Year Savings	The energy or peak demand savings that occur in the year it was achieved (includes resource savings from only new program activity).
22	Annual Savings	The energy or peak demand savings that occur in a given year (includes resource savings from new program activity and resource savings persisting from previous years).
23	Gross Savings	The energy or peak demand savings that have been reported based on a conservation and demand management program's participation tracking.
24	Net Savings	The energy or peak demand savings attributable to conservation and demand management activities, net of free-riders, spill over, etc.
25	Realization Rate	A comparison of originally reported savings and observed or measured savings that adjusts reported savings to arrive at verified savings. Accounts for discrepancies such as audited measure counts; adjustment for connected demand savings to peak demand savings; etc.
26	Net-to-Gross Adjustment	The ratio of net savings to gross savings, which takes into account factors such as free-ridership, spillover, etc.
27	Free-ridership	The percentage of participants who would have implemented the program measure or practice in the absence of the program.
28	Spillover	Reductions in energy consumption and/or demand caused by the presence of the energy efficiency program, beyond the program-related gross savings of the participants. There can be participant and/or non-participant spillover.
29	Allocated Target	Each LDC's assigned portion of the Province's 7 TWh Net 2020 Annual Energy Savings Target of the 2015-2020 Conservation First Framework.
	Costs Terms	
30	Participant Incentive	Costs incurred in the delivery of a program related to incenting participants to perform peak demand or energy savings.
31	LDC Administrative Expense	Costs reported by the LDC in the delivery of a program related to labour, marketing, third-party expenses, etc.
32	IESO Value Added Services Cost	Costs incurred by the IESO's Value Added Service Provider related to associated programs (Coupons and Heating & Cooling), and charged to the LDC in which the programs's activity took place.
33	Total Administrative Expense	The sum of LDC Adminsitrative Expense and IESO Value Added Services Cost.
34	Delivery Cost	The sum of Total Administrative Expenses and Participant Incentives. **All costs are presented based on the period reported by LDCs to the IESO, not necessarily associated with reported activity.** **E.g. if an LDC reports by the December 2016 IESO Reporting Period: 1) program savings; 2) Participant Incentives; and 3) Administrative Expenses associated with a 2016 completed project, then: a) the savings; b) expenditures; and c) corresponding cost effectiveness; are attributed to the 2016 program year.** **However if the same is reported in or after the January 2017 IESO Reporting Period: i) the savings will be attributed to the 2016 program year; ii) the expenditures will be attributed to the 2017 program year and will not appear in the 2016 Verified Results Report; but iii) the project's Participant Incentives will be used to calculate 2016 Cost Effectiveness;**
35	Allocated Budget	Each LDC's assigned portion of the Province's $ 1.835 billion CDM Plan Budget of the 2015-2020 Conservation First Framework.
	Cost Effectiveness Terms	
36	Total Resource Cost Cost Effectiveness Test	A cost effectiveness test that measures the net cost of CDM based on the total costs of the program including both participants' and utility's costs.
37	Program Administrator Cost Cost Effectiveness Test	A cost effectiveness test that measures the net cost of CDM based on costs incurred by the program administrator, including incentive costs and excluding net costs incurred by the participant.
38	Levelized Unit Energy Cost Cost Effectiveness Test	A cost effectiveness test that normalizes the costs incurred by the program administrator per unit of energy or demand reduced.

ATTACHMENT 29
INCREMENTAL CAPITAL MODULE
POWERSTREAM RZ

Ontario Energy Board

Capital Module
Applicable to ACM and ICM

Note: Depending on the selections made below, certain worksheets in this workbook will be hidden. | **Version** 4.10

Utility Name	Alectra Utilities Corporation - PowerStream Rate Zone
Assigned EB Number	EB-2018-0016
Name of Contact and Title	Natalie Yeates, Director, Regulatory Affairs & Reporting
Phone Number	905-283-4095
Email Address	natalie.yeates@alectrautilities.com
Is this Capital Module being filed in a CoS or Price-Cap IR Application?	**Price-Cap IR**
Rate Year	**2019**
Indicate the Price-Cap IR Year (1, 2, 3, 4, etc) in which Alectra Utilities Corporation - PowerStream Rate Zone is applying:	**2**
Alectra Utilities Corporation - PowerStream Rate Zone is applying for:	**ICM Approval**
Last Rebasing Year:	**2017**
The most recent complete year for which actual billing and load data exists	**2017**
Current IPI	**1.20%**
Strech Factor Assigned to Middle Cohort	**III**
Stretch Factor Value	**0.30%**
Price Cap Index	**0.90%**

Based on the inputs above, the growth factor utilized in the Materiality Threshold Calculation will be determined by:

$$\frac{\text{2017 Board-Approved Distribution Revenues}}{\text{2016 Actual Distribution Revenues}}$$

Notes

Pale green cells represent input cells.

Pale blue cells represent drop-down lists. The applicant should select the appropriate item from the drop-down list.

White cells contain fixed values, automatically generated values or formulae.

OEB policies regarding rate-setting and rebasing following distributor consolidations could allow a distributor to not rebase rates for up to ten years. A distributor could also apply for and receive OEB approval to defer rebasing. If a distributor is under Price Cap IR for more than four years after rebasing and applies for an ICM, this spreadsheet will need to be adapted to accommodate those circumstances. The distributor should contact OEB staff to discuss the circumstances so that a customized model can be provided.

Ontario Energy Board

Capital Module

Applicable to ACM and ICM

Alectra Utilities Corporation - PowerStream Rate Zone

Select the appropriate rate classes as they appear on your most recent Board-Approved Tariff of Rates and Charges, excluding the MicroFit Class.

How many classes are on your most recent Board-Approved Tariff of Rates and Charges? **7**

Select Your Rate Classes from the **Blue Cells** below. Please ensure that a rate class is assigned to **each shaded cell.**

	Rate Class Classification
1	RESIDENTIAL
2	GENERAL SERVICE LESS THAN 50 KW
3	GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION
4	LARGE USE SERVICE CLASSIFICATION
5	UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION
6	SENTINEL LIGHTING
7	STREET LIGHTING

Ontario Energy Board

Capital Module

Applicable to ACM and ICM

Alectra Utilities Corporation - PowerStream Rate Zone

Input the billing determinants and base distribution rates associated with Alectra Utilities Corporation - PowerStream Rate Zone's 2017 Board-Approved Distribution Revenues. Sheets 4 & 5 calculate the NUMERATOR portion of the growth factor calculation.

		2017 Board-Approved Distribution Revenues			2017 Board-Approved Distribution Revenues		
Rate Class	**Units**	**Billed Customers or Connections**	**Billed kWh**	**Billed kW (if applicable)**	**Monthly Service Charge**	**Distribution Volumetric Rate kWh**	**Distribution Volumetric Rate kW**
RESIDENTIAL	$/kWh	331,461	2,689,802,037		18.51	0.0130	0.0000
GENERAL SERVICE LESS THAN 50 KW	$/kWh	32,775	1,031,991,524		28.74	0.0183	0.0000
GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION	$/kW	5,081	4,566,530,904	12,192,632	140.97	0.0000	4.2037
LARGE USE SERVICE CLASSIFICATION	$/kW	2	75,964,677	149,679	6073.68	0.0000	2.2421
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	$/kWh	3,044	14,542,413		8.60	0.0195	0.0000
SENTINEL LIGHTING	$/kWh	207	377,900	975	4.19	0.0000	9.8694
STREET LIGHTING	$/kW	89,729	45,603,291	127,503	1.19	0.0000	6.3222

Ontario Energy Board

Capital Module

Applicable to ACM and ICM

Alectra Utilities Corporation - PowerStream Rate Zone

Calculation of 2017 Revenue Requirement. No input required.

	2017 Board-Approved Distribution Revenues													
Rate Class	**Billed Customers or Connections**	**Billed kWh**	**Billed kW (if applicable)**	**Monthly Service Charge**	**Distribution Volumetric Rate kWh**	**Distribution Volumetric Rate kW**	**Service Charge Revenue**	**Distribution Volumetric Rate Revenue kWh**	**Distribution Volumetric Rate Revenue kW**	**Revenue Requirement from Rates**	**Service Charge % Revenue**	**Distribution Volumetric Rate % Revenue kWh**	**Distribution Volumetric Rate % Revenue kW**	**Total % Revenue**
	A	**B**	**C**	**D**	**E**	**F**	**G = A * D *12**	**H = B * E**	**I = C * F**	**J = G + H + I**	**K = G / J**	**L = H / J**	**M = I / J**	**N = J / R**
RESIDENTIAL	331,461	2,689,802,037		18.51	0.0130	0.0000	73,624,117	34,967,426	0	108,591,544	67.8%	32.2%	0.0%	53.8%
GENERAL SERVICE LESS THAN 50 KW	32,775	1,031,991,524		28.74	0.0183	0.0000	11,303,442	18,885,445	0	30,188,887	37.4%	62.6%	0.0%	15.0%
GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION	5,081	4,566,530,904	12,192,632	140.97	0.0000	4.2037	8,595,223	0	51,254,165	59,849,388	14.4%	0.0%	85.6%	29.7%
LARGE USE SERVICE CLASSIFICATION	2	75,964,677	149,679	6,073.68	0.0000	2.2421	145,768	0	335,595	481,364	30.3%	0.0%	69.7%	0.2%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	3,044	14,542,413		8.60	0.0195	0.0000	314,141	283,577	0	597,718	52.6%	47.4%	0.0%	0.3%
SENTINEL LIGHTING	207	377,900	975	4.19	0.0000	9.8694	10,408	0	9,621	20,029	52.0%	0.0%	48.0%	0.0%
STREET LIGHTING	89,729	45,603,291	127,503	1.19	0.0000	6.3222	1,281,330	0	806,099	2,087,429	61.4%	0.0%	38.6%	1.0%
Total	**462,299**	**8,424,812,745**	**12,470,788**				**95,274,429**	**54,136,448**	**52,405,480**	**201,816,357**				**100.0%**

Ontario Energy Board

Capital Module
Applicable to ACM and ICM

Applicants Rate Base

2017 Board-Approved Distribution Revenues

Average Net Fixed Assets					
Gross Fixed Assets - Re-based Opening	$ 1,183,508,943	A			
Add: CWIP Re-based Opening	$ 57,486,862	B			
Re-based Capital Additions	$ 114,494,289	C			
Re-based Capital Disposals	-$ 2,734,108	D			
Re-based Capital Retirements		E			
Deduct: CWIP Re-based Closing	-$ 39,959,632	F			
Gross Fixed Assets - Re-based Closing	$ 1,312,796,354	G			
Average Gross Fixed Assets			$	1,248,152,649	H = (A + G) / 2
Accumulated Depreciation - Re-based Opening	$ 229,378,962	I			
Re-based Depreciation Expense	$ 52,272,173	J			
Re-based Disposals	-$ 717,703	K			
Re-based Retirements	$ -	L			
Accumulated Depreciation - Re-based Closing	$ 280,933,432	M			
Average Accumulated Depreciation			$	255,156,197	N = (I + M) / 2
Average Net Fixed Assets			**$**	**992,996,452**	O = H - N
Working Capital Allowance					
Working Capital Allowance Base	$ 1,197,449,515	P			
Working Capital Allowance Rate	7.5%	Q			
Working Capital Allowance			**$**	**89,808,714**	R = P * Q
Rate Base			**$**	**1,082,805,165**	S = O + R
Return on Rate Base					
Deemed ShortTerm Debt %	4.00%	T	$	43,312,207	W = S * T
Deemed Long Term Debt %	56.00%	U	$	606,370,893	X = S * U
Deemed Equity %	40.00%	V	$	433,122,066	Y = S * V
Short Term Interest	1.76%	Z	$	762,295	AC = W * Z
Long Term Interest	3.88%	AA	$	23,542,374	AD = X * AA
Return on Equity	8.78%	AB	$	38,028,117	AE = Y * AB
Return on Rate Base			**$**	**62,332,786**	AF = AC + AD + AE
Distribution Expenses					
OM&A Expenses	$ 96,167,243	AG			
Amortization	$ 50,974,104	AH			
Ontario Capital Tax		AI			
Grossed Up PILs	$ 2,745,639	AJ			
Low Voltage		AK			
Transformer Allowance	$ 2,236,782	AL			
		AM			
		AN			
		AO			
			$	**152,123,768**	AP = SUM (AG : AO)
Revenue Offsets					
Specific Service Charges	-$ 3,474,784	AQ			
Late Payment Charges	-$ 2,076,532	AR			
Other Distribution Income	-$ 2,025,296	AS			
Other Income and Deductions	-$ 5,141,699	AT	**-$**	**12,718,312**	AU = SUM (AQ : AT)
Revenue Requirement from Distribution Rates			**$**	**201,738,243**	AV = AF + AP + AU
Rate Classes Revenue					
Rate Classes Revenue - Total (Sheet 5)			$	201,816,357	AW
Difference			-$	78,114	AZ = AV - AW
Difference (Percentage - should be less than 1%)				-0.04%	BA = AZ / AW

Ontario Energy Board

Capital Module

Applicable to ACM and ICM

Alectra Utilities Corporation - PowerStream Rate Zone

Input the billing determinants associated with Alectra Utilities Corporation - PowerStream Rate Zone's 2016 Actual Distribution Revenues. This sheet calculates the DENOMINATOR portion of the growth factor calculation.
Pseudo Revenue Requirement Calculation.

	2016 Actual Distribution Revenues			2017 Base Rates										
Rate Class	Billed Customers or Connections	Billed kWh	Billed kW	Monthly Service Charge	Distribution Volumetric Rate kWh	Distribution Volumetric Rate kW	Service Charge Revenue	Distribution Volumetric Rate Revenue kWh	Distribution Volumetric Rate Revenue kW	Total Revenue By Rate Class	Service Charge % Revenue	Distribution Volumetric Rate % Revenue kWh	Distribution Volumetric Rate % Revenue kW	Total % Revenue
	A	B	C	D	E	F	G = A * D *12	H = B * E	I = C * F	J = G + H + I	$K = G / J_{total}$	$L = H / J_{total}$	$M = I / J_{total}$	$N = J / J_{total}$
RESIDENTIAL	325,741	2,777,974,550		18.51	0.0130	0.0000	72,353,591	36,113,669	0	108,467,260	36.1%	18.0%	0.0%	54.2%
GENERAL SERVICE LESS THAN 50 KW	32,395	1,041,512,339		28.74	0.0183	0.0000	11,172,388	19,059,676	0	30,232,063	5.6%	9.5%	0.0%	15.1%
GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION	4,969	4,592,208,771	11,856,847	140.97	0.0000	4.2037	8,405,759	0	49,842,628	58,248,387	4.2%	0.0%	24.9%	29.1%
LARGE USE SERVICE CLASSIFICATION	2	67,387,072	130,430	6,073.68	0.0000	2.2421	145,768	0	292,437	438,205	0.1%	0.0%	0.1%	0.2%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	2,945	13,692,255		8.60	0.0195	0.0000	303,924	266,999	0	570,923	0.2%	0.1%	0.0%	0.3%
SENTINEL LIGHTING	195	314,360	859	4.19	0.0000	9.8694	9,805	0	8,478	18,282	0.0%	0.0%	0.0%	0.0%
STREET LIGHTING	88,914	52,642,446	146,080	1.19	0.0000	6.3222	1,269,692	0	923,547	2,193,239	0.6%	0.0%	0.5%	1.1%
Total	**455,161**	**8,545,731,793**	**12,134,216**				**93,660,927**	**55,440,344**	**51,067,090**	**200,168,360**				**100.0%**

Ontario Energy Board

Capital Module

Applicable to ACM and ICM

Alectra Utilities Corporation - PowerStream Rate Zone

Current Revenue from Rates

This sheet is used to determine the applicant's most current allocation of revenues (after the most recent revenue to cost ratio adjustment, if applicable) to appropriately allocate the incremental revenue requirement to the classes.

	Most Recent Board-Approved Base Rates			2017 Board-Approved Distribution Revenues										
Rate Class	Monthly Service Charge	Distribution Volumetric Rate kWh	Distribution Volumetric Rate kW	Re-based Billed Customers or Connections	Re-based Billed kWh	Re-based Billed kW	Current Base Service Charge Revenue	Current Base Distribution Volumetric Rate kWh Revenue	Current Base Distribution Volumetric Rate kW Revenue	Total Current Base Revenue	Service Charge % Total Revenue	Distribution Volumetric Rate % Total Revenue	Distribution Volumetric Rate % Total Revenue	Total % Revenue
	A	B	C	D	E	F	G = A * D *12	H = B * E	I = C * F	J = G + H + I	$L = G / J_{total}$	$M = H / J_{total}$	$N = I / J_{total}$	$O = J / J_{total}$
RESIDENTIAL	21.63	0.0088	0.0000	331,461	2,689,802,037		86,034,017	23,670,258	0	109,704,275	42.22%	11.62%	0.00%	53.8%
GENERAL SERVICE LESS THAN 50 KW	29.00	0.0185	0.0000	32,775	1,031,991,524		11,405,173	19,055,414	0	30,460,587	5.60%	9.35%	0.00%	14.9%
GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION	142.24	0.0000	4.2415	5,081	4,566,530,904	12,192,632	8,672,580	0	51,715,453	60,388,033	4.26%	0.00%	25.38%	29.6%
LARGE USE SERVICE CLASSIFICATION	6128.34	0.0000	2.2623	2	75,964,677	149,679	147,080	0	338,616	485,696	0.07%	0.00%	0.17%	0.2%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	8.68	0.0197	0.0000	3,044	14,542,413		316,968	286,129	0	603,097	0.16%	0.14%	0.00%	0.3%
SENTINEL LIGHTING	4.23	0.0000	9.9582	207	377,900	975	10,502	0	9,707	20,209	0.01%	0.00%	0.00%	0.0%
STREET LIGHTING	1.20	0.0000	6.3791	89,729	45,603,291	127,503	1,292,862	0	813,353	2,106,215	0.63%	0.00%	0.40%	1.0%
Total							**107,879,182**	**43,011,801**	**52,877,129**	**203,768,112**				**100.0%**

Ontario Energy Board

Capital Module

Applicable to ACM and ICM

Alectra Utilities Corporation - PowerStream Rate Zone

No Input Required.

Final Threshold Calculation

$$\textbf{\textit{Threshold Value}}\ (\%) = \mathbf{1} + \left[\left(\frac{\boldsymbol{RB}}{\boldsymbol{d}}\right) \times (\boldsymbol{g} + \boldsymbol{PCI} \times (\mathbf{1}+\boldsymbol{g}))\right] \times ((\mathbf{1}+\boldsymbol{g}) \times (\mathbf{1}+\boldsymbol{PCI}))^{\boldsymbol{n}-\mathbf{1}} + \mathbf{10}\%$$

Year		**2019**	
Year in which Applicant is applying		**2**	n
Price Cap Index		**0.90%**	PCI
Growth Factor Calculation			
2017 Board-Approved Distribution Revenues		**$201,816,357**	
2016 Actual Distribution Revenues		**$200,168,360**	
Growth Factor		**0.82%**	g (Note 1)
Dead Band		**10%**	
Average Net Fixed Assets			
Gross Fixed Assets Opening	$	1,183,508,943	
Add: CWIP Opening	$	57,486,862	
Capital Additions	$	114,494,289	
Capital Disposals	-$	2,734,108	
Capital Retirements	$	-	
Deduct: CWIP Closing	-$	39,959,632	
Gross Fixed Assets - Closing	$	1,312,796,354	
Average Gross Fixed Assets	$	1,248,152,649	
Accumulated Depreciation - Opening	$	229,378,962	
Depreciation Expense	$	52,272,173	
Disposals	-$	717,703	
Retirements	$	-	
Accumulated Depreciation - Closing	$	280,933,432	
Average Accumulated Depreciation	$	255,156,197	
Average Net Fixed Assets	$	992,996,452	
Working Capital Allowance			
Working Capital Allowance Base	$	1,197,449,515	
Working Capital Allowance Rate		8%	
Working Capital Allowance	$	89,808,714	
Rate Base	**$**	**1,082,805,165**	RB
Depreciation	**$**	**52,272,173**	d
Threshold Value (varies by Price Cap IR Year subsequent to CoS rebasing)			
Price Cap IR Year 2018		**146%**	
Price Cap IR Year 2019		**146%**	
Price Cap IR Year 2020		**147%**	
Price Cap IR Year 2021		**148%**	
Threshold CAPEX			$Threshold\ Value\ \times d$
Price Cap IR Year 2018	**$**	**76,239,665**	
Price Cap IR Year 2019	**$**	**76,564,006**	
Price Cap IR Year 2020	**$**	**76,893,960**	
Price Cap IR Year 2021	**$**	**77,229,625**	

Note 1: The growth factor g is annualized, depending on the number of years between the numerator and denominator for the calculation. Typically, for ACM review in a cost of service and in the fourth year of Price Cap IR, the ratio is divided by 2 to annualize it. No division is normally required for the first three years under Price Cap IR.

Ontario Energy Board

Capital Module
Applicable to ACM and ICM
Alectra Utilities Corporation - PowerStream Rate Zone

Identify ALL Proposed ACM projects and related CAPEX costs in the relevant years

	Cost of Service Test Year 2017	*Price Cap IR* Year 1 2018	Year 2 2019	Year 3 2020	Year 4 2021
Distribution System Plan CAPEX			$ 102,074,174		
Materiality Threshold		$ 76,239,665	$ 76,564,006	$ 76,893,960	$ 77,229,625
Maximum Eligible Incremental Capital (Forecasted Capex less Threshold)	$ -	$ -	$ 25,510,168	$ -	$ -

Project Descriptions:	**Type**	**Test Year 2017**	**Year 1 2018**	**Year 2 2019**	**Year 3 2020**	**Year 4 2021**	**Total**
Barrie TS Upgrade- Metering and Feeder Relocation				$ 2,100,000			**$ 2,100,000**
Road Authority YRRT Yonge St				$ 13,272,246			**$ 13,272,246**
Bathurst Ave from Hwy 7 to Teston Road - 6 km of OH relocation				$ 5,500,000			**$ 5,500,000**
							$ -
							$ -
							$ -
							$ -
							$ -
							$ -
							$ -
							$ -
							$ -
							$ -
							$ -
							$ -
							$ -
							$ -
							$ -
							$ -
							$ -
Total Cost of ACM Projects		$ -	$ -	$ 20,872,246	$ -	$ -	**$ 20,872,246**
Maximum Allowed Incremental Capital			$ -	$ 20,872,246	$ -	$ -	$ 20,872,246

	Test Year 2017	*Price Cap IR* **Year 1 2018**	**Year 2 2019**	**Year 3 2020**	**Year 4 2021**
Distribution System Plan CAPEX	$ -	$ -	$ 102,074,174	$ -	$ -
Materiality Threshold		$ 76,239,665	$ 76,564,006	$ 76,893,960	$ 77,229,625
Maximum Eligible Incremental Capital (Forecasted Capex less Threshold)	$ -	$ -	$ 25,510,168	$ -	$ -

		Test Year 2017	**Year 1 2018**			**Year 2 2019**			**Year 3 2020**			**Year 4 2021**		
Project Descriptions:	**Type**		**Proposed ACM/ICM**	**Amortization Expense**	**CCA**	**Proposed ACM/ICM**	**Amortization Expense**	**CCA**	**Proposed ACM/ICM**	**Amortization Expense**	**CCA**	**Proposed ACM/ICM**	**Amortization Expense**	**CCA**
Barrie TS Upgrade- Metering and Feeder Relocation			$ -			**$ 2,100,000**	$ 63,000	$ 168,000	$ -			$ -		
Road Authority YRRT Yonge St			$ -			**$ 13,272,246**	$ 308,754	$ 1,061,780	$ -			$ -		
Bathurst Ave from Hwy 7 to Teston Road - 6 km of OH relocation			$ -			**$ 5,500,000**	$ 127,947	$ 440,000	$ -			$ -		
			$ -			$ -			$ -			$ -		
			$ -			$ -			$ -			$ -		
			$ -			$ -			$ -			$ -		
			$ -			$ -			$ -			$ -		
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			$ -			$ -			$ -			$ -		
			$ -			$ -			$ -			$ -		
			$ -			$ -			$ -			$ -		
Total Cost of Projects			$ -	$ -	$ -	$ 20,872,246	$ 499,701	$ 1,669,780	$ -	$ -	$ -	$ -	$ -	$ -

Ontario Energy Board

Capital Module

Applicable to ACM and ICM

Alectra Utilities Corporation - PowerStream Rate Zone

Incremental Capital Adjustment

Current Revenue Requirement

Current Revenue Requirement - Total			$	201,738,243	A

Return on Rate Base

Incremental Capital			$	20,872,246	B
Depreciation Expense			$	499,701	C
Incremental Capital to be included in Rate Base			$	20,372,545	D = B - C
Deemed ShortTerm Debt %	4.0%	E	$	814,902	G = D * E
Deemed Long Term Debt %	56.0%	F	$	11,408,625	H = D * F
Short Term Interest	1.76%	I	$	14,342	K = G * I
Long Term Interest	3.88%	J	$	442,940	L = H * J
Return on Rate Base - Interest			$	457,283	M = K + L
Deemed Equity %	40.00%	N	$	8,149,018	P = D * N
Return on Rate Base -Equity	8.78%	O	$	715,484	Q = P * O
Return on Rate Base - Total			$	1,172,766	R = M + Q

Amortization Expense

Amortization Expense - Incremental		C	$	499,701	S

Grossed up PIL's

Regulatory Taxable Income		O	$	715,484	T
Add Back Amortization Expense		S	$	499,701	U
Deduct CCA			$	1,669,780	V
Incremental Taxable Income			-$	454,595	W = T + U - V
Current Tax Rate	26.5%	X			
PIL's Before Gross Up			-$	120,468	Y = W * X
Incremental Grossed Up PIL's			-$	163,901	Z = Y / (1 - X)

Incremental Revenue Requirement

Return on Rate Base - Total		Q	$	1,172,766	AA
Amortization Expense - Total		S	$	499,701	AB
Incremental Grossed Up PIL's		Z	-$	163,901	AC
Incremental Revenue Requirement			$	1,508,566	AD = AA + AB + AC

Ontario Energy Board

Capital Module

Applicable to ACM and ICM

Alectra Utilities Corporation - PowerStream Rate Zone

Calculation of incremental rate rider. Choose one of the 3 options:

(•) Fixed and Variable Rate Riders ( ) Variable Only Rate Rider ( ) Fixed Only Rate Rider

Rate Class	Service Charge % Revenue	Distribution Volumetric Rate % Revenue kWh	Distribution Volumetric Rate % Revenue kW	Service Charge Revenue	Distribution Volumetric Rate Revenue kWh
	From Sheet 8	*From Sheet 8*	*From Sheet 8*	Col C * Col I_{total}	Col D* Col I_{total}
RESIDENTIAL	42.22%	11.62%	0.00%	636,940	175,239
GENERAL SERVICE LESS THAN 50 KW	5.60%	9.35%	0.00%	84,436	141,074
GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION	4.26%	0.00%	25.38%	64,206	0
LARGE USE SERVICE CLASSIFICATION	0.07%	0.00%	0.17%	1,089	0
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	0.16%	0.14%	0.00%	2,347	2,118
SENTINEL LIGHTING	0.01%	0.00%	0.00%	78	0
STREET LIGHTING	0.63%	0.00%	0.40%	9,572	0
Total	**52.94%**	**21.11%**	**25.95%**	**798,667**	**318,431**

Distribution Volumetric Rate Revenue kW	Total Revenue by Rate Class	Billed Customers or Connections	Billed kWh	Billed kW	Service Charge Rate Rider	Distribution Volumetric Rate kWh Rate Rider	Distribution Volumetric Rate kW Rate Rider
Col E* Col I_{total}		*From Sheet 4*	*From Sheet 4*	*From Sheet 4*	Col F / Col K / 12	Col G / Col L	Col H / Col M
0	812,179	331,461	2,689,802,037		0.20	0.0000	0.0000
0	225,510	32,775	1,031,991,524		0.21	0.0001	0.0000
382,867	447,074	5,081	4,566,530,904	12,192,632	1.05	0.0000	0.0314
2,507	3,596	2	75,964,677	149,679	45.37	0.0000	0.0167
0	4,465	3,044	14,542,413		0.06	0.0001	0.0000
72	150	207	377,900	975	0.03	0.0000	0.0737
6,022	15,593	89,729	45,603,291	127,503	0.01	0.0000	0.0472
391,468	**1,508,566**	**462,299**	**8,424,812,745**	**12,470,788**			
	1,508,566						
	From Sheet 11, E83						

ATTACHMENT 30
2017 ROE (RRR 2.1.5.6)
ALECTRA UTILITIES

Regulated Return on Equity (ROE) - Summary

Regulated Rate of Return on Deemed Equity (ROE)

A distributor shall report, in the form and manner determined by the OEB, the Regulated Return on Equity (ROE) earned in the reporting year.

The reported ROE is to be calculated on the same basis as was used in the distributor's last Cost of Service (CoS).

Inputs by Distributor: Revenue/gain items are to be entered as negative numbers and expense/loss items are to be entered as positive numbers (to align with RRR 2.1.7 trial balance). Please read the RRR Filing Guide for the detailed guidance on the inputs of the form and appendices.

Information from the distributor's last CoS Decision and Order and the successfully submitted RRR 2.1.7 trial balance have been pre-populated in this form. Please review each input for accuracy and contact Industry Relations Enquiry if you have any questions.

Legend

Calculated cell	
Automated/linked cell	
Input cell	

Item	%		Value		Ref	Data source:	USoAs
The CoS Decision and Order EB number for the ROE			EB-2016-0025/EB-2016-0360		xx	CoS Decision and Order (last CoS establishing the current reporting year's base rates)	
Accounting standard used in CoS Decision and Order			MIFRS		yy	CoS Decision and Order	
Regulated net income							
Regulated net income (loss), as per RRR 2.1.7			$77,029,537.60		a	RRR 2.1.7 - USoA 3046 * (-1)	
Adjustment items:							
Non-rate regulated items and other adjustments (Appendix 1)			$13,551,714.09		b	Appendix 1 cell (aq)	**Please provide USoAs**
Unrealized (gains)/losses on interest rate swaps (Not applicable if recorded in Other Comprehensive Income)					c		
Actuarial (gains)/losses on OPEB and/or Pensions not approved by the OEB					d		**Please provide USoAs**
Non-recoverable donations (Appendix 2)			$0.00		e	Appendix 2 cell (be)	
Net interest/carrying charges from DVAs (Appendix 3)			$560,885.60		f	Appendix 3 cell (cc)	
Interest adjustment for deemed debt (Appendix 4)			-$8,602,646.36		g	Appendix 4 cell (dg)	
Adjusted regulated net income before tax adjustments			$82,539,490.93		h=a+b+c+d+e+f+g		
Add back:							
Future/deferred taxes expense			$10,986,040.59		i	RRR 2.1.7 - USoA 6115	
Current income tax expense (Does not include future income tax)			-$469,520.33		j	RRR 2.1.7 - USoA 6110	
Deduct:							
Current income tax expense for regulated ROE purposes (Appendix 6)			$990,617.30		k	Appendix 6 cell (fg)	
Adjusted regulated net income			$92,065,393.88		l=h+i+j-k		
Deemed Equity							
Rate base:							
Cost of power			$2,489,690,903.09		m	RRR 2.1.7 - Sum of USoA 4705 - 4751 inclusive	
Operating expenses before any applicable adjustments			$233,507,336.53		n1	RRR 2.1.7 - Sum of USoA 4505-4640, 4805-5695, 6105, 6205 , 6210, and 6225, then subtract ROE Summary cell (d) and subtract ROE Summary cell (e)	
Other Adjustments:							**Please provide USoAs**
Net Synergy Savings/Transition Costs			$2,032,670.53		n2		*various OM&A*
Adjusted operating expenses			$231,474,666.00		n=n1-n2		
Total Cost of Power and Operating Expenses			$2,721,165,569.09		o=m+n		
Working capital allowance % as approved in the last Decision and Order			10.66%	%	p	CoS Decision and Order	
Total working capital allowance ($)			$290,076,249.66		q=o*p		
PP&E							
Opening balance - regulated PP&E (NBV) (Appendix 5)			$2,376,442,007.70		r	Appendix 5 cell (ec)	
Adjusted closing balance - regulated PP&E (NBV) (Appendix 5)			$2,505,427,987.45		s	Appendix 5 cell (ej)	
Average regulated PP&E			$2,440,934,997.58		t=(r+s)/2		
Total rate base			$2,731,011,247.24		u=q+t		
Regulated deemed short-term debt % and $	4.00%	% v	$109,240,449.89		v1=v*u	Cell (v) from CoS Decision and Order	
Regulated deemed long-term debt % and $	56.00%	% w	$1,529,366,298.45		w1=w*u	Cell (w) from CoS Decision and Order	
Regulated deemed equity % and $	40.00%	% x	$1,092,404,498.90		x1=x*u	Cell (x) from CoS Decision and Order	
Regulated Rate of Return on Deemed Equity (ROE)							
Achieved ROE%			8.43%	%	y= l / x1		
Deemed ROE% from the distributor's last CoS Decision and Order			8.90%	%	z	CoS Decision and Order	
Difference - maximum deadband 3%			-0.47%	%	z1 = y-z		
ROE status for the year (Over-earning/Under-earning/Within 300 basis points deadband)			Within 300 basis points deadband		z2		If the distributor is in an over-earning position as indicated in z2 , please complete Appendices 7 & 8. If the distributor is in an under-earning position as indicated in z2 , please complete Appendices 9 & 10.

ATTACHMENT 31
ICM BUSINESS CASES
POWERSTREAM RZ

Project Name
York Region Rapid Transit (YRRT) VIVA Bus Rapid Transit (BRT) Y2 and H2 Projects

Project Duration
2016-2019

Expected in-service date
Various sections will be energized as the projects progresses throughout 2016-2019.

Category
System Access

Background

This project involves the relocation of overhead and underground distribution assets as required to accommodate YRRT and BRT developments. In its decision related to Alectra's 2018 Electricity Distribution Rate Application and Incremental Capital Funding ("ICM") Application, the OEB approved the YRRT project for ICM funding of $11.24MM, effective May 1, 2018, identifying that "[t]he work is mandatory under the *Public Service Works on Highways Act*[1]".

This investment is required to complete the remaining work on the H2 and Y2 sections for the multiyear project related to the YRRT relocations. All sections related to multi-year YRRT project area illustrated in Figure 2. Alectra Utilities plans to complete the 2019 scope of the H2 and Y2 pertaining to the YRRT relocations; these will be put into service in 2019.

This project addresses the investment need as a result of mandatory relocation of electrical distribution assets to support the Bus Rapid Transit ("BRT") as requested by the York Region Rapid Transit ("YRRT") road authority under the *Public Service Work on Highway Act*.

Since 1971, York Region's population has increased nearly seven fold. Growth projections indicate that by 2041, the region will add 630,000 to the existing population of 1.2 million. In addition to the population growth, employment projections for York Region forecast approximately 325,000 new jobs will be created, which will spur further economic activity and York Region's economy. Most of the forecasted population growth is expected to occur in the southern municipalities of York region namely Richmond Hill, Vaughan and Markham.

The existing regional road network consists of more than 4,100 lane kilometers of urban and rural roads that carry more than six billion vehicle kilometers of travel annually. In order to meet the transportation needs resulting from the forecasted growth, York Region issued a revised Transportation Master Plan ("TMP") in 2016. This plan expands on the 2009 Transportation Master Plan. The TMP maps out the transportation requirements to 2041 and specifically shapes the Rapid Transit outlook for the York Region.

[1] Decision and Order, EB-2017-0024, April 6, 2018

Building on the 2009 TMP, the 2016 TMP proposes further enhancements to the transportation infrastructure and expands on several Rapid Transit corridors per the VIVA Expansion Plan to now include Jane Street, Major Mackenzie Drive and Leslie Street/Don Mills Road in addition to Yonge Street, Highway 7 and David Drive from the original vivaNext Plan.

The major Rapid Transit Corridors that will be in Alectra's (PowerStream RZ) service territory include:

Yonge Street Rapid Transit Corridor
The vivaNext rapidway from Highway 7 to 19th Avenue is currently under construction, with the exception of the historic core of Richmond Hill from Major Mackenzie Drive to Levendale Avenue.

Highway 7 Rapid Transit Corridor
The 2016 TMP proposes the construction of a median rapidway plus six traffic lanes from Helen Street West to Kipling Avenue. The rapidway segment, from Helen Street west to Highway 400, was the first Metrolinx wave funded project. It is scheduled to be completed by 2019. The area east of Highway 400 to Bowes Road is under construction and is being coordinated with the opening of Toronto –York Spadina Subway extension in 2017.

Jane Street
Jane Street is part of the Viva Network Expansion Plan, with curbside stations being constructed between Highway 7 and Major Mackenzie Drive starting in 2018. Jane Street was identified for widening to six lanes in 2009 plan and rapid transit along Jane Street will provide service connections with the Toronto-York Spadina Subway Expansion

Metrolinx and York Region have been constructing BRT Rapidways along various routes in York Region since 2010. Metrolinx is providing the financial funding for these transportation infrastructure projects. The construction and the day-to-day operation of the BRT Rapidways is overseen by York Region Rapid Transit Corporation ("YRRTC").

Due to the project scope, size and complexity, YRRTC has separated the initiative into several sections and phases as illustrated in the project summary in Figure 1.

1) *Highway 7 – Markham, Richmond Hill and Vaughan, Davis Drive –Newmarket (H3.1, H3.2, H3.3, d1 and H2-VMC, 2010-2017)*

2) *Yonge Street – (Y2.1, Y2.2 and Y 3.2, 2010-2018)*

3) *Highway 7 West – Vaughan, West of Commerce, Bathhurst and Centre ,(H2 –West and H2 East 2015-2020)*

4) *Highway 7 East – Markham Centre (H3.4, 2016-2020)*

Figure 1 – Project Summary for Funded YRRTC Projects 2010-2020

	Summary of Currently Funded Capital Projects to 2021				
Summary: Project Descriptions	**Highway 7 – Markham, Richmond Hill and Vaughan Davis Drive - Newmarket [H3.1, H3.2, H3.3, D1 and H2-VMC] 2010-2017**	**Yonge Street [Y2.1, Y2.2, Y3.2] 2014-2018**	**Highway 7 West - Vaughan West of Commerce, Bathurst & Centre H2-West and H2-East [Phase 2] 2015-2020**	**Highway 7 East-Markham Centre [H3.4] 2016-2020**	**Facilities & Terminals 2012-2021**
Key Partners	- Metrolinx - York Region and local municipalities - Kiewit-EllisDon - VRRTC/YC2002 – 10 year partnership	- Metrolinx - York Region and local municipalities - RapidLINK Constructors	- Metrolinx - York Region and local municipalities - Infrastructure Ontario - EDCO	- Metrolinx - York Region and local municipalities - Contract award to third party - TBD	- Federal Government - York Region and local municipalities - TYSSE - Individual contracts per facility – PCL, SmartREIT and TBD
Procurement / Legal Arrangements	- Design Build Contract - Metrolinx Master Agreement - Project Charters - Rapid Transit Agreement with York Region - York Region Access and Operating Agreement with Metrolinx - Project Implementation Plan	- Public procurement - Design Build Contract - Metrolinx Master Agreement - Project Charter - Rapid Transit Agreement with York Region - York Region Operating Agreement with Metrolinx - Project Implementation Plan	- Public Procurement / Alternative Finance Procurement [AFP] - Metrolinx Master Agreement - Project Charter - Project Agreement - Rapid Transit Agreement with York Region - Project Implementation Plan - York Region Operating Agreement with Metrolinx	- Public procurement - Contract arrangements tbd - York Region Operating Agreement with Metrolinx	- CSIC - Federal Contribution Agreement[s] - Design Build/ Bid Build Agreements - TBD - Provincial Quick Wins - Tri-party Access and Service Agreements
Governance	- VRRTC Board/Metrolinx Board - Metrolinx Program Executive Group/Senior Staff Working Group - Joint coordination meetings with contractor and project management teams	- YRRTC Board/Metrolinx Board - Metrolinx Program Executive Group/Senior Staff Working Group - Joint coordination meeting with contractor and project management team	- YRRTC Board/Metrolinx Board - Metrolinx Program Executive Group/Senior Staff Working Group - Joint Project Committee - Project Management Team - Works Committee - meetings with contractor and project management teams	- VRRTC Board/Metrolinx Board - Metrolinx Program Executive Group/Senior Staff Working Group - Unionville mobility hub working group	- YRRTC Board - York Region - Federal Management Committee - TYSSE
Delivery Agent	- VRRTC	- YRRTC	- Infrastructure Ontario: Procurement Advisor - YRRTC	- YRRTC	- YRRTC
Project Completion	- Construction complete 2017 - Project and program close out	- Construction complete 2018 - Project and program close out	- Construction complete 2019 - Project and program close out	- Construction complete 2020 - Project and program close out	- Construction complete 2021 - Project and program closeout

In order to accommodate the development of this transportation infrastructure, Alectra is required to relocate a significant amount of both overhead and underground plant, including express 27.6kV feeders that have been identified as posing a conflict to the construction of the rapidway.

Since 2010, the PowerStream RZ has been relocating overhead and underground plant to accommodate road widening and shifting of the boulevard to support the YRRT build. The following are details of the work completed to date:

1) H3.2: Highway 7, East of Bayview Ave to West of Warden Avenue
2) H2 VMC: Highway 7, West of Edgeley Boulevard to East of Bowes Road in Vaughan
3) H2 West: Sections along Highway 7, Helen Street East of Highway 400 in Vaughan
4) H2 East: Sections on Centre Street from Highway 7 to Bathurst Street, on Bathurst Street from Centre Street to Highway 7 in Vaughan, Highway 7 from Bathurst Street to Yonge Street in Richmond Hill
5) Y2.2: Sections on Yonge Street from 19th Avenue to Levendale Road
6) Y2.1: Sections on Yonge Street from Major Mackenzie Drive to Highway 407 in Richmond Hill,

The timelines for the project are dictated by the YRRTC in conjunction with the project contractors RapidLink and the joint venture of EllisDon Capital Inc. and Coco Paving Inc. ("EDCO").

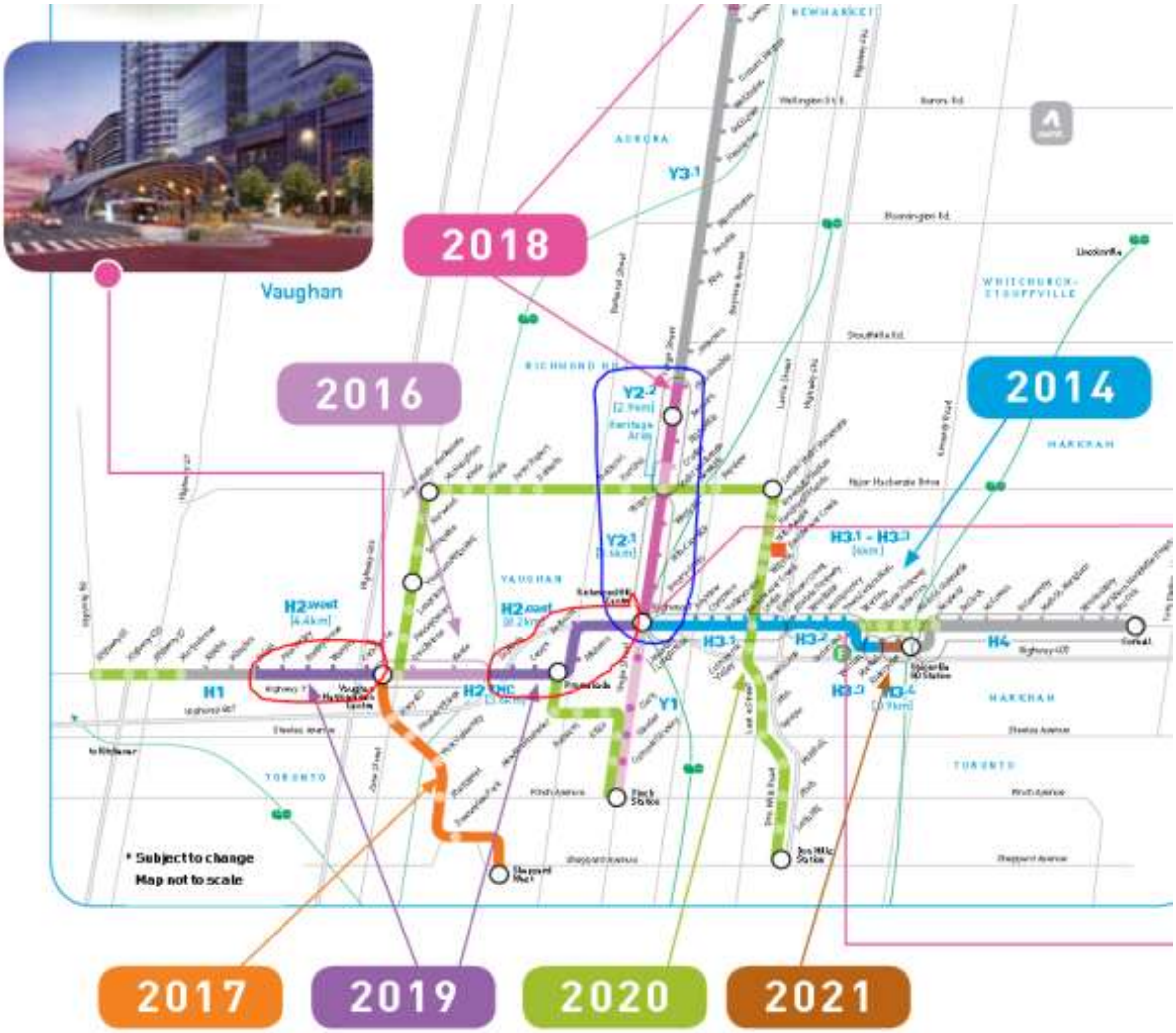
<u>Scope</u>

The current BRT Rapidways phases under construction are Y2 and H2, as illustrated in Figure 2.

The Y2 project is illustrated and outlined in blue. The Y2 consists of two project sections along Yonge Street referred to as Y2.1 (from Highway 7 to Major Mackenzie Drive) and Y2.2 (from Levendale Road to 19th Avenue) totaling to approximately 6.5 km of BRT Rapidway. The contract for this project, valued at approximately $260MM, was awarded by YRRTC to Rapid Link. The Y2 project is structured as a Design-Build initiative.

The H2 project is illustrated and outlined in red. The H2 consists of two project sections H2-West and H2-East totaling approximately 8.5 km of BRT Rapidway. The contract for this project, valued at approximately $ 330MM, was awarded by YRRTC to EDCO. The H2 project is being done through Alternative Financing and Procurement (AFP) structure as a Design-Build-Finance project. Figure 2 illustrates the BRT route and the proposed construction schedule.

Figure 2 – BRT Rapidways Project



The Y2 and H2 rapidway projects are located on major streets, with significant overhead, as well as underground distribution system plant including express 27.6kV feeders, which pose a conflict to construction of the rapidways.

Based on known designs and plans, Alectra has assessed the scope of the required relocation work which involves both overhead and underground relocations, as well as Joint-Use Trench ("JUT") to accommodate road widening and shifting of the boulevard. Table 1 and Table 2 provide the high level hydro relocation scope necessary to facilitate the construction of the rapidway.

Table 1 – Detailed Work for Y2

Phase/Stage	Description	Work	Length of Underground Alignment	Length of 1000 MCM CU	Length of 350 MCM CU	Number of Switchgear
Y2.1						
Stage 4	Yonge St- West Side - Baif Blvd. to Major MacKenzie Dr. W.	Concrete Encased Ductbank Installation, Cable Installation and Final Terminations/Cutovers	1430m	16830m	5610m	4
Stage 5,6	Yonge St- East Side - High Tech Blvd. to 16th Ave.	Final Terminations/Cutovers	1340m	9450m	3150m	0
Stage 7,8	Yonge St- East Side - 16th Ave. to Major MacKenzie Dr. E.	Concrete Encased Ductbank Installation, Cable Installation and Final Terminations/Cutovers	2000m	14370m	4790m	5

Phase/Stage	Description	Work	Length of Underground Alignment	Length of 1000 MCM CU	Length of 350 MCM CU	Number of Switchgear
Y2.2						
Stage 7,8,9	Yonge St- East Side - South of Devonsleigh Blvd. to 19th Ave.	Cable Installation and Final Terminations/Cutovers	775m	4725m	875m	2

Y2.1 from a construction standpoint has been staged in three sections (stages 4, 5&6, 7&8) as outlined in Table 1.

Y2.2 from a construction standpoint has been staged in one section (stages 7, 8 and 9) which includes relocation work on Yonge Street East from South of Devonsleigh Boulevard to 19th Avenue.

The Y2.1 and Y2.2 project is being constructed under a Design – Build project structure. There are uncertainties in regards to the timelines, final road alignment, resource allocation as well as the technical challenges as the majority of work is underground. The Y2.1 and Y2.2 began in 2018 and will continue in 2019.

Table 2 – Detailed Work for H2

H2-East								
Phase/Stage	Description	Work	Number of Poles	Number of LIS	Length of Underground Alignment	Length of 1000 MCM CU	Length of 2/0 AL	Number of poles where neutral is to be raised
Phase 3B and 3C	along Bathurst, from Flamingo to North End of Project	Installation of poles including OH equipments, Cable Insallation and Final Terminations/Cutovers, Neutral Raising along	41	3	57m	0m	171m	50
Phase 4	along Centre, from New Westminster to Concord	Installation of poles including OH equipments, Cable Insallation and Final Terminations/Cutovers	4	0	10m	0m	30m	0
Phase 5	along Centre, from Concord to West of Dufferin	Installation of poles including OH equipments, Cable Installation and Final Terminations/Cutovers	22	6	180m	0m	540m	0

H2-West								
Phase/Stage	Description	Work	Number of Poles	Number of LIS	Length of Underground Alignment	Length of 1000 MCM CU	Length of 2/0 AL	Number of Switchgear
Phase 2	along Hwy 7, from C1 to Aberdeen	Installation of poles including OH equipments,Cable Installation and Final Terminations/Cutovers	6	1	40m	0m	120m	0
Phase 3	along Weston Road	Installation of poles, concrete encased ductbank, and switchgears	8	0	400m	2400m	0m	2
Phase 4 & 5	along Hwy 7, Nova Star to West of Edgeley	Installation of poles, 4-bore shot crossing Hwy 400	29	8	360m	2160m	0m	2
Phase 6	along Hwy 7, C1 to West End of Project	Installation of poles including OH equipments, Cable Installation and Final Terminations/Cutovers	24	0	280m	0m	840m	0m

H2 East from a construction standpoint has been staged in three stages (Phase 3B & 3C, Phase 4 and Phase 5) as outlined in Table 2.

H2 West from a construction standpoint has been staged in four stages (Phase 2, Phase 3, Phase 4 & 5 and Phase 6) as outlined in Table 2. It is expected that majority of the work for the H2 will be completed in 2018 and small portion will be left to be completed in 2019.

Options Considered

Alectra is obligated to relocate the Distribution plant to facilitate expansion of the roads and transportation infrastructure. This project is deemed mandatory under the PSWHA.

Financial Impact

Table 3 provides the forecasted in-service expenditures from 2018 to 2019, based on the scope of relocation work as determined from firm designs and construction timelines received from YRRT as well as the project contractors, RapidLink and EDCO.

Table 3 – 2018/2019 In-service Capital Additions for the YRRT Project Y2 and H2 Sections

Y2 Section		
	2018 ($000)	2019 ($ 000)
Gross	12,700	24,172
Contributed	6,350	12,086
Net	**6,350**	**12,086**

H2 Section		
	2018 ($000)	2019 ($000)
Gross	12,713	3,680
Contributed	7,820	2,494
Net	**4,893**	**1,186**

Total YRRT		
	2018 ($000)	2019 ($000)
Gross	$25,413	$27,853
Contributed	$14,170	$14,581
Net	**$11,243**	**$13,272**

Alectra's is confident that this scope of work will be completed in 2019 based on availability of completed designs, established contractors and resources as well as demand from YRRTC to complete the work. Alectra identifies that any variance in this project will be addressed through a project-specific ICM true-up mechanism.

Project Name

Barrie TS Upgrade Feeder and Wholesale Metering Relocation

Project Duration
2019

Expected in-service date
12/31/2019

Category
System Service

Summary

As part of regional planning, led by the Independent Electricity System Operator ("IESO") for the South Georgian Bay/Muskoka planning region, the need to renew and rebuild the Barrie Transmission Station ("TS") was identified. The Barrie TS station renewal is required as the equipment (i.e., power transformers, 44kV switchgear, circuit breakers, disconnect switches and ancillary station equipment) have reached end-of-life. Barrie TS is owned and operated by Hydro One Networks Inc. ("Hydro One"). Hydro One is scheduled to undertake the station rebuild in 2019. As a result of the station rebuild, Alectra is required to relocate six feeders that service Alectra customers in the City of Barrie, along with the corresponding wholesale revenue metering equipment required for compliance with the IESO Market Rules. This work is required to be completed in 2019, in conjunction and coordination another local distribution company ("LDC") also serviced by Barrie TS, and with Hydro One's station rebuild.

Background

As part of regional planning work, Hydro One initiated a Needs Screening process for the South Georgian Bay/Muskoka planning region in 2014. The South Georgian Bay/Muskoka Needs Screening study team determined that there was a need for coordinated regional planning, resulting in the initiation of the Scoping Assessment process with the IESO.

The South Georgian Bay/Muskoka Scoping Assessment Outcome Report was filed in June 2015 and identified two sub-regions for coordinated regional planning: Barrie/Innisfil and Parry Sound/Muskoka. The two sub-regions are shown in Figure 1, below.

Figure 1 – Barrie/Innisfil and Parry Sound/Muskoka IRRP Sub-Regions

The process to develop the Barrie/Innisfil Integrated Regional Resource Plan ("IRRP") was initiated in 2015. The IESO Scoping Assessment Report included a recommendation that the needs identified in the Barrie/Innisfil Sub-region be further explored to ensure transmission and distribution supply adequacy, sustainment of assets (including the asset at the Barrie TS which were reaching end-of-life) and the potential for coordinated solutions.

In 2015, Hydro One Transmission identified sustainment needs at Barrie TS driven by the 115/44 kV station transformers reaching end-of-life, along with the 44 kV switchgear, circuit breakers, disconnect switches and other station equipment.

Barrie TS was placed in-service in 1962. The 44 kV switchyard assets at Barrie TS have been identified by Hydro One as being in need of replacement in the near term. Barrie TS is currently supplied by the 230/115 kV autotransformers at Essa TS via the Essa 115 kV switchyard and 115 kV circuits E3/4B. These assets were built in the 1950s; many of them have already exceeded their expected life and are in need of replacement in the near and medium term.

Figure 2 – Map of Barrie/Innisfil IRRP Region

The timing and replacement options for Barrie TS were discussed among the IRRP Working Group members. It was determined that based on the existing and forecast station demand, that Barrie TS and E3/4B should be rebuilt to 230 kV, with 75/125 MVA 230/44 kV rated transformers. The end-of-life replacement of Barrie TS will also add approximately 50 MW of incremental supply capacity to serve the south Barrie and Innisfil area. Additional information on the IRRP outcomes can be found on IESO regional planning site.[1]

The IRRP Working Group recommended that Hydro One proceed with the project consisting of rebuilding the Barrie TS and upgrading the capacity from 55/92 MVA to 75/125MVA as well as upgrading the E3/4B transmission line from 115KV to 230KV. Construction to renew Barrie TS is expected to begin in February 2019. A hand off letter was issued by IESO to Hydro One in December 2015 to begin development of a project to replace the existing Barrie TS and the E3/4B transmission line with a new 230KV Infrastructure.

The details of the letter can be found on the IESO regional planning site.[2] Further, Alectra confirmed with Hydro One that this project was included in Hydro One's 2017-2018 Transmission Rate Application (EB-2016-0160) and is proceeding, as planned.

Currently, all seven existing 44 kV feeder positions available at Barrie TS have been allocated to the LDCs. Six of these feeders are used to supply Alectra customers and one is used to

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[1] http://www.ieso.ca/barrie-innisfil

[2] http://www.ieso.ca/-/media/files/ieso/document-library/regional-planning/barrie-innisfil/barrie-innisfil_ieso-letter-to-hydroone-20151207.pdf?la=en

supply customers of another LDC. The updated Barrie TS will have six feeders allocated to supply Alectra and two feeders for the other LDC customers.

As per the Hydro One plan, the new station will be constructed west of the existing station, thereby expanding the fenced area westward. Hydro One will also move the station egress westward and include an additional feeder for the other LDC. The feeder egress relocation and additional feeder will require integration reconfiguration for the six Alectra feeders emanating from the station. Alectra will need to relocate the existing feeders, 13M3 to 13M8, to match with the breaker line up of the new station, while ensuring that there are no conflicts with the other LDC circuits. An additional conflict with Alectra's 23M24 Midhurst TS feeder, which is currently routed along the west side of the Barrie TS property, has also been identified and will require relocation.

With the rebuilding of the Barrie TS, Alectra is also responsible for the installation of revenue metering equipment at Barrie TS, as per Schedule 4 of the Hydro One Customer Wholesale Revenue Metering Agreement and Chapter 6 of the IESO Market Rules. The existing Barrie TS utilizes bus metering. Hydro One has presented Alectra with the option to either contribute 100% capital towards the bus metering, or utilize Alectra-owned Primary Metering Enclosures ("PME"). After evaluation of options, Alectra determined that primary metering enclosures are preferable due to the lower cost and ease of access.

Scope

Hydro One will also be moving the station egress westward and adding an additional feeder. As a result, the feeder designations will change to 13M1-13M2 for the other LDC and 13M3-13M8 for Alectra.

The feeder integration will have the two other LDC circuits proceeding west from the station along Tiffin Street. Alectra will need to relocate feeders 13M3-13M8 to match the breaker line up for the upgraded station, while avoiding crossing the 13M1 and 13M2 circuits.

Alectra will need to relocate the existing Midhurst feeder 23M24, which goes along the west side of Barrie TS, to accommodate the westward expansion of the upgraded station. The 23M24 will be relocated to the east side of Barrie TS for integration on Tiffin Street, as per Figure 3.

Figure 3 – 23M24 Routing

In addition to the feeder reconfiguration, Alectra is responsible for upgrading the revenue metering equipment at Barrie TS as per Schedule 4 of the Hydro One Customer Wholesale Revenue Metering Agreement, as identified above. Alectra will install six primary metering enclosures (PME), two element delta metering and associated communication, protection and switching.

<u>Options Considered</u>

The following options were considered for the upgraded Barrie TS:

Option 1: *Status Quo* - Maintain existing station feeder integration and Metering

The existing feeder integration at Barrie TS cannot be accommodated with the upgraded station, since Hydro One will be moving the station egress westward. The new westerly routing of the new 44KV feeder to the other LDC poses a conflict with the existing 23M24 circuit and will need to be relocated.

Option 2: Relocate Feeder and Utilize Station Bus Wholesale Metering

This option involves relocating seven feeders (13M3-13M8, 23M24) to align with the new breaker line-up as well as installation of station bus metering at the new station yard at Barrie TS.

As per Schedule 4 of the Hydro One Customer Wholesale Revenue Metering Agreement, Alectra is responsible for upgrading the revenue metering equipment at Barrie TS. The two possible revenue metering options are; (i) station bus metering, or; (ii) utility feeder metering using PME's.

Alectra has noted accessibility issues with the existing station bus metering at Barrie TS. In addition, installation of bus metering is a determined to be more expensive solution than feeder metering utilizing primary metering enclosures.

The total cost for the option of relocating seven feeders and installing bus metering is $2.59MM.

Option 3: Relocate Feeder and Utilize Feeder Wholesale Metering

This option involves relocating seven feeders (13M3-13M8, 23M24) to align with the new breaker line-up as well as installation of feeder metering utilizing primary metering enclosures (PMEs) at the new station yard at Barrie TS.

The installation of feeder metering using PMEs is more economical and will address the access constraints associated with the bus metering. The total cost for this option is $2.10MM.

Recommended Solution:

The recommended option must ensure that Hydro One is able to complete the construction of the upgraded Barrie TS. Additionally, the recommended option must ensure Alectra is able to maintain access and safely operate feeders and revenue metering.

The recommended solution is Option 3, which consists of relocating seven feeders (Midhurst 23M24 to the east side of the Barrie TS for integration on Tiffin Street, relocating six feeders 13M3-13M8) to match the breaker line up for the upgraded station, and installation of feeder metering utilizing PMEs for wholesale metering. The recommended option is more cost effective and solves the access issues associated with the bus metering and is a more cost effective.

Financial Impact

Total budget for the project is $2.1MM. The project budget includes the relocation of the Midhurst 23M24 feeder, the reconfiguration of the 13M3-13M8 feeders and the installation of feeder metering utilizing PMEs.

Table 1 – Project Budget 2019

Expenditure	Capital Expenditure ($000)
Feeder Material	609
Metering Material	353
Labour + Trucking	1,136
Total	**2,098**

Project Name
Bathurst Street Road Widening from Highway 7 to Teston Road

Project Duration
2019

Expected in-service date
12/31/2019

Category
System Access

Summary

This project addresses the investment need, as a result of the mandatory relocation of electrical distribution assets on Bathurst Street, as requested by the road authority under the *Public Service Work on Highway Act* ("PSWHA").

Background

Alectra installs the majority of its electrical distribution infrastructure in Vaughan along road rights of way, that are owned and managed by the City of Vaughan and the Regional Municipality of York. Alectra's distribution equipment occupies these road allowances at no cost. In exchange, Alectra is obligated to remove, relocate, or reconstruct its facilities, in order to accommodate the specific requirements of the road authorities. The road authorities' road works program drives plant relocation scope and timing. Relocation of assets to accommodate road work impacts both overhead and underground distribution plant. Alectra remains compliant with the PSWHA, in regards to regulatory obligations and recovery of capital contributions. As per the PSWHA, Alectra recovers capital contributions related to 50% of expenditures from labour and labour saving device costs.

Timelines for the execution of the road works at Bathurst Street from Highway 7 to Teston Road are determined by Regional Municipality of York.

Through active participation in meetings with the City of Vaughan, Town of Richmond Hill and the Region Municipality of York, Alectra monitors road work planning and schedules road widening projects according to the most recent project developments and requests from the road authority. Alectra also monitors the progress of environmental assessments, site plans and zoning amendments to ensure that plans and schedules reflect the timing and pacing of the investments needed. System access investments related to road work are estimated through scope derived from preliminary designs and historical spending from similar projects. It includes consideration of previous phases of multi-year road work projects, as well as continuous meetings and discussions with the road authority.

Scope

To expand the transportation system, in order to accommodate growth and increased travel demands resulting from development in Richmond Hill and Vaughan, the Regional Municipality of York is widening Bathurst Street from Highway 7 to Teston Road from four to six lanes, as well as including Transit-High Occupancy Vehicle ("HOV") lanes and off-street cycling facilities. The length of the road widening is approximately 6km in the City of Vaughan and Town of Richmond Hill. The 2019 scope of the relocation of Alectra assets includes both overhead distribution system (i.e., approximately 121 poles), as well as underground distribution system assets.

Options Considered

The following options were considered for the upgraded Bathurst Street road widening project:

Option 1: *Status Quo*

This is a mandatory investment. Not proceeding with this project would be in direct violation of the PSWHA and Section 3.4 of the Distribution System Code.

Option 2: Installation of underground feeder cables in place of an overhead system.

Alectra examined the option of replacing the overhead system with underground feeders. The benefit of undergrounding an overhead system includes protection from elements such as weather related events, animal contacts and collisions from vehicles. However, the option to underground the distribution system was estimated to cost between $25MM and $35MM and was determined to be uneconomical, relative to relocating the overhead system. In Alectra's Customer Engagement activity related to the ICM application, Alectra customers in the PowerStream rate zone ("PRZ") provided their preferences for the Bathurst road widening project. All three of the business groups indicated a preference to proceed with the project in the current configuration of overhead and underground system. The preference identified by residential customers was divided; 46% of the customers preferred the current mix, as compared to 45% of the customers that preferred a full underground system with higher rate impact. The PRZ Customer Engagement report is included as attachment 34.

Option 3: Relocate Overhead and Underground Assets Based on the Current Configuration

Alectra will comply with the PSWHA and work with the Regional Municipality of York, the City of Vaughan and Town of Richmond Hill to relocate plant in a safe, cost effective manner.

The total investment expenditure required in 2019 to address this need is $7.5MM less capital contributions of $2.0MM for a net expenditure of $5.5MM. The scope includes the installation of new poles, transfer of conductor to the new poles and removal of old poles on the overhead portion and relocation of the underground cables. The 2019 scope will be constructed and put in service in 2019.

Recommended Solution:

Option 3 -Relocate Overhead and Underground Assets based on current configuration.
Road Projects are a mandatory obligation under the DSC, Section 3.4. – Relocation of Plant that requires Alectra to address the relocation of its assets when requested by a road authority.

- Regulatory / Public Policy Responsiveness - Alectra is obligated to relocate assets in order to meet its regulatory obligations to the Regional Municipality of York.
- Reputational Risk – The execution of requests to move assets ensures that Alectra is not held responsible for delaying projects undertaken by the road authorities.

If this project is not approved, this mandatory work will still need to be completed to comply with the DSC and PSWHA. A reassessment of other planned discretionary projects would need to be completed to determine the potential project deferrals that would be required to fund this work.

Financial Impact

This multiyear project has a total net estimated cost of \$12.5MM with capital contribution of \$4.2MM resulting in a net expenditure of \$8.3MM.

Table 1 – Net Capital Expenditures

Net Capital Expenditures ($000)	2019	2020
Bathurst Road Widening	5,500	2,800

The total investment expenditure in 2019 required to address this need is \$7.5MM less capital contributions of \$2.0MM for a net expenditure of \$5.5MM as outlined in Table-2. The 2019 project scope will be completed and in-service by the fourth quarter of 2019.

Table 2 – 2019 Project Scope Budget- Bathurst Road Widening

Expenditure	Capital Expenditure ($000)
Material	3,500
Labour + Trucking	4,000
Capital Contribution	(2,000)
Total	**5,500**

ATTACHMENT 32
ICM REVENUE REQUIREMENT BY PROJECT
POWERSTREAM RZ

Alectra Utilities - PowerStream Rate Zone
2019 ICM Revenue Requirement by Project

Project Description	Return on Rate base	Amortization	Incremental Grossed Up PILs	Total Revenue Requirement
Road Authority YRRT Yonge St	$746,257	$308,753	($107,351)	$947,659
Bathurst Ave from Hwy 7 to Teston Road	$309,248	$127,947	($44,486)	$392,709
System Access				**$1,340,368**
Barrie TS Upgrade- Metering and Feeder Relocation	$117,262	$63,000	($12,064)	$168,198
System Service				**$168,198**
Total Incremental Revenue Requirement				**$1,508,566**

ATTACHMENT 33
2019 CAPITAL SPENDING BY PROJECT
POWERSTREAM RZ

SYSTEM ACCESS	$000s
Bathurst Road Widening	5,500
New Commercial Subdivision Development - SOUTH	1,000
New Residential Subdivision Development - NORTH	2,558
New Residential Subdivision Development - SOUTH	7,453
New Subdivision Development - Secondary Service Lateral - SOUTH	1,827
Residential Meter "ICON F" Meter Replacement Program	2,280
Road Authority Expenditure PS North	1,328
Road Authority Expenditure PS South	7,009
Road Authority YRRT Yonge St - H2 portion	3,210
Sub-Total Material Projects	**32,165**
Miscellaneous Projects (under materiality threshold)	6,364
Total System Access	**38,529**
SYSTEM RENEWAL	
4-Circuit Pole Storm Hardening	1,686
Cable Injection - (V01) - Yonge - Steeles - Bathurst - Center	1,313
Cable Injection - (V37) - Langstaff and Weston	1,564
Cable Replacement – (V08) - Steeles Ave and New Westminster	2,464
Cable Replacement Projects	2,242
Pad Mount Transformer Replacement	1,029
Pole Replacement Program	3,915
Radial Supply Remediation/Conversion - 13.8 kV to 27.6 kV on Miller Ave	1,535
Rear Lot Supply Remediation - Royal Orchard - North	2,353
Storm damage - Replacement of distribution equipment due to storm	1,035
Switchgear Replacement Program	2,171
Switchgears - Unscheduled Replacement	1,703
Unforeseen Projects Initiated by Alectra Utilities	1,077
Unscheduled Replacement of Failed Equipment	5,205
Sub-Total Material Projects	**29,292**
Miscellaneous Projects (under materiality threshold)	8,711
Total System Renewal	**38,003**
SYSTEM SERVICE	
Barrie TS Upgrade - Feeders and Metering	2,100
Distribution Automation Switches / Reclosers	1,471
Install Two 27.6kV Ccts on 16th Ave from Hwy 404 to Woodbine Ave	1,119
Install two additional 27.6 kV ccts on Hwy 7 from Jane St to Weston Rd	2,377
Sub-Total Material Projects	**7,067**
Miscellaneous Projects (under materiality threshold)	9,978
Total System Service	**17,044**
GENERAL PLANT	
PowerStream Rate Zone Allocation of General Plant	8,498
Total General Plant	**8,498**
2019 Budget	**102,074**

2019 Budget Capital Project Listing - General Plant Alectra

GENERAL PLANT - ALECTRA UTILITIES	
Bucket Trucks & RBDs	1,540
CIS Modifications (Regulatory Enhancements)	1,519
Smart Grid - Other	1,337
Tools, Shop and Garage Equipment	1,185
Sub-Total Material Projects	**5,582**
Miscellaneous Projects (under materiality threshold)	16,529
Total General Plant	**22,111**

ATTACHMENT 34
INNOVATIVE CUSTOMER ENGAGEMENT REPORT
POWERSTREAM RZ

Customer Engagement

2019 ICM Rate Application

Incremental Capital Module (ICM)

May 29, 2018

Prepared for:

Alectra Utilities
2185 Derry Road West
Mississauga, Ontario
L5N 7A6

Customer Engagement Report

May 29, 2018

Confidentiality

This Report and all of the information and data contained within it may not be released, shared or otherwise disclosed to any other party, without the prior, written consent of Alectra Utilities Corporation ("Alectra Utilities").

Acknowledgement

This report has been prepared by Innovative Research Group Inc. ("INNOVATIVE") for Alectra Utilities. The conclusions drawn, and opinions expressed are those of the authors.

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Executive Summary

Alectra Utilities Corporation (Alectra Utilities) has engaged Innovative Research Group Inc. (INNOVATIVE) to assist in meeting Alectra Utilities' customer engagement commitments under the Renewed Regulatory Framework for Electricity Distributors.

Alectra Utilities has capital investment requirements for the **Enersource** and **PowerStream** rate zones for 2019 that are not funded through existing distribution rates. To meet the capital investment needs in each of these rate zones, Alectra Utilities plans to submit an Incremental Capital Module (ICM) application to the Ontario Energy Board (OEB). The outcome of this application will determine Alectra Utilities' electricity distribution rates in each rate zone for 2019 and will help set the pace for capital investments.

Alectra Utilities engages customers in a wide variety of ongoing customer service and market research activities that help inform its customer service efforts. INNOVATIVE has been tasked with supplementing these efforts with activities focused on bringing customers' needs and preferences regarding outcomes and trade-offs into Alectra's planning process.

In approaching the design of this round of engagement, INNOVATIVE and Alectra Utilities considered the comprehensive nature of the utility's previous 2017 customer engagement. That effort included a voluntary online workbook, completed by 17,595 customers, and randomly recruited focus groups, leading up to random digit dialing customer telephone surveys. While the earlier engagement provided a strong base of knowledge about customers general views on ICM projects, the specific nature of projects being considered required a new engagement.

Alectra also needed to collect customer feedback to provide input to the start of Alectra Utilities' first consolidated Distribution Service Plan for the period covering 2020 to 2024.

INNOVATIVE's view is the two tasks work well within a single engagement as the DSP components help customers to ground their views on the ICM within the broader context of Alectra's services and rates while minimizing the demands Alectra Utilities is placing on customers.

Key Findings

Customer Needs

The clear majority of Alectra Utilities' customers in the PowerStream and Enersource rate zones are satisfied with the current service they receive. When asked how Alectra Utilities can improve service, top responses were either "nothing" or "lower rates".

Enersource RZ Core Measures	Residential		Small Business		Mid-Market		Large Use	
	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018
Overall Satisfaction	79%	**86%**	82%	**83%**	78%	**88%**	6/7	**7/9**
Awareness of Merger	41%	**61%**	60%	**67%**	58%	**65%**	5/7	**9/9**
Familiarity with Enersource	84%	**85%**	84%	**82%**	88%	**88%**	7/7	**9/9**

PowerStream RZ Core Measures	Residential		Small Business		Mid-Market		Large Use	
	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018
Overall Satisfaction	79%	**83%**	73%	**83%**	77%	**80%**	N/A	**11 of 13**
Awareness of Merger	52%	**69%**	48%	**73%**	55%	**69%**	N/A	**13 of 13**
Familiarity with PowerStream	85%	**82%**	83%	**80%**	89%	**88%**	N/A	**13 of 13**

Customer Priorities

The top two priorities for Alectra Utilities as identified by the three smaller customer classes in both the Enersource and PowerStream rate zones are:

1. Delivering reasonable distribution rates; and
2. Ensuring reliable electrical service;

These are also the top two priorities for large use customers, but in both the Enersource and PowerStream rate zones, these customers rank reliability over price.

Residential and GS<50kW customers in both rate zones rank minimizing the impact on the environment as their third priority. GS>50kW customers in both rate zones and PowerStream's large use customers place helping customers to reduce or manage consumption as their third priority. Enersource large use customers are focused on safety as their third priority.

Enersource RZ Priorities	Residential		Small Business		Mid-Market		Large Use	
	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018
1st	Prices	**Prices**	Prices	**Prices**	Prices	**Prices**	Reliability	**Reliability**
2nd	Reliability	**Reliability**	Reliability	**Reliability**	Reliability	**Reliability**	Behind the meter solutions	**Prices**
3rd	Reduce/ Manage consumption	**Minimizing impact on the environment**	Reduce/ Manage consumption	**Minimizing impact on the environment**	Reduce/ Manage consumption	**Reduce/ Manage consumption**	Extreme weather mitigation	**Safety***

* **Option not offered in 2017**: "Ensuring the safety of electricity infrastructure"

PowerStream RZ Priorities	Residential		Small Business		Mid-Market		Large Use	
	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018	May 2017	May 2018
1st	Prices	**Prices**	Prices	**Prices**	Prices	**Prices**	N/A	**Reliability**
2nd	Reliability	**Reliability**	Reliability	**Reliability**	Reliability	**Reliability**	N/A	**Price**
3rd	Reduce/ Manage consumption	**Minimizing impact on the environment**	Extreme weather mitigation	**Minimizing impact on the environment**	Extreme weather mitigation	**Reduce/ Manage consumption**	N/A	**Reduce/ Manage consumption**

Reliability Priorities

The top reliability concern for customers is the *overall number of outages*. All six business groups ranked this number one and the two residential groups had it as second.

The second concern is the *length of outages during extreme events*. This was the top concern for the residential customers in both rate zones, second for 3-of-4 general service customer groups and third for the remaining Enersource small business group.

The third concern was the *overall length of day-to-day outages* with the two groups of larger Enersource customers (mid-market and large use) choosing it as their second priority and five of the remaining six groups choosing it as third.

Enersource RZ Reliability Priorities	Residential	Small Business	Mid-Market	Large Use
1st	Extreme weather restoration times	Overall number of outages	Overall number of outages	Overall number of outages
2nd	Overall number of outages	Extreme weather restoration times	The overall length of outages	The overall length of outages
3rd	The overall length of outages	The overall length of outages	Extreme weather restoration times	Improving power quality

PowerStream RZ Reliability Priorities	Residential	Small Business	Mid-Market	Large Use
1st	Extreme weather restoration times	Overall number of outages	Overall number of outages	Overall number of outages
2nd	Overall number of outages	Extreme weather restoration times	Extreme weather restoration times	Improving power quality
3rd	The overall length of outages	The overall length of outages	Improving power quality	The overall length of outages

Distribution System Plan (DSP) Trade Offs

Consistent with last year's Enersource survey, a majority of customers in all eight customer groups believe Alectra Utilities should invest in renewal now, rather than defer to the future.

There are clear majorities in the two residential and four GS groups that support investing in general plant now, rather than finding ways to make do with existing equipment and tools. Large Use customers in both rate zones are more evenly divided on this question.

Enersource RZ	Residential	Small Business	Mid-Market	Large Use
Investments in Aging Infrastructure				
Invest What it Takes *Enersource should invest what it takes to replace the system's aging infrastructure to maintain system reliability; even if that increases my monthly electricity bill by a few dollars over the next few years.*	**61%**	**60%**	**74%**	**7/9**
Defer Investments *Enersource should defer its estimated investment in replacing aging infrastructure to lessen the impact of any bill increase; even if this could eventually lead to more or longer power outages.*	30%	29%	22%	1/9
General Plant Investments				
Make Necessary Investments *Enersource should make the investments necessary to ensure its staff have the equipment and IT systems they need to manage the system efficiently and reliably.*	**69%**	**55%**	**64%**	**4/9**
Find Ways to Make Do *Enersource should find ways to make do with the facilities, equipment, vehicles and IT systems it already has.*	27%	37%	33%	3/9

PowerStream RZ	Residential	Small Business	Mid-Market	Large Use
Investments in Aging Infrastructure				
Invest What it Takes *PowerStream should invest what it takes to replace the system's aging infrastructure to maintain system reliability; even if that increases my monthly electricity bill by a few dollars over the next few years.*	**50%**	**62%**	**66%**	**6/13**
Defer Investments *PowerStream should defer its estimated investment in replacing aging infrastructure to lessen the impact of any bill increase; even if this could eventually lead to more or longer power outages.*	37%	27%	27%	2/13
General Plant Investments				
Make Necessary Investments *PowerStream should make the investments necessary to ensure its staff have the equipment and IT systems they need to manage the system efficiently and reliably.*	**63%**	**59%**	**61%**	**4/13**
Find Ways to Make Do *PowerStream should find ways to make do with the facilities, equipment, vehicles and IT systems it already has.*	31%	38%	32%	5/13

There are also clear majorities among all eight for investments in system service. Support for these investments is strongest among the large use customers.

Finally, we find not all investments are equally welcome. Every customer group agrees that modernization can generally wait for the normal renewal process. This is consistent with the earlier finding that customers are generally happy with the service they receive today. There is no immediate pressure to improve customer experience outside of basic reliability if it means paying more.

Enersource RZ	Residential	Small Business	Mid-Market	Large Use
System Service Investments				
Proactively Invest in System Capacity *Enersource should proactively invest in system capacity infrastructure to ensure customers in high growth areas do not experience a decrease in reliability, even if this adds a small increase to customer bills.*	**58%**	**57%**	**73%**	**8/9**
Delay Investments in System Capacity *To help keep rate increases down, Enersource should delay investments in system capacity needs until customers start to experience a decline in reliability.*	33%	31%	23%	0/9
Investments in Modernizing the Distribution System				
Invest in Modernization Now *Enersource should invest in the benefits of modernization now, even if that means customers will have to pay bit more on their distribution rates in the near future.*	**34%**	**34%**	**41%**	**3/9**
Modernize as Part of Normal System Renewal *Enersource should keep rate increases down by modernizing as part of the normal replacement of aging equipment, even though that means delaying the benefits of modernization.*	60%	58%	56%	5/9

PowerStream RZ	Residential	Small Business	Mid-Market	Large Use
System Service Investments				
Proactively Invest in System Capacity *PowerStream should proactively invest in system capacity infrastructure to ensure customers in high growth areas do not experience a decrease in reliability, even if this adds a small increase to customer bills.*	**57%**	**56%**	**64%**	**6/13**
Delay Investments in System Capacity *To help keep rate increases down, PowerStream should delay investments in system capacity needs until customers start to experience a decline in reliability.*	34%	32%	29%	3/13
Investments in Modernizing the Distribution System				
Invest in Modernization Now *PowerStream should invest in the benefits of modernization now, even if that means customers will have to pay bit more on their distribution rates in the near future.*	**31%**	**37%**	**32%**	**4/13**
Modernize as Part of Normal System Renewal *PowerStream should keep rate increases down by modernizing as part of the normal replacement of aging equipment, even though that means delaying the benefits of modernization.*	63%	57%	64%	5/13

Enersource ICM Projects

Enersource rate zone customer groups are divided on leaky transformers. Majorities in the residential and GS<50kW respondent groups prefer to pay more to replace the leaky transformers now. GS>50kW customers and Large Use customers prefer to stick with replacement within the current renewal plan.

Enersource RZ	Residential n=501	Small Business n=202	Mid-Market n=200	Large Use n=9
Leaky Transformers				
Replace Leaking Transformers *I am willing to have my bill increased by about [Res: $0.12; SB: $0.39; MM: $6.21] a month so Enersource can make an extra effort to clean up the backlog of leaky transformers.*	**58%**	**52%**	**40%**	**3 of 9**
Existing Renewal Plan *Enersource should replace leaky transformers as part of its existing renewal plan, even the backlog, even if that means it will take several years before they are all replaced.*	38%	42%	58%	6 of 9
Don't know	3%	6%	3%	--

All Enersource customer groups prefer to at least replace the 78 most pressing poles now and large proportions would like to replace all the poles now or replace the existing above ground system with an underground one, even though the cost of these options is much higher.

Enersource RZ	Residential n=501	Small Business n=202	Mid-Market n=200	Large Use n=9
Rometown Overhead				
Replace Reactively *Enersource should continue to operate the Rometown overhead system, and replace equipment reactively as it fails*	19%	29%	23%	2 of 9
Partial Replacement *Enersource should proceed now to replace 78 of the 198 poles in the most pressing need resulting in a monthly increase of [Res: $0.03 ; SB: $0.09 ; MM: $1.51] for the average customer*	17%	19%	26%	2 of 9
Full Replacement *Enersource should proceed now to replace all 198 poles at a cost of 3.2 million dollars, resulting in a monthly increase of [Res: $0.05 ; SB: $0.16 ; MM: $2.62] for the average customer*	28%	18%	28%	3 of 9
Replace with Underground System *Enersource should proceed now to replace the Rometown overhead system with an underground system at a cost of between $12 and 18 million dollars, resulting in a monthly increase of between [Res: $0.19-$0.28 ; SB: $0.61-$0.92 ; MM: $9.81-$14.72] for the average customer*	38%	26%	20%	1 of 9
Don't know	8%	8%	4%	1 of 9

PowerStream ICM Projects

As mentioned earlier, only one of the ICM project had alternatives that delivered different outcomes for customers. For the *Bathurst Road widening*, we found all three of the business groups preferred staying with the current mix of overhead and underground wires rather than replacing with an entirely underground system. However, residential customers are divided with 46% preferring the current mix to 45% preferring the all underground system option at a higher rate impact.

PowerStream RZ	Residential	Small Business	Mid-Market	Large Use
	n=505	n=205	n=200	n=13
Bathurst Road Widening				
Move Current Mix *Move the current mix of overhead and underground wires and equipment at a cost of $5.5 million dollars, resulting in a monthly increase of [Res: $0.06; SB: $0.11; MM: $2.64] for the average customer.*	**46%**	**48%**	**62%**	**6 of 13**
Replace with Underground System *Replace the overhead system with an underground system at a cost of between $25 and $35 million dollars, resulting in a monthly increase of between [Res: $0.25-$0.35 ; SB: $0.51-$0.72 ; MM: $11.98-$16.78] for the average customer*	45%	40%	31%	2 of 13
Don't know	8%	12%	8%	5 of 13

ICM Bill Impacts

In all eight of the PowerStream and Enersource customer groups, majorities say the proposed rate increase for 2019 is reasonable rather than unreasonable.

Enersource RZ	Residential	Small Business	Mid-Market	Large Use
	n=501	n=202	n=200	n=9
Opinion of Proposed Plan				
The proposed rate increase is reasonable *Res: $0.15 | SB: $0.48 | MM: $7.72*	**72%**	**60%**	**56%**	**7 of 9**
The proposed rate increase is unreasonable	25%	33%	42%	--
Don't know	3%	6%	2%	2 of 9

PowerStream RZ	Residential	Small Business	Mid-Market	Large Use
	n=505	n=205	n=200	n=13
Opinion of Proposed Plan				
The proposed rate increase is reasonable *Res: $0.21 | SB: $0.43 | MM: $10.03*	**63%**	**66%**	**59%**	**8 of 13**
The proposed rate increase is unreasonable	33%	23%	34%	2 of 13
Don't know	4%	8%	6%	3 of 13

Conclusion

The customer engagement INNOVATIVE has conducted for Alectra Utilities in respect of its 2019 ICM application has built upon work done in 2018. The learnings from Alectra Utilities' 2018 ICM application provided a firm foundation for the design of this engagement, allowing Alectra to save the large scale voluntary engagement for customer feedback on the second stage of the DSP development. Looking across the 2017 and 2018 engagements, there are more consistencies than differences.

Some of the core findings remain the same:

- Customers in these two rate zones are generally satisfied with the service they receive, even to the point where they are reluctant to pay more to receive modernization benefits sooner than normal renewal will provide.
- Among competing priorities, price is generally number one followed by reliability. The exception is large use customers for whom reliability is first, with price second.
- Despite price concerns, customers are willing to consider paying more to maintain a reliable system.
- Again, despite general price concerns, most customers – particularly residential customers – are willing to pay more for specific projects that enhance the system, such as undergrounding specific overhead systems.

We have learned two new things in particular.

1. We now have an initial understanding of the hierarchy of priorities among reliability needs. Future engagements will be able to test these priorities through reactions to specific projects.
2. When in comes to modernization, it appears that most customers are reluctant to increase rates for projects that would raise standards in the system but are beyond the level needed for the normal replacement of aging and failing equipment. This finding could be seen as conflicting with customer feedback on specific projects in other parts of this engagement. As a result, we suggest testing reactions to specific types of modernization projects in the next stage of Alectra Utilities' DSP customer engagement.

There is more consistent support for the ICM projects tested this year compared to last year.

With the exception of larger Enersource business customers (mid-market and large use) on the replacement of *leaky transformers*, customer groups supported the investment levels and pacing proposed by Alectra Utilities, or even higher.

A majority of respondents from all eight customer groups felt the overall proposed 2019 ICM rate increase was reasonable, given the benefits.

About this Consultation

Core Engagement Design Considerations

INNOVATIVE was asked to collect input to inform two sets of planning activities:

1. To provide input at the start of Alectra Utilities' first consolidated Distribution Service Plan for the period covering 2020 to 2024.
2. To provide input into process for assessing the appropriateness of various projects for a 2019 ICM application including customer views on bill impacts.

The DSP feedback is more general in nature. Since DSP planning is only beginning, Alectra Utilities is not yet at the point where it can seek feedback on specific Alectra DSP-related projects (for 2020-2024). It is Alectra Utilities' intention to conduct a second round of engagement as planning proceeds. However, it is possible to collect input on needs, outcomes and general trade-offs at this point in the process to be responsive to direction of the OEB.

The ICM feedback is more project specific. As ICM applications are defined as project specific, the consultation was focused on the specific projects Alectra Utilities was considering for ICM funding**.**

Engagement Overview

Building on learnings from previous customer engagements:

As noted earlier, in approaching the design of this round of engagement, INNOVATIVE and Alectra Utilities considered the comprehensive nature of the utility's previous 2017 customer engagement. That effort included a voluntary online workbook, completed by 17,595 customers, and randomly recruited focus groups, leading up to random digit dialing customer telephone surveys.

The previous engagement found support for ICM projects varied by rate zone, rate class and project type. The diagnostic questions in the workbook and discussion groups found that the basic format for testing projects worked.

While the earlier study provided a strong foundation for moving forward, the specific nature of projects being considered required a new engagement.

In planning the level of engagement for this round of feedback, one concern is how often the utility can sustain the level of engagement secured in the 2017 consultation. The view was that customer participation in these consultation activities would likely decline if repeated too frequently. As noted above, the basic approach used to secure ICM feedback tested well with customers in the qualitative elements and that since the previous ICM engagement occurred just a year ago, it was unlikely views about the engagement tool would have changed significantly. In addition, it was felt that projects in the DSP would likely have more impact on the value delivered to more customers than the incremental projects discussed in the ICM. With those two considerations in mind, the judgment was that the second phase of DSP consultation should receive priority for large scale voluntary engagement.

Another consideration for this phase of the engagement was timing. There were several comments from the OEB and intervenors related to the 2017 customer engagement process. As part of Alectra Utilities' final argument in that proceeding, the utility identified a number of issues where it looked for clarification of the OEB's intentions in its 2018 ICM decision. The feeling was that it would be prudent to avoid spending significant resources on a customer consultation before the Board had the opportunity to provide further direction and clarity. Alectra Utilities' 2018 decision was received on April 5th.

The 2017 customer engagement ensured that Alectra Utilities had a strong general sense of customer needs and preferences. For this reason (and those noted above), it was decided the best vehicle for this phase of Alectra Utilities' ongoing customer engagement was to move directly to telephone and online surveys.

Using a stratified random sample telephone survey ensures the team was able to update those views with a representative sample of Alectra Utilities' customers to capture any emerging needs or shifting priorities and to generate feedback on the specific projects being considered for this application through an engagement tool that allows us to generalise to the broader customer base.

Priority was given to focusing first on rate zones that had potential ICM projects for consideration (i.e. the PowerStream and Enersource rate zones).

Sample Frame

For the purposes of executing the customer surveys, Alectra Utilities provided INNOVATIVE with a confidential list of customers' contact information.

The contact list included only customers with telephone contact information on file and who had been a customer of Alectra Utilities for at least a year. The information contained in the contact list included customer name, telephone number(s), postal code and total annual electricity consumption for the year.

Only one customer per household or business was eligible to complete their respective survey. Respondents were screened to certify that only customers responsible for paying or overseeing their electricity bill were interviewed. This step was taken to ensure that survey respondents represented the most qualified person within a household or business to answer questions about their electricity bill and trade-offs between reliability and particular project investments.

Before retiring any randomly selected telephone numbers from the contact list, 8 attempts were made to reach a potential respondent for each unique telephone number, or until an interviewer received a hard refusal. Each night a new sample was released from the contact list to replace completed or retired numbers.

Sample Design

Quotas were set by electricity consumption levels and geographic considerations from within the Enersource and PowerStream rate zones to obtain a representative customer sample.

The telephone surveys followed a stratified random sampling methodology. This is a method of sampling that involves the division of a population into smaller groups known as strata. In stratified random sampling, the strata are formed based on members' shared attributes or characteristics (in this case: customer class, rate zone, and electricity usage). A random sample from each stratum is taken in a number proportional to the stratum's size when compared to the customer population. These subsets of the strata are then pooled to form a random sample.

Residential and General Service customers were divided into quartiles based on annual electricity usage to ensure the sample had a proportionate mix of customers from low, medium-low, medium-high, and high electricity usage households and businesses.

Screening questions were designed to ensure only customers who received an electricity bill from Alectra Utilities were included. In addition, residential customers needed to have primary or shared responsibility over their household's electricity bill. In the case of businesses and other organisations, only the organisations' decision makers on electricity use were included in the business completes. Business customers could also be household customers of Alectra Utilities but were reminded to respond as their organization's decision-maker as best as possible.

Weights have <u>not</u> been applied to any of the six surveys as the stratified random samples are accurate representations of actual customer distribution by rate.

The very largest customers in these two rate zones (2MW+) were sent an online version of the survey.

Survey Development

The core topics for customer engagement are well defined in the "Handbook for Rate Applications":

- Do customers have any outstanding needs?
- What outcomes do customers want Alectra Utilities to focus on?
- What are the priorities among those outcomes?
- What are customers' preferences on the core trade-offs that must be addressed in the Alectra Utilities' DSP?
- What are customers' preferences on the ICM proposals?

Every customer consultation has two key challenges that need to be overcome to successfully engage customers so that they can provide meaningful answers:

1. Customers begin with limited knowledge of their utility.
2. The average customer is not prepared to give a lot of time to a consultation.

There are important implications from these challenges:

1. To ensure the engagement includes a representative sample, all consultation tools must give low information participants the information they need to provide a meaningful answer to any question.
2. All consultation tools need to limit the time demands they place on participants or else risking bias by losing less engaged customers.

Covering the Basics:

Any survey or workbook must begin with the assumption that respondent knows very little about the utility. In this case, due to the merger, the engagement tools had to start with the name. Question B5 of the telephone surveys established awareness of the name and the introduction in B6 established the language to be used as the survey progressed. While awareness of the merger is up significantly from a year ago, we still find over 40% of residential and 27% of small business customers are not aware of the merger.

It is also important to ensure that customers understand what a distributor does and does not do, as well as what portion of their bill applies to the distributor. All customers must at least have that information at hand before more substantive questions can be addressed. This was addressed with questions B7 and B10 in the telephone survey. Without those questions, INNOVATIVE could not be sure if the comments being collected were focused on Alectra Utilities and its responsibilities, or if they were focused on other elements of the electricity system.

Finally, before moving into the discussion of the ICM projects and their potential rate impacts, questions E19 and E26 established the basics of the rate approval and Price Cap IR process.

DSP Trade-Off Questions:

In terms of more substantive questions, combining the engagement for the initial phase of the DSP with the ICM was both a more efficient use of customer time and ensured that responses to the ICM questions were informed responses.

Customers generally do not have pre-existing opinions readily available on the issues of interest to this application. It is well documented that people "construct" opinions as needed. There is substantial literature on how to help people do that fairly and effectively[1].

When members of the public "construct" opinions, they do it based on considerations that are easily accessible in their minds. As a survey moves to asking more detailed questions, it is important that the survey raises the full range of considerations that might underpin an opinion on that question.

The telephone surveys were able to raise the range of key considerations for customer opinions with a few simple questions. B8 and B9 allowed us to collect information about customers' needs. Questions C12, C13, C14 and C15 allowed customers to provide feedback on the goals Alectra Utilities should pursue in their on-going business planning. Both closed and open-ended questions were used here. The list for the closed-ended questions was revised from the earlier engagement to add *safety* as a topic. Other items were condensed using feedback from testing focus groups to keep the list to a manageable size for a phone survey. Open-ended questions were provided as a 'safety-valve' for customers to express specific needs and to identify other priority outcomes. Finally, D16, D17, and D18 were added to provide further insight into what specific elements of reliability are given the highest priority by customers to give direction to planners in the DSP process.

This approach ensured that customers did not move into the more detailed questions until they had considered their own needs and the broad range of goals the utility should pursue.

[1] John Zaller (1992) The Nature and Origins of Mass Opinion and Philip E. Converse (1964) The Nature of Belief Systems in Mass Publics.

The first set of detailed questions focused on trade-offs in the DSP process. Since System Access is non-discretionary, information on this area of capital investment was introduced at the beginning of this section, but no questions were asked. E22 addressed the trade-off between reliability and cost. E23 covered general plant. System Service was the topic of E24. E25 asked for customer general views on system modernization investments.

ICM Questions:

The ICM questions varied according to the specific projects being considered in each rate zone. Where PowerStream has design options that deliver different potential outcomes to customers, customers were asked to provide their preference between those options. Customers were also asked about the total bill impact of these projects.

Enersource RZ respondents were asked about two ICM renewal projects; *leaky transformers* and the *Rometown area overhead system*. In each, respondents were given a short introduction of the issue and asked to choose between the alternative approaches available. In each case, the options tied costs to potential benefits.

PowerStream RZ respondents were asked to consider three ICM projects. The *York Regional Rapid Transit* project is a system access project with no major design choices. The *Barrie TS* project has two options with no differences in customer outcomes, so Alectra Utilities is proposing the least expensive option. Those two projects were described to customers, but no project specific questions were asked. PowerStream RZ respondents were then asked about the design choices for *Bathurst Street road widening project*. Again, the options for this ICM project tied costs to potential benefits.

Changes in Approach

There were several changes in survey design intended to address issues raised from the previous 2017 customer engagement.

1. In the 2017 customer engagement, a concern was raised about using a *question skip* approach in the ICM section, wherein customers had the choice to skip specific project details. In this round of customer engagement, the decision was made to keep the survey short enough to ensure that all respondents were asked about each individual ICM project.
2. In the 2018 ICM rate application decision, the OEB expressed a desire for more project-specific customer feedback. While it is too early in the DSP process to identify specific projects, an effort was made to develop project specific questions in the ICM section where there were alternatives that created meaningful differences in customer outcomes.
3. To provide better insight into vulnerable customers, questions were added to identify LEAP qualified respondents. Segmentation sidebars were added to show how vulnerable customer responses compare to other customers.
4. There has been an effort made to provide more relevant background information for DSP trade-off questions. This includes familiarity with how distribution rates are set in Ontario (E19). E21 shares information about current reliability experienced by the average customer as well as the share of outages due to equipment failure before asking about the renewal trade-off focus question (E22).

Field Schedule

Questionnaire Testing Focus Groups

Based on the qualitative elements of the 2017 engagement, the project team was confident in the general approach to the survey. However, the new projects involved new questions and some other changes were made primarily in response to intervenor and OEB staff comments. To ensure the surveys presented customers with clear and unambiguous information and questions needed for them to provide meaningful feedback on Alectra Utilities' DSP and ICM options, INNOVATIVE conducted questionnaire testing focus groups with randomly recruited customers (i.e., Residential, GS < 50kW and GS>50kW).

10 customer focus groups took place prior to the launch of the telephone and online surveys:

May 8, 2018:

- 2 Focus Groups: residential and GS < 50 kW groups with Enersource RZ customers
- 2 Focus Groups: residential and GS < 50 kW groups with PowerStream RZ customers

May 8, 2018:

- 3 Focus Groups: residential, GS < 50 kW, and GS > 50 kW groups with Enersource RZ customers
- 3 Focus Groups: residential, GS < 50 kW, and GS > 50 kW groups with PowerStream RZ customers

Questionnaires were edited to provide better clarity following the two focus group dates.

Telephone Survey Field Dates

Telephone surveys where in field between May 10 and 29, 2018:

Telephone survey field dates and sample sizes for the Enersource rate zone:

- ***Residential*** *survey field date: May 10-20 | n=501; margin of error ±4.4%, 19 times out of 20*
- ***GS < 50 kW*** *survey field date: May 11-29 | n=202; margin of error ±6.8%, 19 times out of 20*
- ***GS > 50 kW*** *survey field date: May 15-28 | n=200; margin of error ±6.7%, 19 times out of 20*

Telephone survey field dates and sample sizes for the PowerStream rate zone:

- ***Residential*** *survey field date: May 10-22 | n=505; margin of error ±4.3%, 19 times out of 20*
- ***GS < 50 kW*** *survey field date: May 11-24 | n=205; margin of error ±6.8%, 19 times out of 20*
- ***GS > 50 kW*** *survey field date: May 11-28 | n=200; margin of error ±6.6%, 19 times out of 20*

Alectra Utilities' Residential customers were contacted by telephone between 4pm and 9pm on weekdays; between 11am and 9pm on Saturdays; and between 12pm and 9pm on Sundays. General Service customers were contacted weekdays between 9am and 5pm. INNOVATIVE conducted all interviews through its computer assisted telephone interviewing (CATI) system.

Online Survey Field Dates

An online survey was designed for individual Large Use customers (2MW+) in both of Alectra Utilities' Enersource and PowerStream rate zones.

Alectra Utilities provided INNOVATIVE with an email contact list consisting of the prime contact for each of its Large Use customers in the Enersource and PowerStream rate zones. INNOVATIVE provided each customer contact with a unique URL via an email invitation so that only customers identified by Alectra Utilities were able to complete the survey and only once.

Customers were sent three reminder emails to encourage survey participation. In addition, Alectra Utilities' staff followed up with customers by telephone to encourage survey participation.

The analysis of this survey is based on 9 of 36 eligible responses (25% completion rate) from Large Use customers in the Enersource rate zone and 13 of 47 responses (28% completion rate) from Large Use customers in the PowerStream rate zone.

Individual Large Use customer responses were anonymous and no identifiable respondent information was shared with Alectra Utilities. Responses were combined within the Enersource and PowerStream rate zones to protect the confidentiality of individual Large Use customers.

The Large Use customer online survey was in field between May 17 and 29, 2018.

Field Schedule Overview Table:

	Methodology	Field Dates	Targeted Sample Size	Actual Sample Size
Enersource RZ Residential	Telephone	May 10-20, 2018	n=500	n=501
Enersource Small Business (GS < 50 kW)	Telephone	May 11-29, 2018	n=200	n=202
Enersource Mid-Market (GS > 50 kW)	Telephone	May 15-28, 2018	n=200	n=200
Enersource Key Accounts	Online	May 17-29, 2018	N/A	9 of 36
PowerStream Residential	Telephone	May 10-22, 2018	n=500	n=505
PowerStream Small Business (GS < 50 kW)	Telephone	May 11-24, 2018	n=200	n=205
PowerStream Mid-Market (GS > 50 kW)	Telephone	May 11-28, 2018	n=200	n=200
PowerStream Key Accounts	Online	May 17-29, 2018	N/A	13 of 47

Environmental Controls

It is important to be able to identify factors that may influence customer preferences and distinguish between what is within, and what is outside a LDCs influence or control.

Perceptions of LDCs often tend to move with **general perceptions of the sector** rather than in response to the local utility. We currently see this in Ontario with respect to public attitudes towards the electricity sector and frustration with existing electricity rates.

In addition, perceptions of utilities are also strongly correlated with **financial circumstances**. In tough times perception and preference can change because customers are struggling with bills, not because of anything the LDC has, or has not, done.

Control questions help distributors distinguish between utility driven preferences and externally driven preferences. INNOVATIVE uses two questions to help capture external phenomena:

1) **Financial Hardship:** The cost of my electricity bill has a major impact on my finances / the bottom line of my organization and requires I do without some other important priorities/ results in some important spending priorities and investments being put off.

2) **General Feelings Towards the Sector**: Customers are well served by the electricity system in Ontario.

In addition, INNOVATIVE added a new question to enable additional analysis.

3) **Vulnerable Consumers**: In response to OEB and intervenor comments on previous Alectra Utilities (and its legacy LDC) rate applications, questions have been added to identify customers who are eligible for the LEAP program to help assess whether vulnerable consumer have unique needs or preferences.

Segmentation "side bars" have been provided for *Financial Hardship* and *General Feelings Towards the Sector* as appropriate in the detailed reports.

Appendix 1.0

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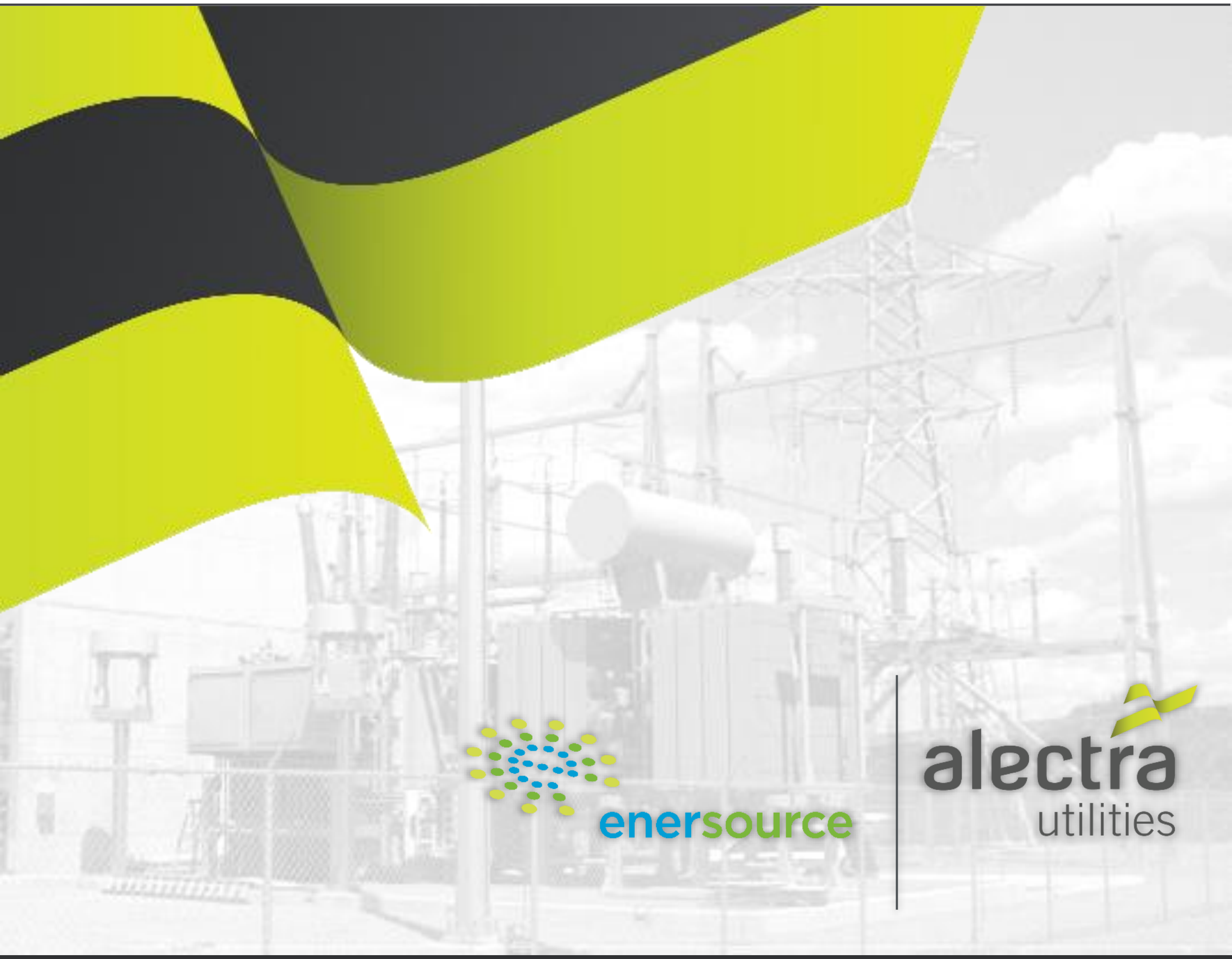
Enersource Rate Zone
2019 ICM Application Consultation



MAY 2018

STRICTLY PRIVILEGED AND CONFIDENTIAL

Survey Methodologies

Field and Design

For the quantitative portion of the customer consultation, Alectra Utilities invited Enersource heritage customers from three rate classes to participate in a 10-15 minute telephone survey.

- The **residential** survey fielded from **May 10-20, 2018** amongst **n=501** residential customers, with a margin of error of ±4.4%, 19 times out of 20.
- The **small business** survey fielded from **May 11-29, 2018** amongst **n=202** small business customers, with a margin of error of ±6.8%, 19 times out of 20.
- The **mid-market** survey fielded from **May 15-28, 2018** amongst **n=200** mid-market business customers, with a margin of error of ±6.6%, 19 times out of 20.

INNOVATIVE conducted all interviews through its computer assisted telephone interviewing (CATI) system.

This generalizable telephone survey used a stratified random sampling approach based on a known characteristic, in this case, consumption by rate class (residential, GS<50kW and GS>50kW).

Sample lists were provided by Alectra Utilities. Screening questions were designed to ensure only customers who received an electricity bill from Alectra Utilities were included. In addition, residential customers needed to have primary or shared responsibility over their household's electricity bill and only the organizations' decision makers on electricity use were included in the business completes. Business customers could also be household customers of Alectra Utilities, but were reminded to respond as their organization's decision-maker as best as possible.

Note: *Graphs and tables may not always total 100% due to rounding values rather than any error in data. Sums are added before rounding numbers. Caution interpreting results with small n-sizes.*

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Consumption Quartiles

The tables below illustrate the strata divisions for each rate class, based on consumption quartiles.

Dividing customer sample into quartiles based on known characteristics was used to develop accurate quotas to ensure the sample was representative of Enersource's customer base.

Residential

Quartile	Target	Actual	Difference
Low consumption	n=125	n=125	0
Medium-low	n=125	n=125	0
Medium-high	n=125	n=126	+1
High consumption	n=125	n=125	0
Total	**n=500**	**n=501**	**+1**

Small Business

Quartile	Target	Actual	Difference
Low consumption	n=50	n=51	+1
Medium-low	n=50	n=53	+3
Medium-high	n=50	n=48	-2
High consumption	n=50	n=50	0
Total	**n=200**	**n=202**	**+2**

Mid-Market

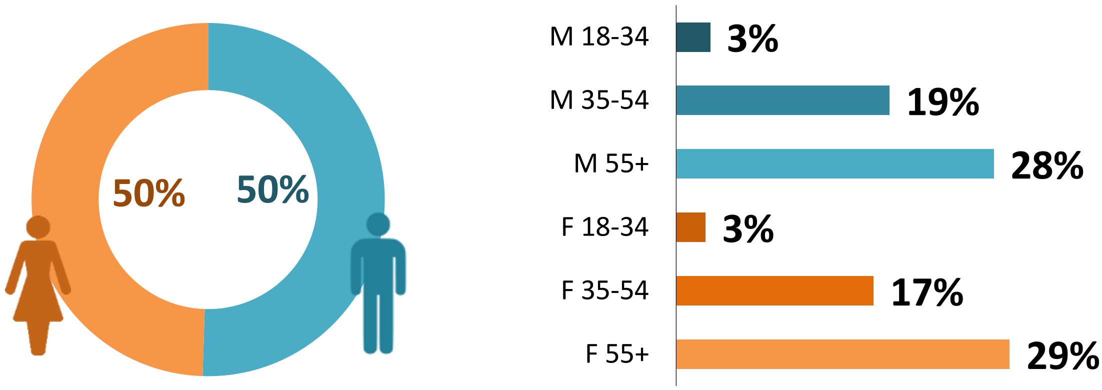
Quartile	Target	Actual	Difference
Low consumption	n=50	n=50	0
Medium-low	n=50	n=50	0
Medium-high	n=50	n=50	0
High consumption	n=50	n=50	0
Total	**n=200**	**n=200**	**0**

Residential Rate Class

Segmentation & Demographics

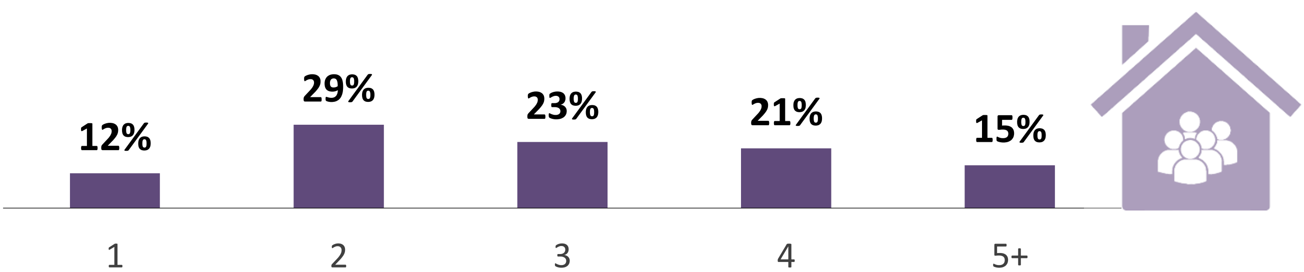
Residential

Age-Gender



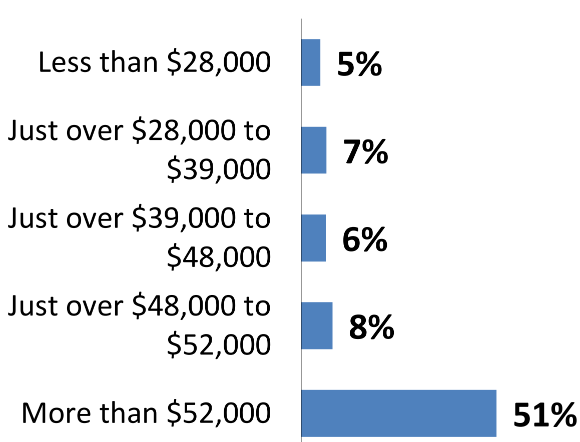
Note: 'Refused' (1%) not shown.

Household Size



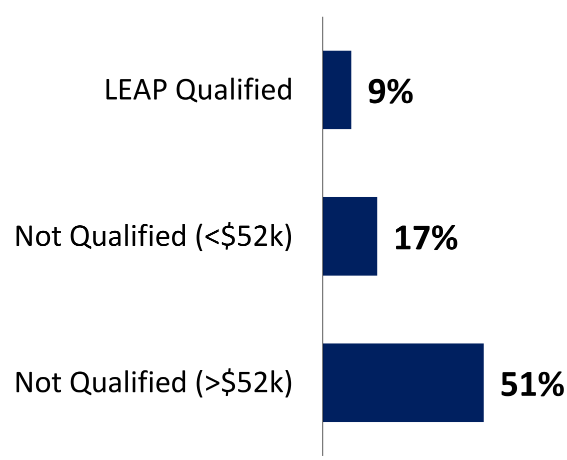
Note: 'Refused' (1%) not shown.

Household Income



Note: 'Refused' (20%), Not sure (3%) not shown.

LEAP Qualification



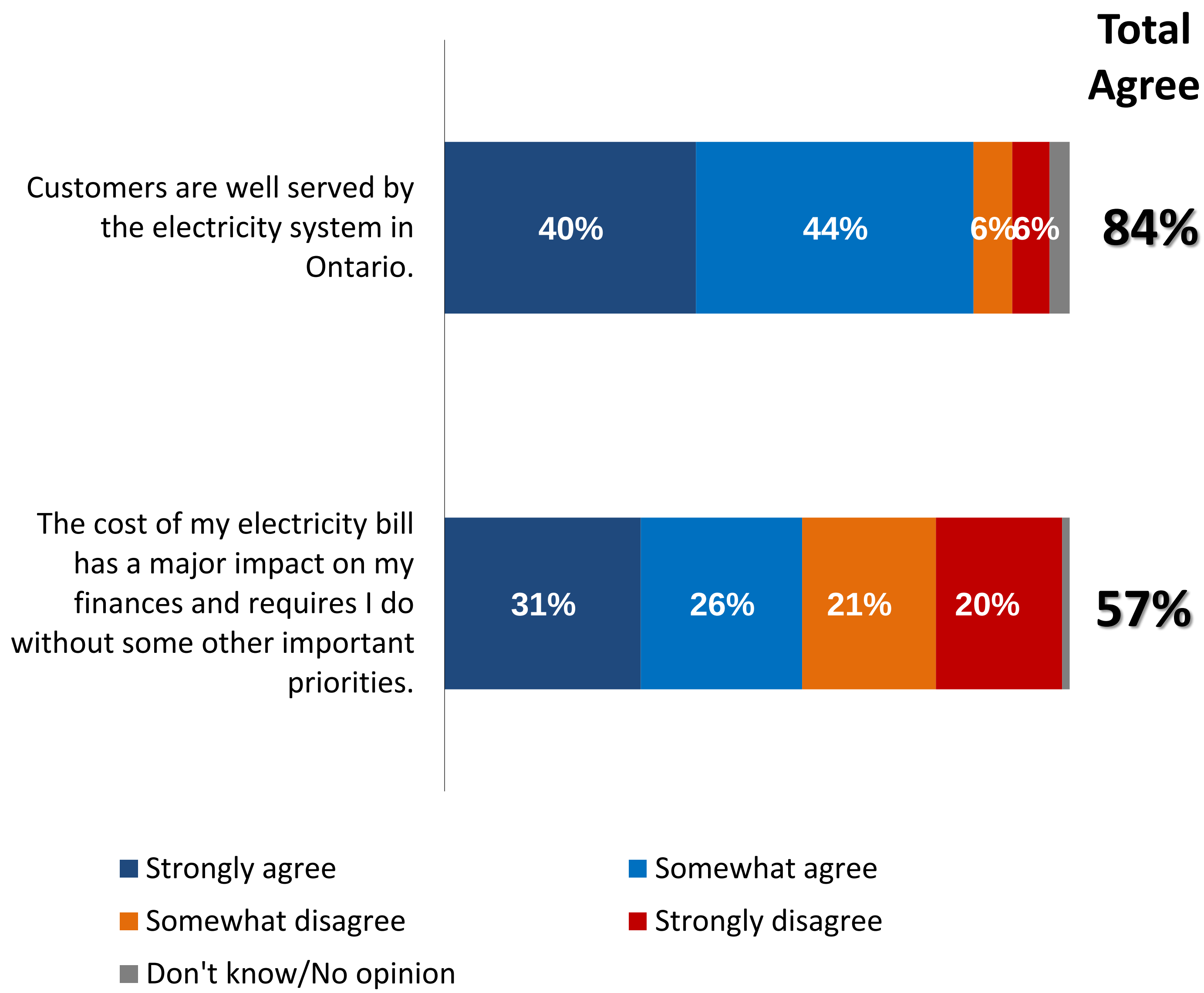
Note: 'Refused' (20%), Not sure (3%) not shown.

Segmentation & Demographics

Residential

Q For each statement please tell me if you would strongly agree, somewhat agree, somewhat disagree or strongly disagree. If you don't know enough to say or don't have an opinion just let me know.

[asked all respondents, n=501]



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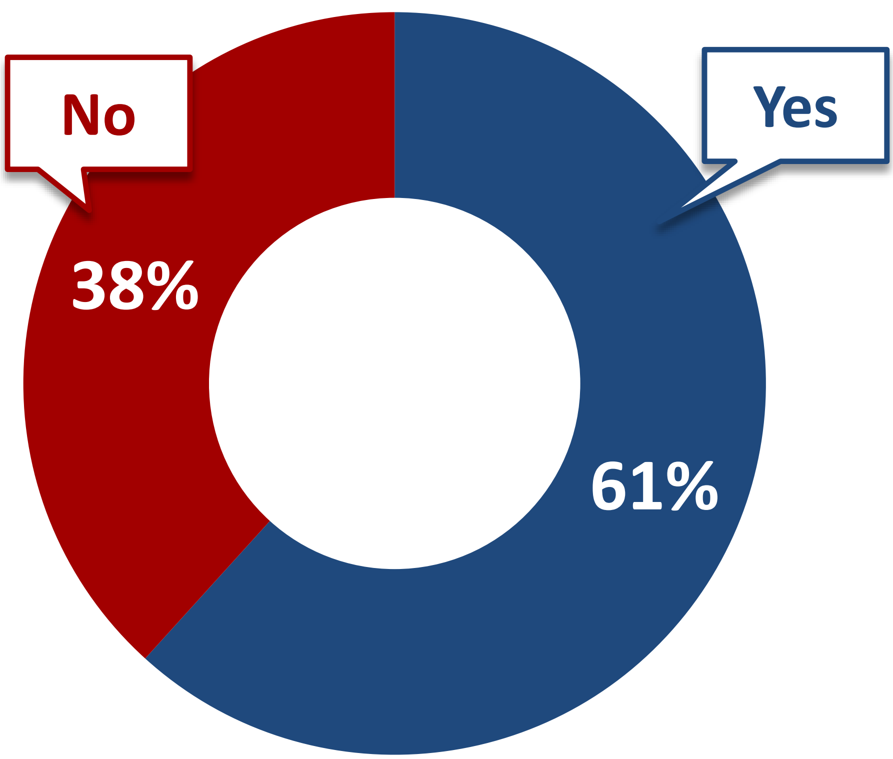
Awareness of Merger

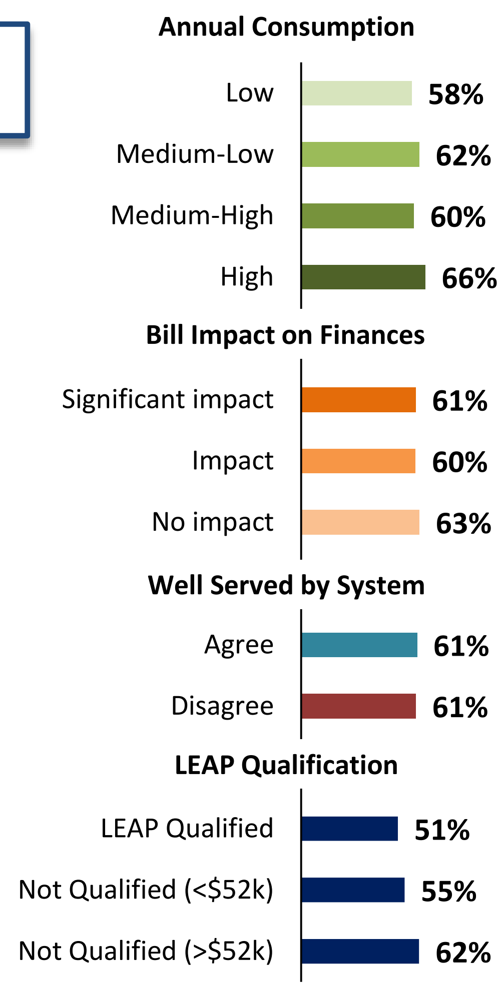
Residential

Q You may have recently heard that Enersource has merged with neighbouring electricity distributors to form a new company called Alectra Utilities.

Had you heard of the Alectra Utilities merger before this survey?
[asked all respondents, n=501]



Segmentation
*Those who say "**Heard of merger**":*



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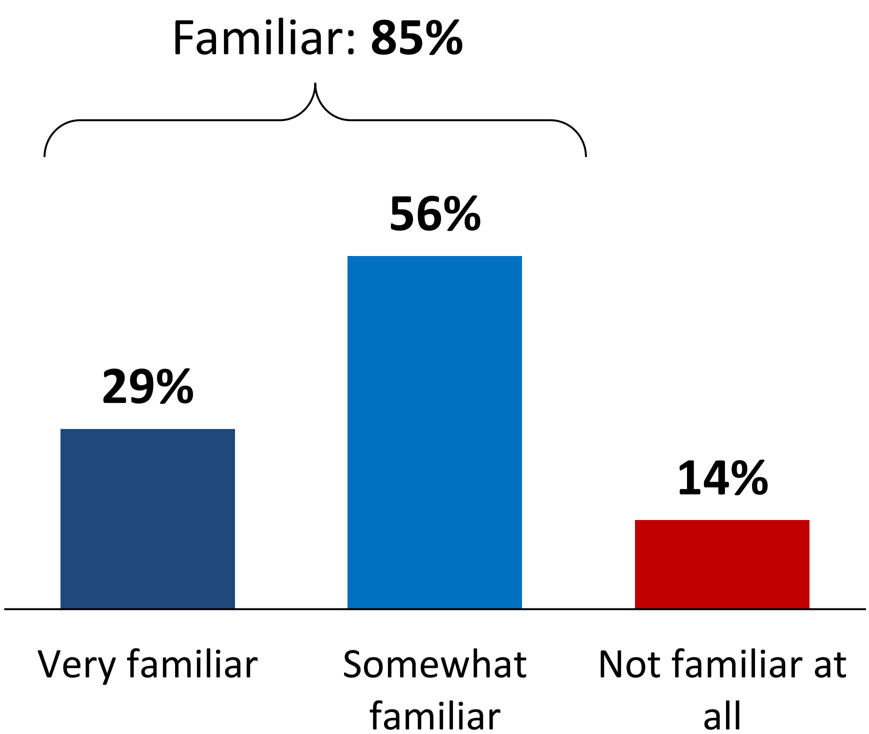
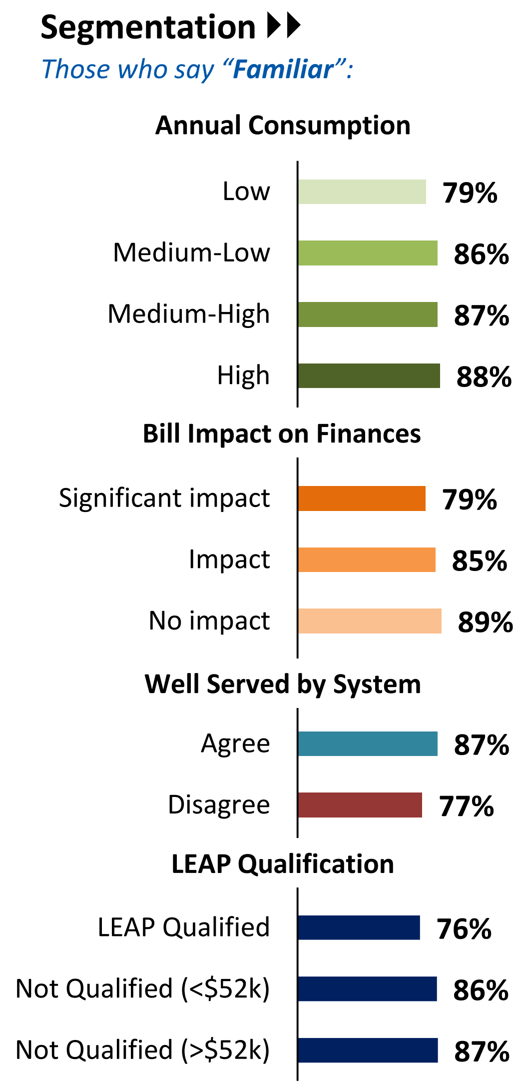
Familiarity with Enersource

Residential

Q First, let's talk about your experience. As you may know, Enersource operates and maintains the local electricity distribution system in Mississauga. This is the system that takes the electricity from provincial transmission lines and brings it to your home through a network of wires, poles and other equipment that is owned and operated by Enersource.

How familiar are you with Enersource?
[asked all respondents, n=501]





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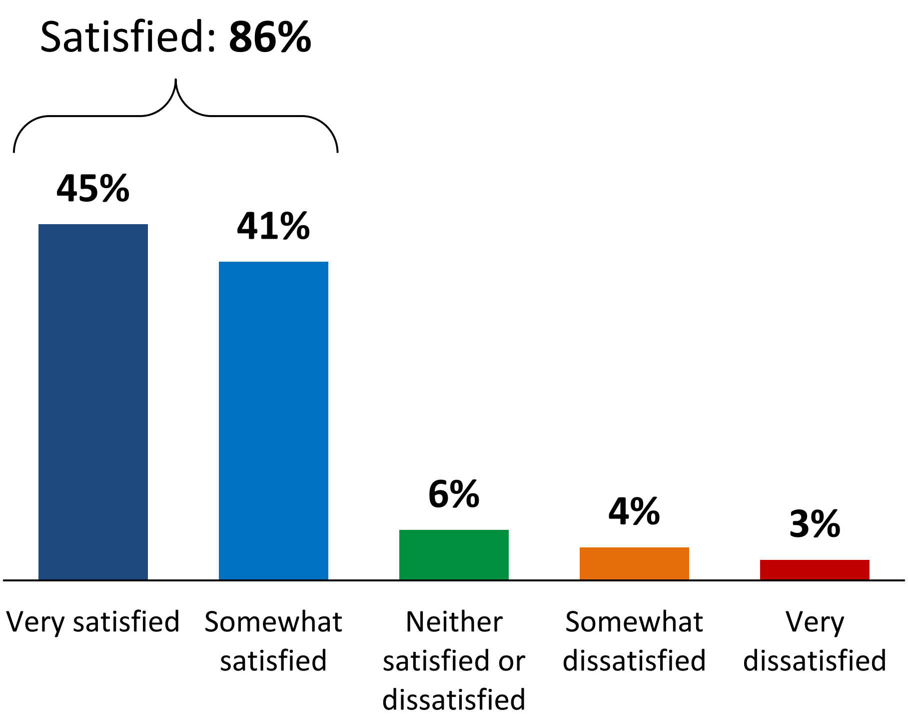
Note: 'Don't know' (1%) not shown.

Satisfaction with Services

Residential

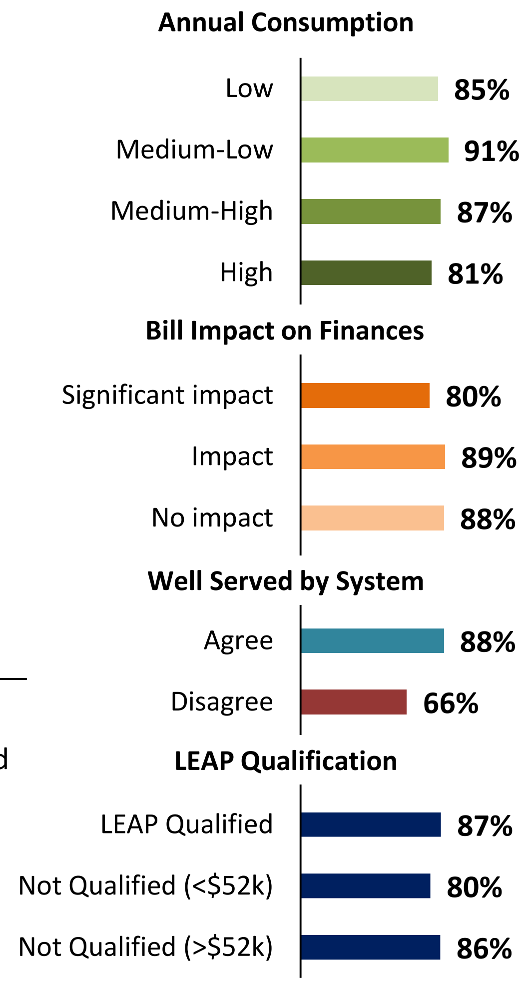
Q In general, how satisfied or dissatisfied are you with the services you receive from Enersource? Would you say you are very satisfied, somewhat satisfied, somewhat dissatisfied, or very dissatisfied?

[asked all respondents, n=501]



Segmentation

*Those who say “**Satisfied**”:*

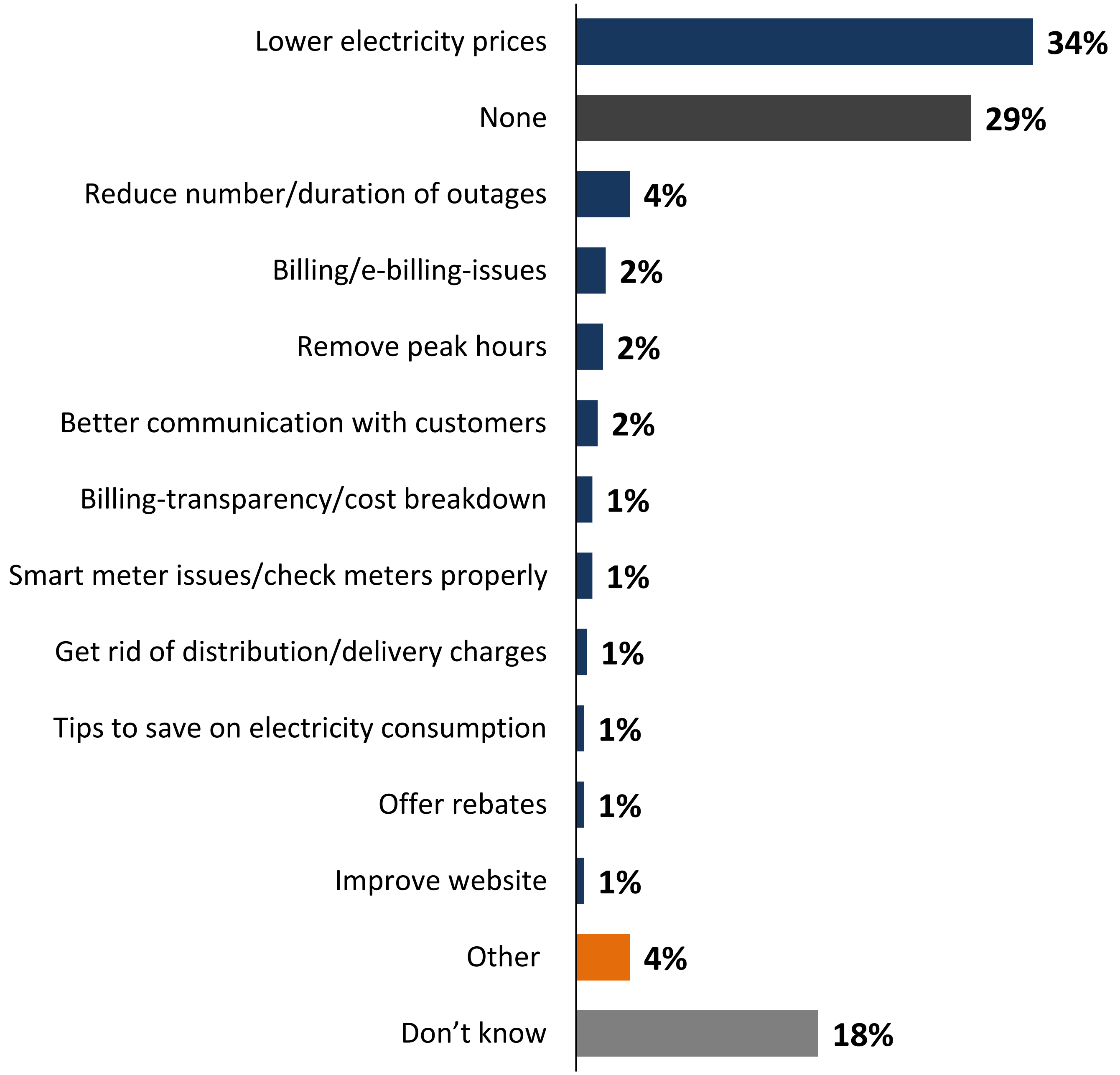


Note: ‘Don’t know’ (1%) not shown.

Suggestions for Improvements

Residential

Q Is there anything in particular Enersource can do to improve its service to you?
[asked all respondents, n=501]



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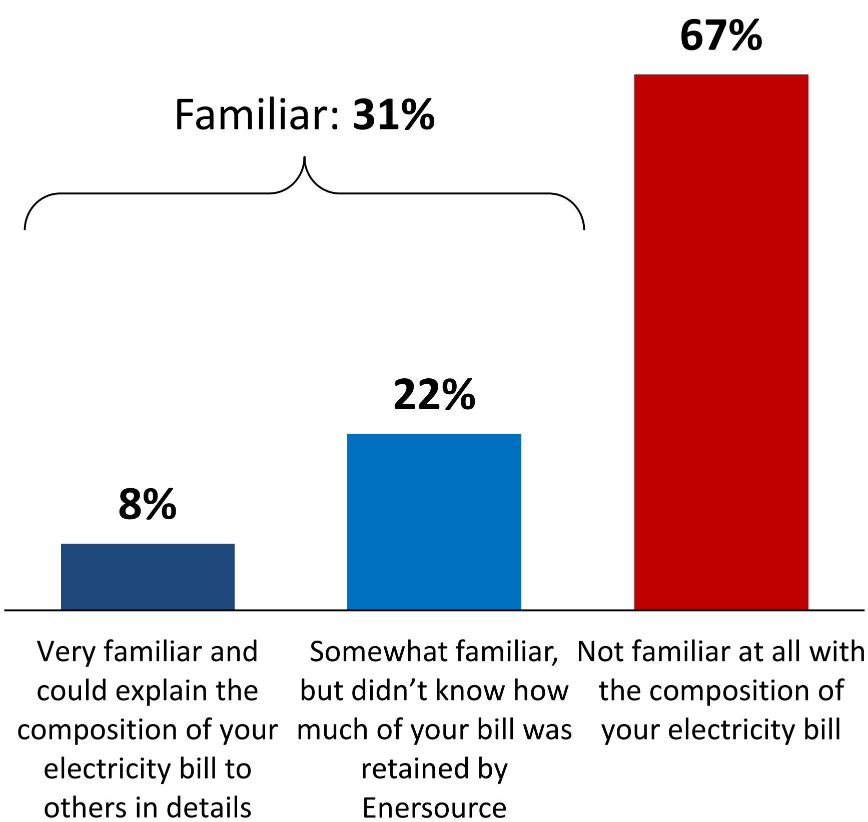
Familiarity with Amount of Electricity Bill Remitted

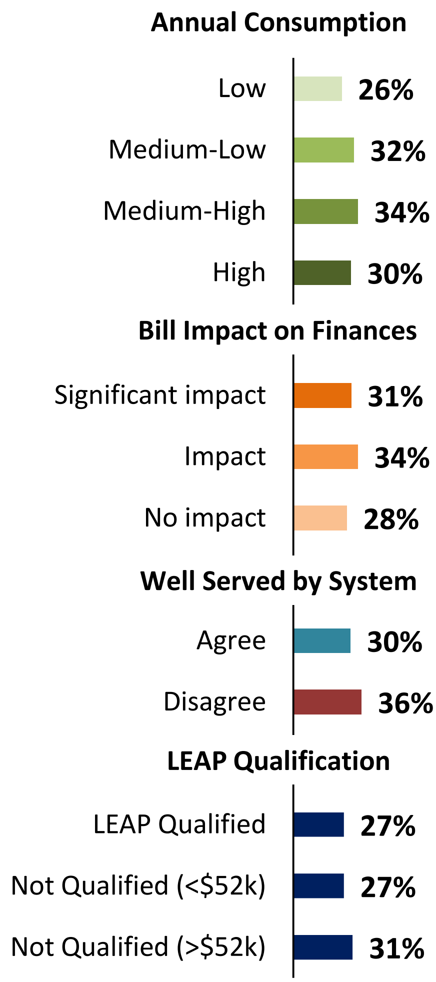
Residential

Q I'd now like to talk with you about your electricity bill … While Enersource is responsible for collecting payment for the entire electricity bill, they retain about 23% of the typical residential customer's bill. This is about $25.02 on an average $108.48 monthly residential electricity bill. The rest of the bill goes to power generation companies, transmission companies, the provincial government and regulatory agencies.

Before this survey, how familiar were you with the percentage of your electricity bill that is retained by Enersource?
[asked all respondents, n=501]



Segmentation
*Those who say "**Familiar**":*



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Note: 'Don't know' (2%) not shown.

Customer Priorities

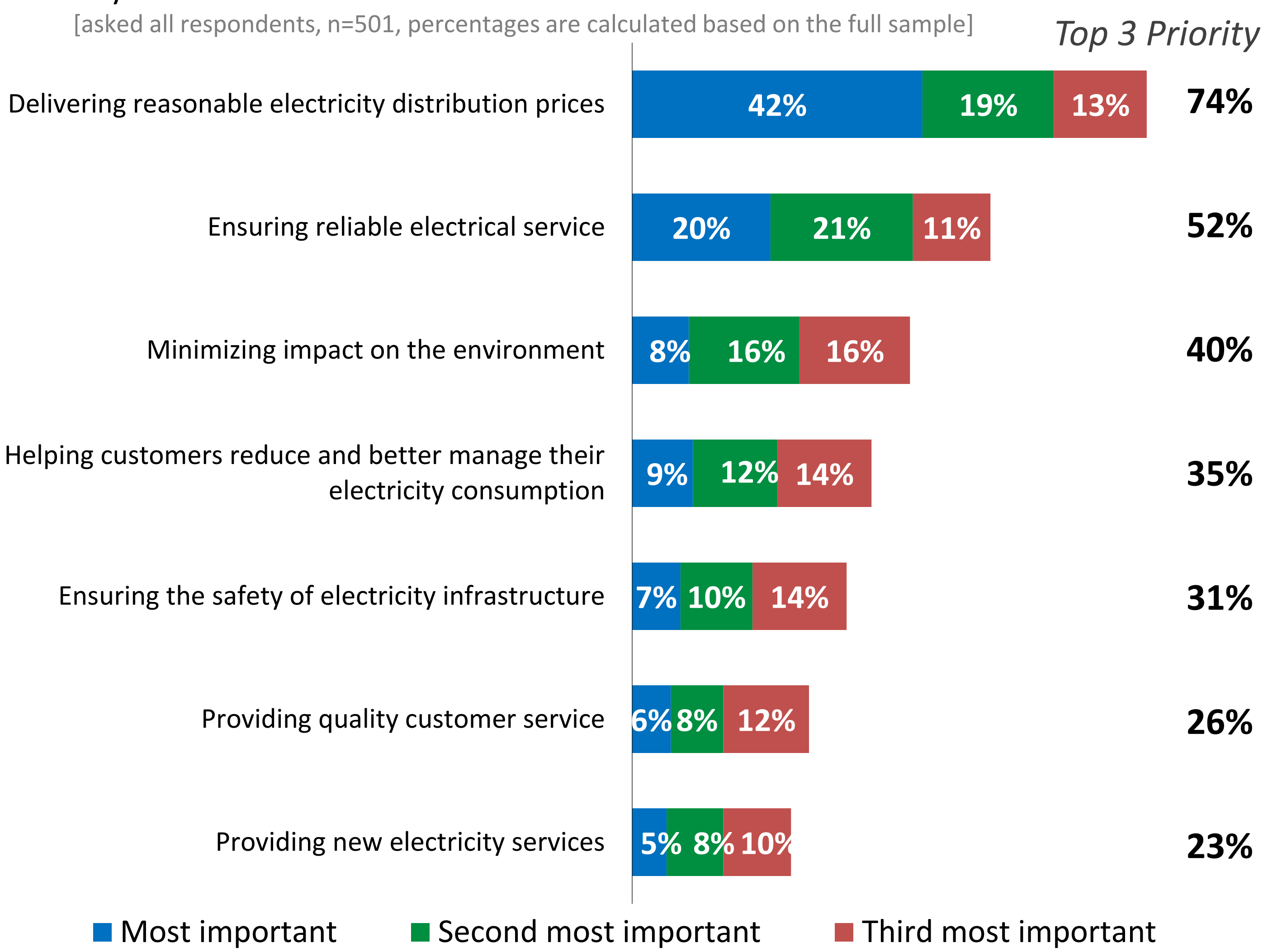
Residential

Q Now lets talk about our second topic – outcomes. Enersource regularly holds discussions with its customers to better understand how it should set spending priorities with the money customers pay for service.

In recent conversations with customers, a number of company goals were identified as key priorities for Enersource.

Among the following Enersource priorities, please tell me which one is most important to you.

[asked all respondents, n=501, percentages are calculated based on the full sample]



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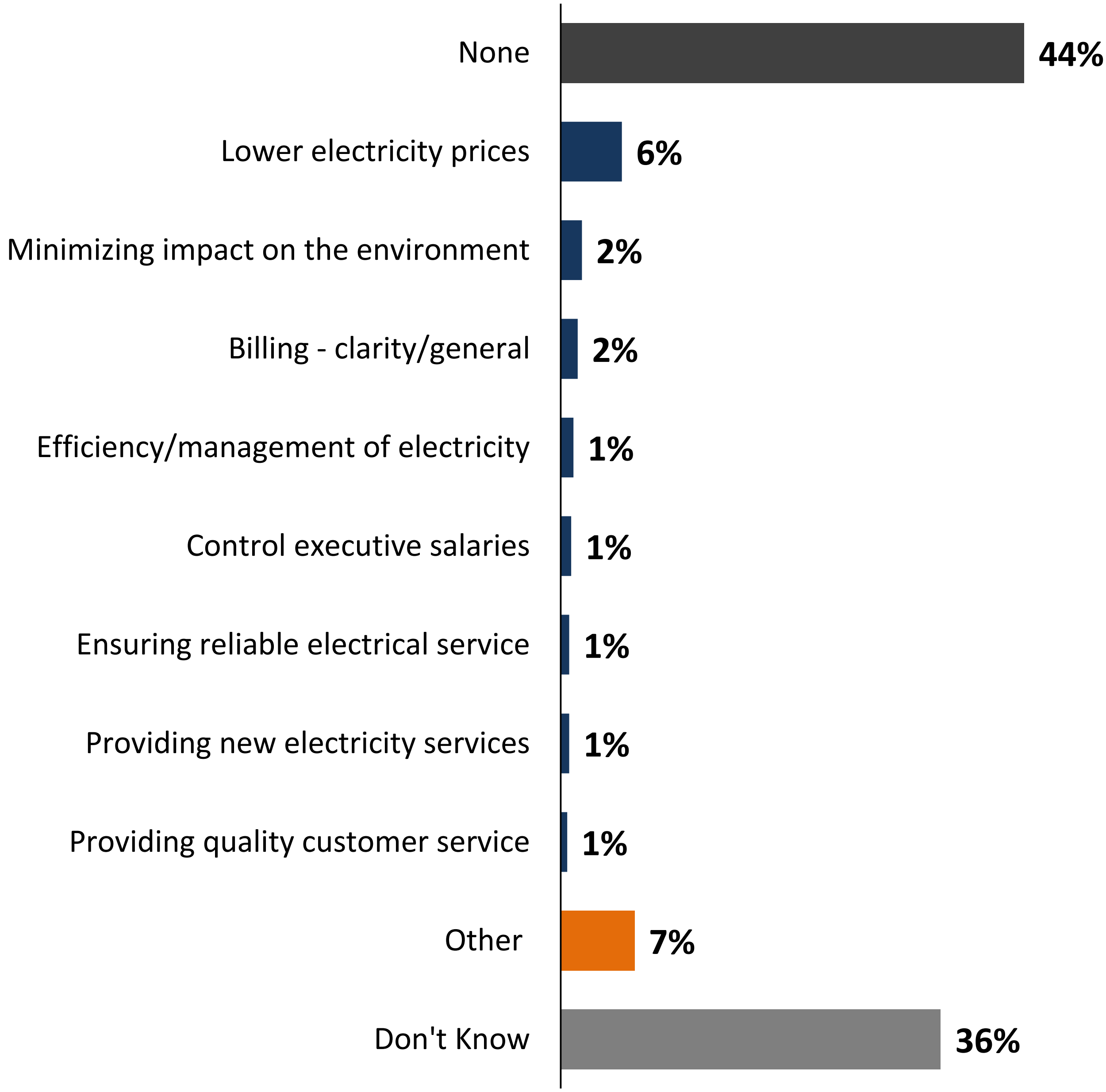
Note: 'Don't know' not shown.

Additional Priorities

Residential

Q Are there any other important priorities that Enersource should be focusing on that weren't included in the previous list I read to you?
[asked all respondents, n=501]



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System Reliability

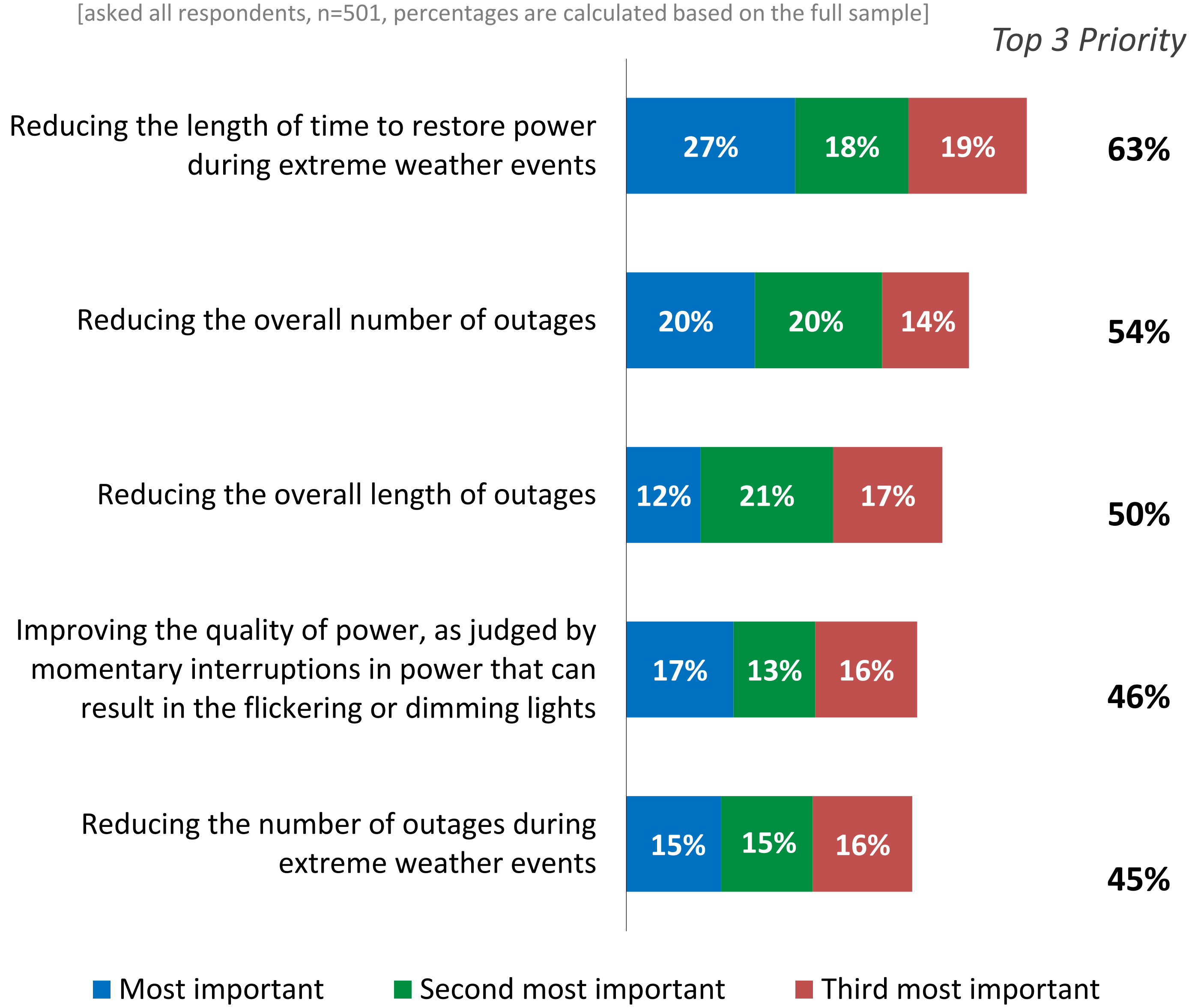
Residential

Q We would like to understand your experience with reliability.

There are different outcomes when customers talk about power reliability.

Among the following reliability outcomes, please tell me which one is most important to you.

[asked all respondents, n=501, percentages are calculated based on the full sample]



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Note: 'Don't know' not shown.

Familiarity with how Electricity Rates are Set

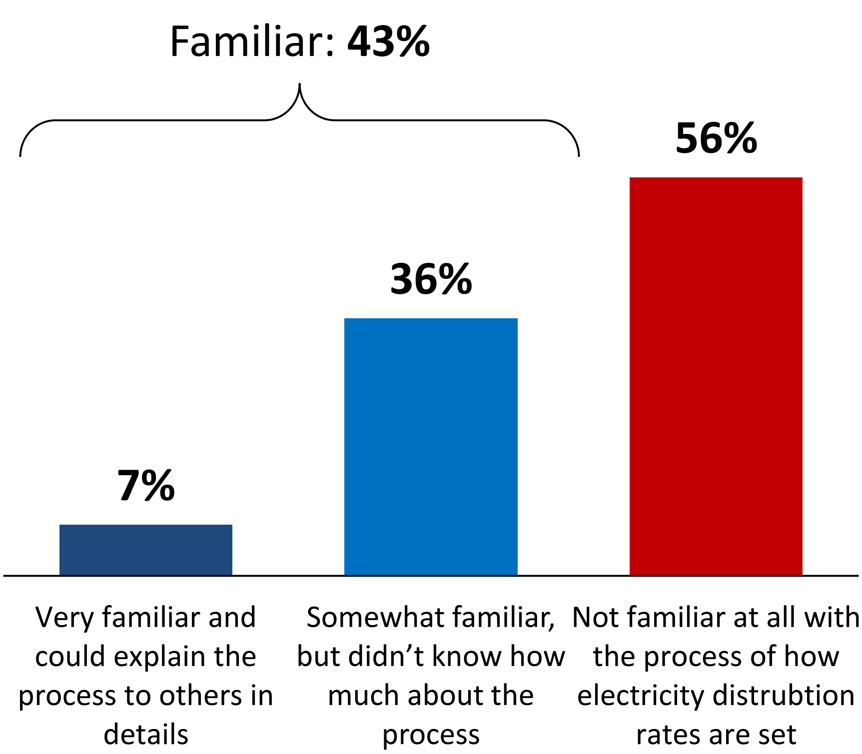
Residential

Q *Now, lets turn to our third topic, investment trade-offs.* The electricity industry in Ontario is regulated by the Ontario Energy Board, otherwise known as the O-E-B. The OEB sets electricity rates in Ontario.

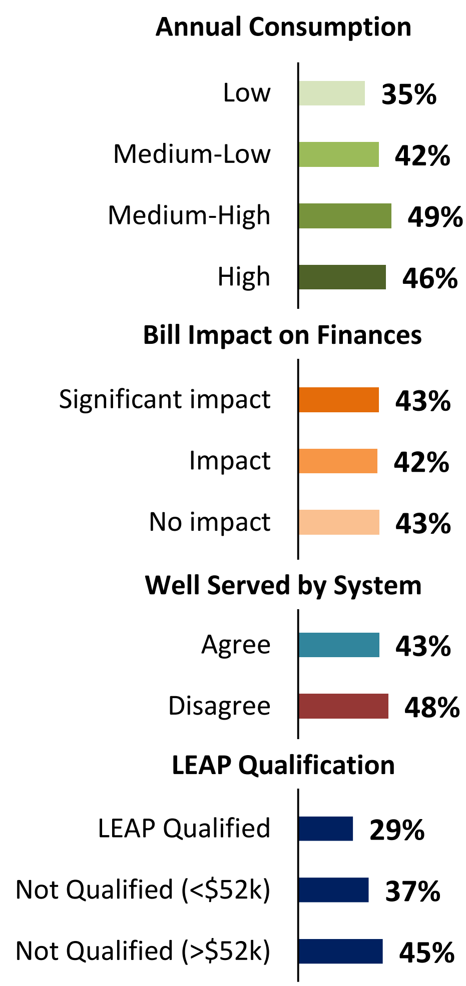
The OEB requires electricity distributors, such as Alectra Utilities, to develop its business plan and distribution system plan, as well as make spending and investment decisions based on customer feedback.

Electricity distributors are funded by the distribution rates paid by their customers. Periodically, distributors are required to file rate applications with the OEB to justify the amount of funding they need to safely and reliably distribute electricity to their customers.

Before this survey, how familiar were you with how electricity distribution rates are set in Ontario?
[asked all respondents, n=501]



Segmentation
*Those who say "**Familiar**":*



Note: 'Don't know' (1%) not shown.

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Investment Trade-Off Preamble

Residential

"Alectra Utilities is now starting to create its first overall investment plan as a merged utility. The OEB divides electricity distributor investments into four categories. One category, called system access, includes investments that are mandatory under the distributor's licence to operate. These include reasonable costs to connect new customers and moving existing infrastructure to accommodate civic improvements.

The spending in the other three categories involves finding the right balance between the impact on your bill and the service you receive. We would now like ask a few questions about your preferences when it comes to finding the right balance between costs and other outcomes.

I want to start by asking you about system renewal, that is the projects that replace aging electrical infrastructure."

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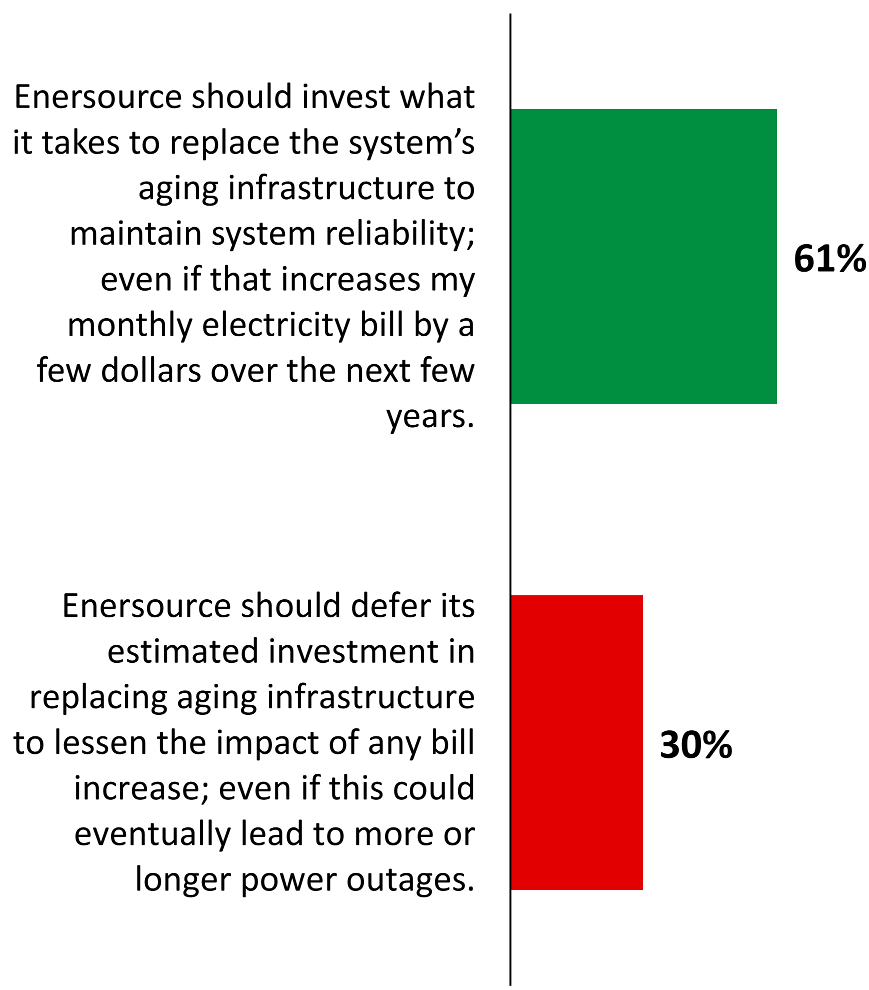
Replacing Aging Infrastructure

Residential

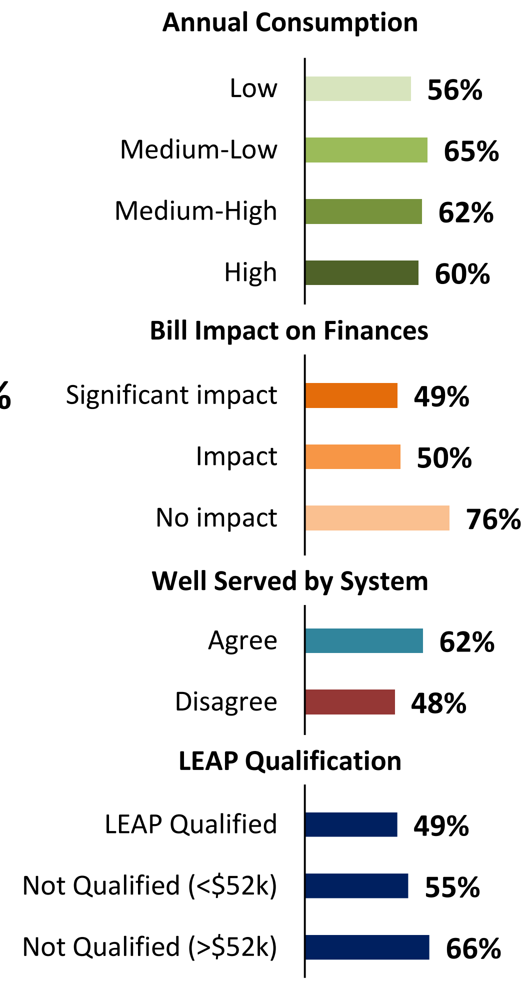
Q While Enersource works hard to prolong the life of the assets that make up Mississauga's distribution system, eventually these assets reach the end of their useful life and require replacement. Currently the average customer experiences 1.08 outages a year for an average of **35 minutes and 40 seconds**. When adjusted to remove outages due to loss of supply from the transmission system and major storms, 56% of unscheduled outages are as a result of equipment failure in the Enersource rate zone. However, it is not possible to predict exactly when a specific piece of aging equipment will fail. Enersource must decide the pace at which it replaces this aging equipment.

Which of the following statements best represents your point of view?
[asked all respondents, n=501]



Segmentation

*Those who say "**invest what it takes to maintain system reliability**":*



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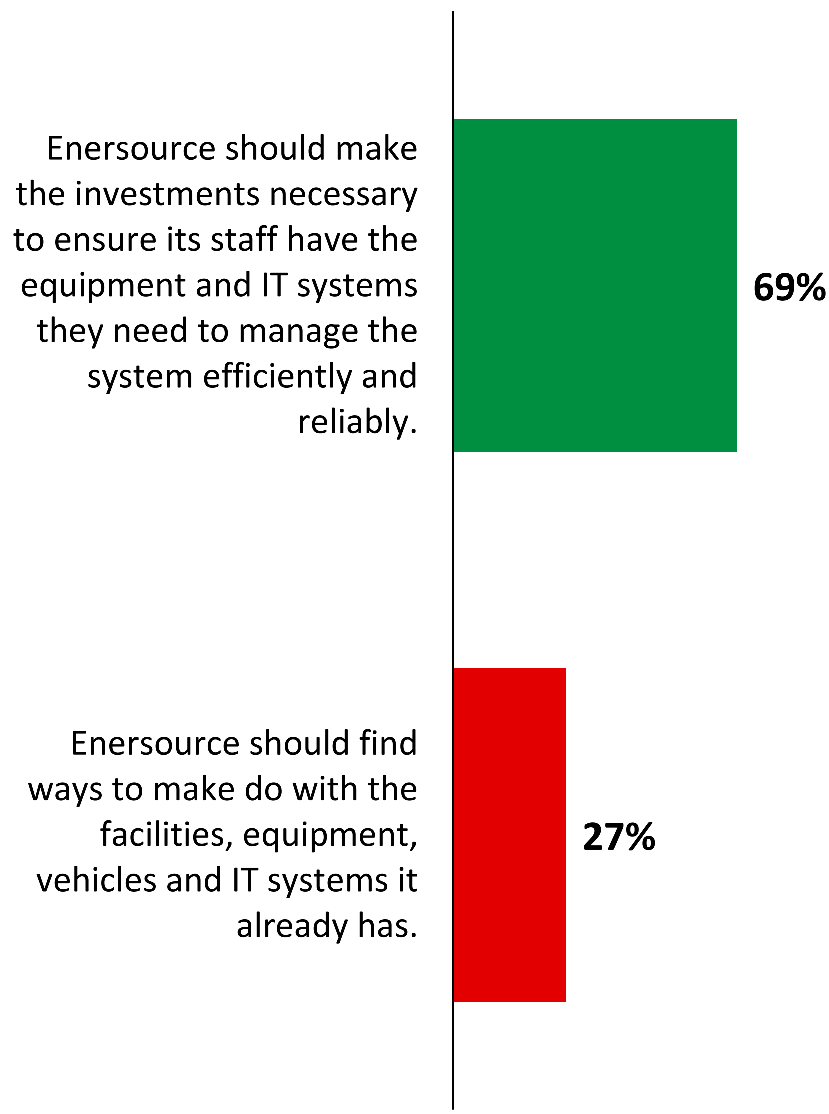
Note: 'Don't know' (6%), 'Refused' (4%) not shown.

Residential

General Plant Investments

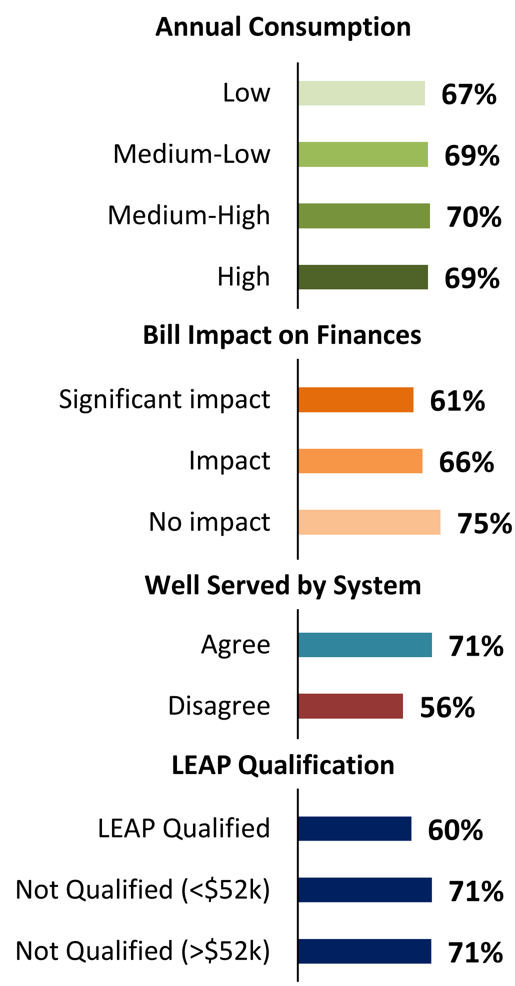
Q As a company, Enersource needs facilities to house staff and equipment, vehicles and tools to service electrical infrastructure, and IT systems to manage the distribution system and customer information..

Which of the following statements best represents your point of view?
[asked all respondents, n=501]



Segmentation

*Those who say "**make necessary investments**":*



INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (3%), 'Refused' (1%) not shown.

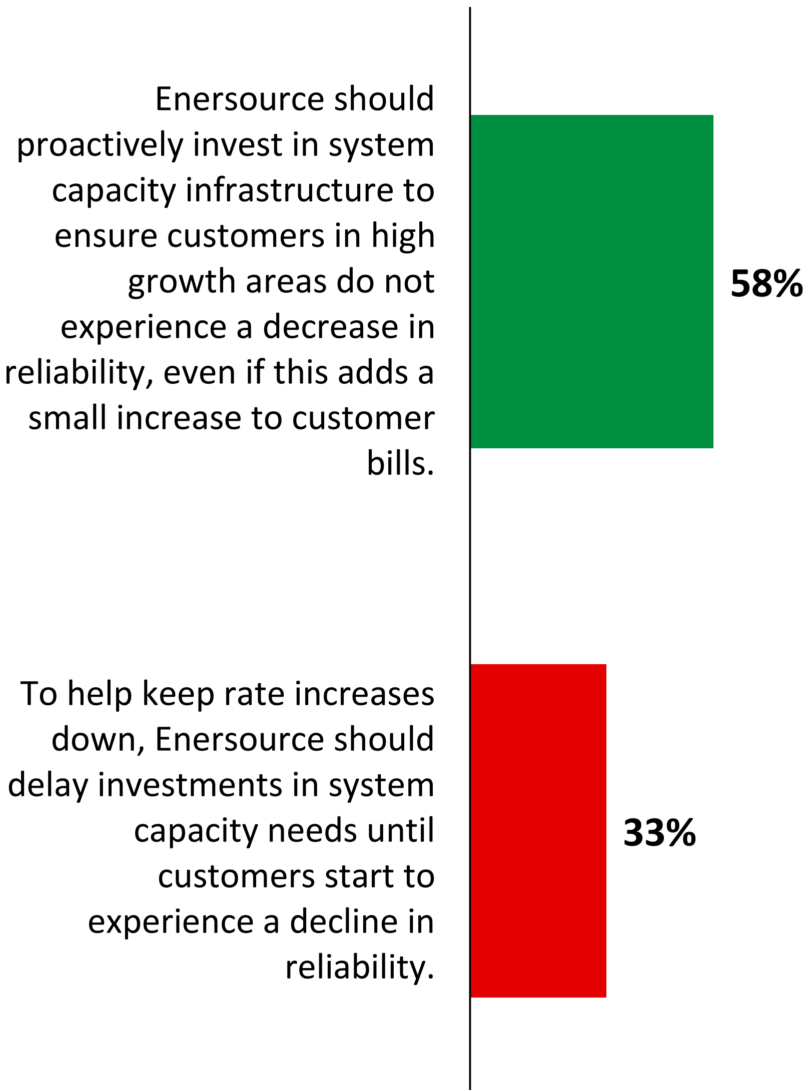
System Service Investments

Residential

Q With growth in various parts of Mississauga comes greater demand for electricity. This increased demand for electricity puts increased pressure on the existing electrical infrastructure. Eventually, further infrastructure investments will be required to support increased demand for electricity.

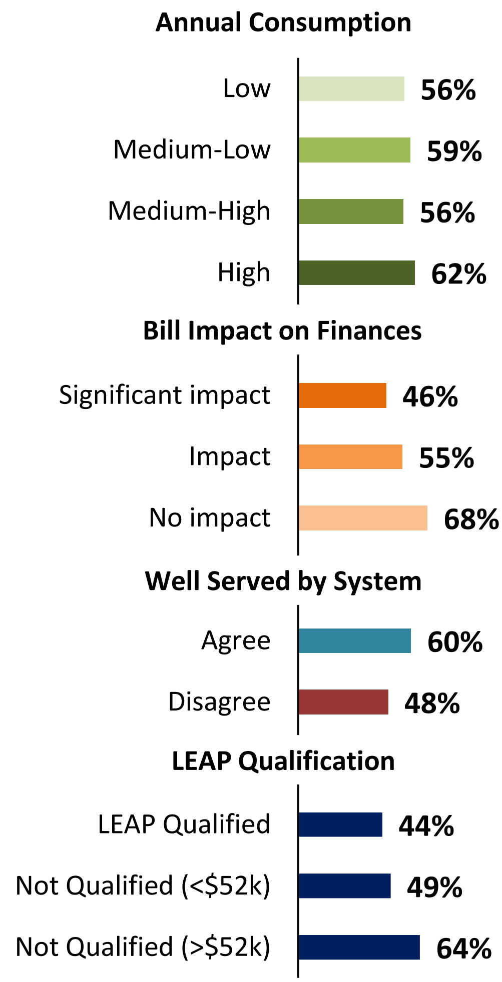
With this in mind, which of the following statements best represents your point of view?

[asked all respondents, n=501]



Segmentation

*Those who say "**proactively invest in system capacity**":*



INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (7%), 'Refused' (3%) not shown.

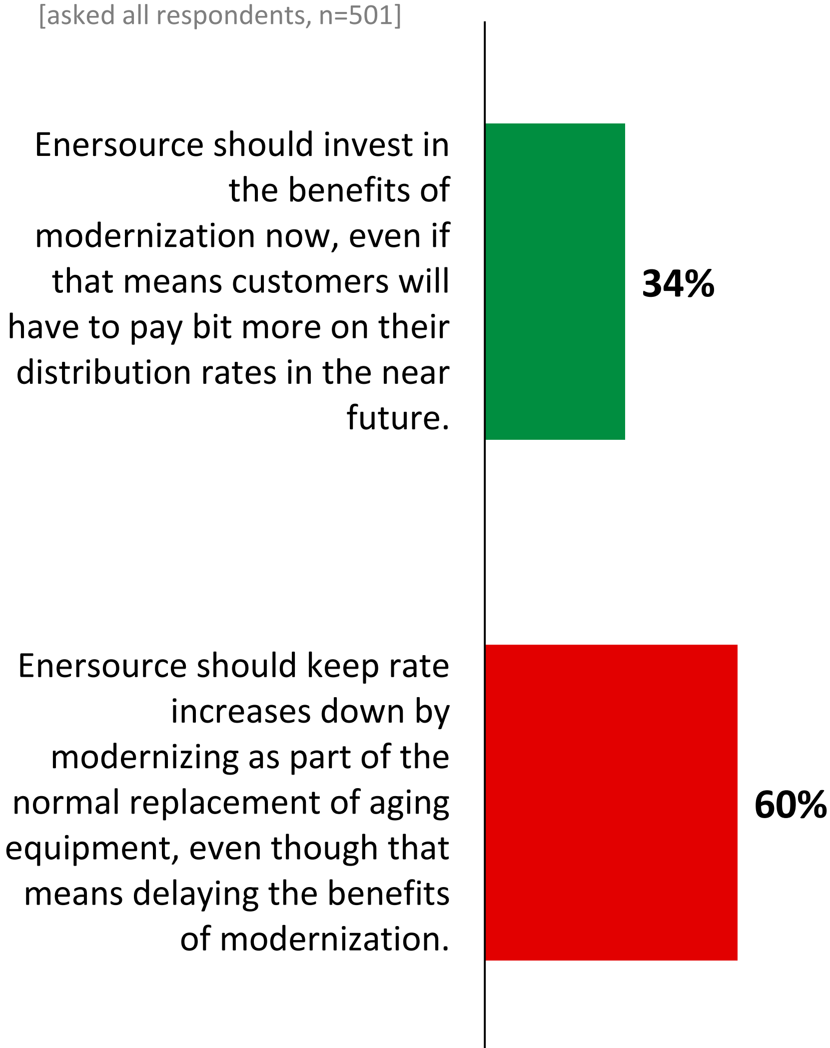
Modernizing the Distribution System

Residential

Q There are new technologies that Enersource can implement such as microgrids, electricity storage, and automatic switches that can give customers more choices, improve reliability or reduce the impact on the environment.

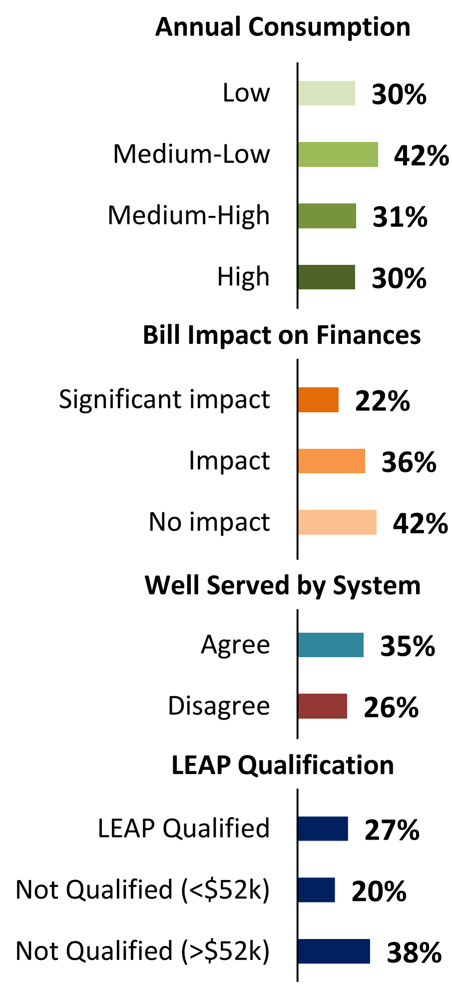
These investments would create a better grid, but are not required to maintain the reliability that you experience today.

Which of the following statements best represent your point of view?
[asked all respondents, n=501]



Segmentation ▶▶

*Those who say "**invest in modernization now**":*



INNOVATIVE RESEARCH GROUP

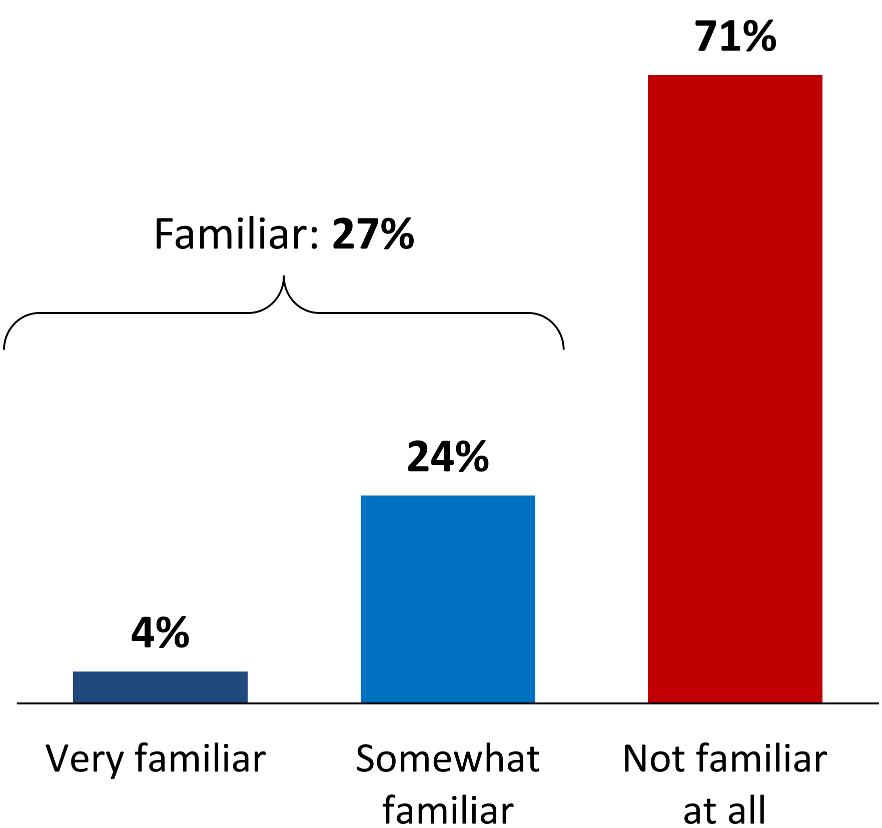
Note: 'Don't know' (5%), 'Refused' (1%) not shown.

Familiarity with OEB "Cost Saving" Requirements

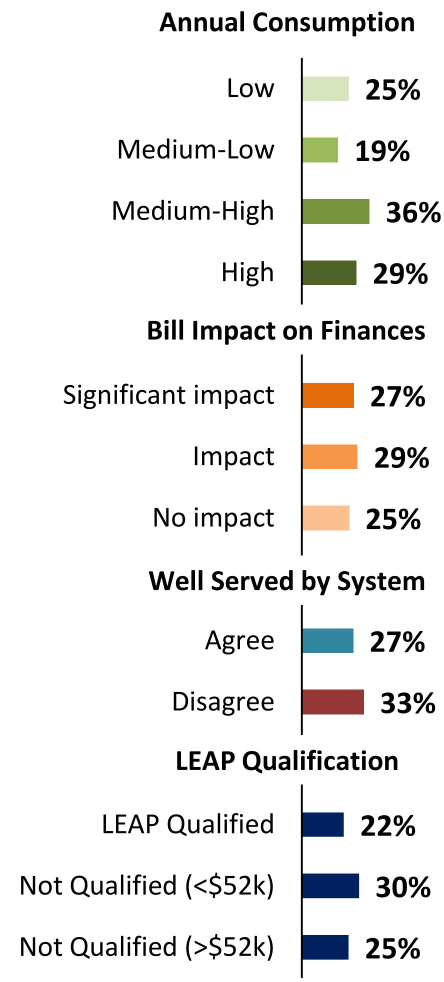
Residential

Q As we mentioned earlier, the rates you pay to Enersource are set by the OEB through a public process. Enersource's current rates were approved in a 2013 application and will be in place until 2027. Each year Enersource is permitted to increase rates to reflect inflation minus savings targets established by the OEB which requires Enersource to keep cost increases below inflation.

Before this survey, how familiar were you with the OEB requirement for Enersource to find savings every year?
[asked all respondents, n=501]



Segmentation
*Those who say "**Familiar**":*



INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (2%) not shown.

ICM Rate Impact & Leaky Transformer Preamble

Residential

"Now let's turn to our final topic – possible new projects. As part of the OEB policies, there is an option for Enersource to apply for additional rate increases for discrete projects that are prudent, needed and not supported by existing rates. Looking ahead to 2019, Enersource has identified two system renewal projects that need more investment than the existing budget allows. System renewal projects are a mix of replacing aging infrastructure and emergency repairs."

Leaky Transformers

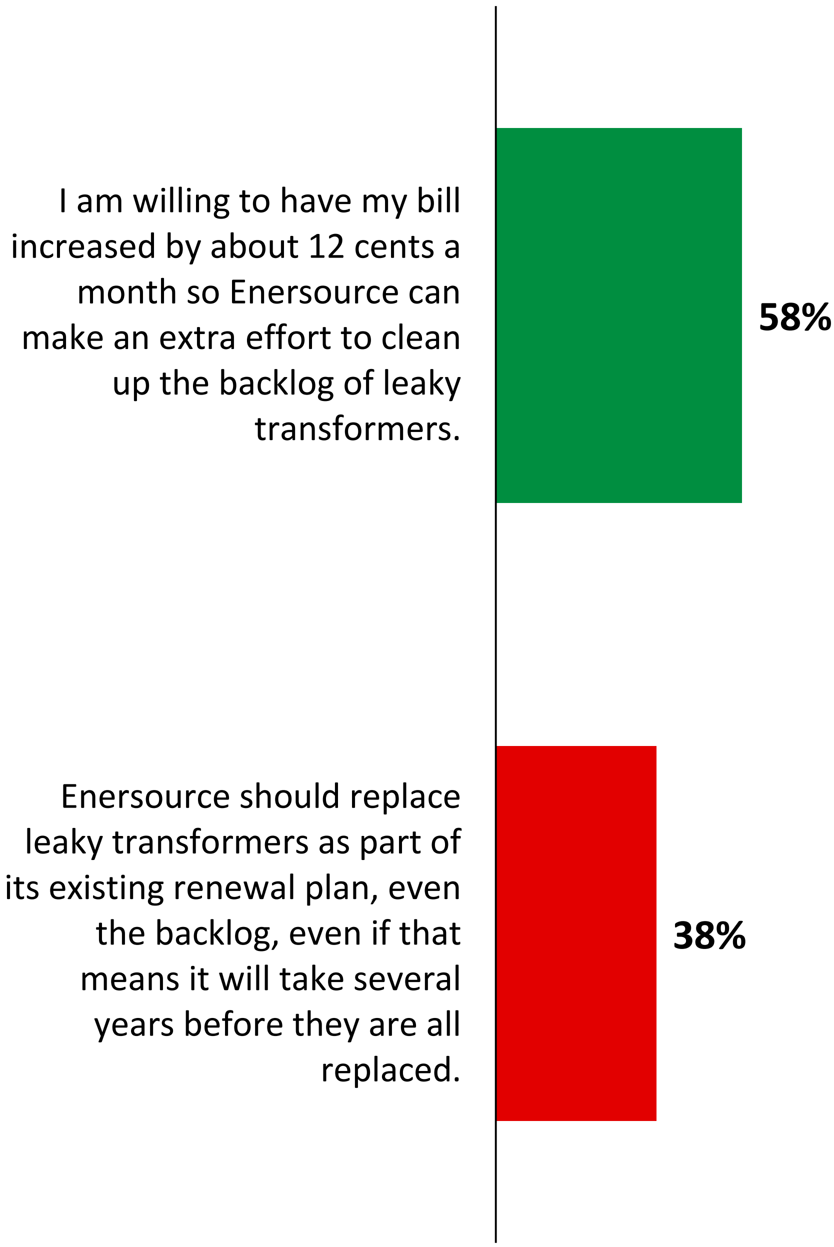
"One of these projects deals with leaky transformers. Enersource has 25,000 transformers which are used to reduce the voltage of electricity as it moves from major transmission lines to the lines going into homes and businesses. Earlier this decade, Enersource identified a backlog of almost 4,000 transformers that show signs of leaking. By the end of this year, over 3,000 of these transformers will have been replaced. However, that will still leave over 600 needing replacement."

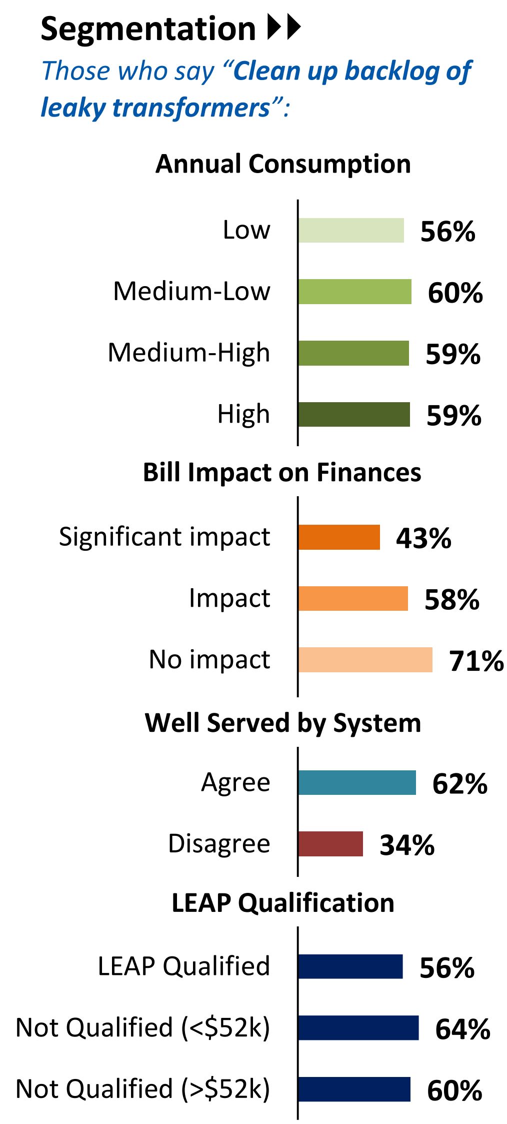
INNOVATIVE RESEARCH GROUP

Leaky Transformers

Residential

Q Which of the following is closest to your point of view regarding Ensource's proposed transformer replacement program?
[asked all respondents, n=501]





INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (3%) not shown.

Rometown Overhead Preamble

Residential

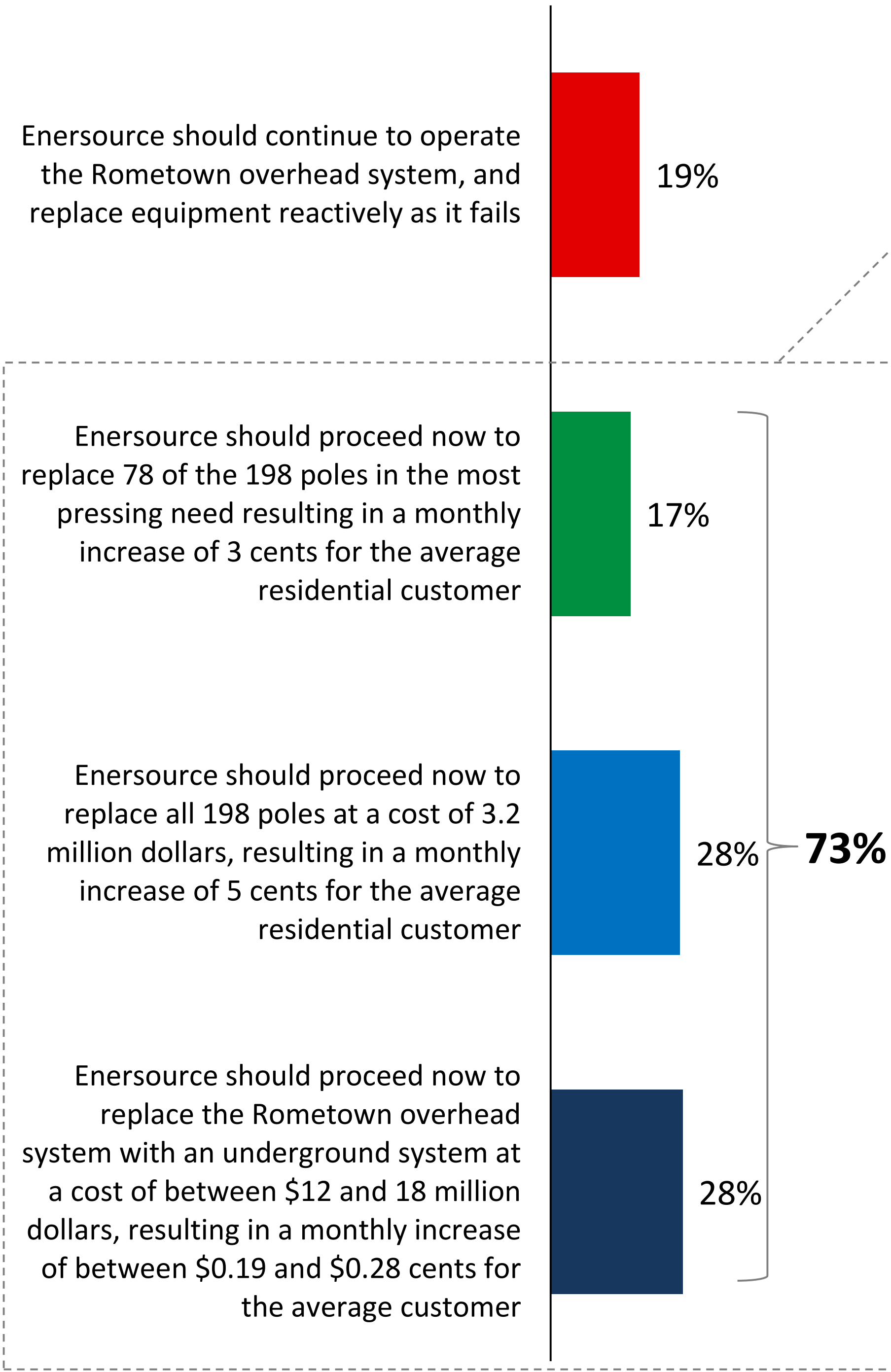
"Another proposed project addresses the Rometown area Overhead system. There are 198 poles in this particular system. 68 out of 198 have been flagged as poor while another 56 are seen to be in fair condition. A total of 78 have been flagged for urgent replacement. This network of poles uses older technologies that will be replaced when the system is eventually rebuilt, but any repairs done today will have to use the older technology. It is more efficient to replace all the poles at once than to replace them one at a time but it costs less in the short run only to replace the poles most in need of repair."

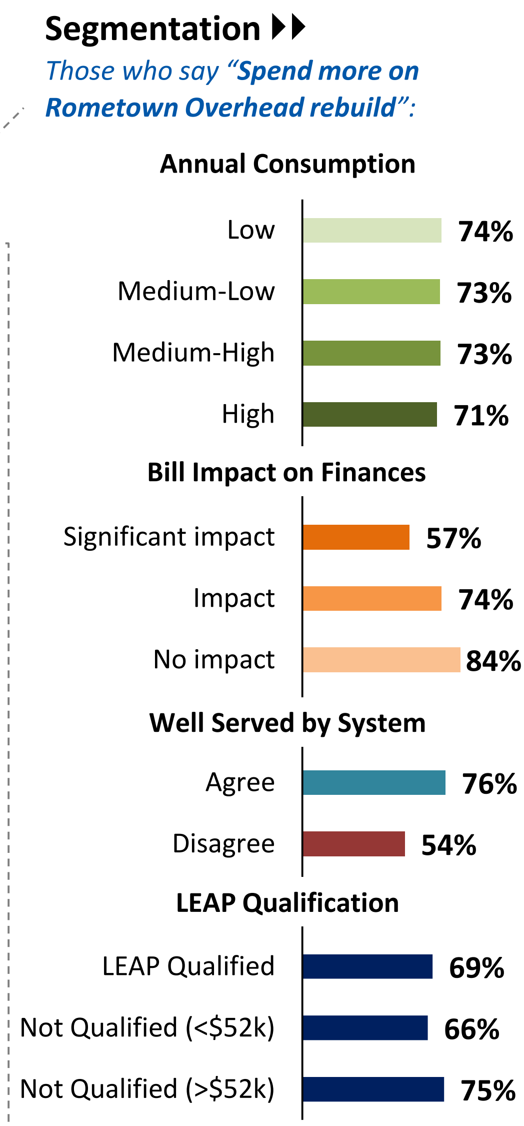
INNOVATIVE RESEARCH GROUP

Rometown Overhead

Residential

Q Which of the following is closest to your point of view regarding Ensource's proposed Rometown Overhead system rebuild program?
[asked all respondents, n=501]





INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (8%) not shown.

Opinion of Proposed ICM Rate Impact

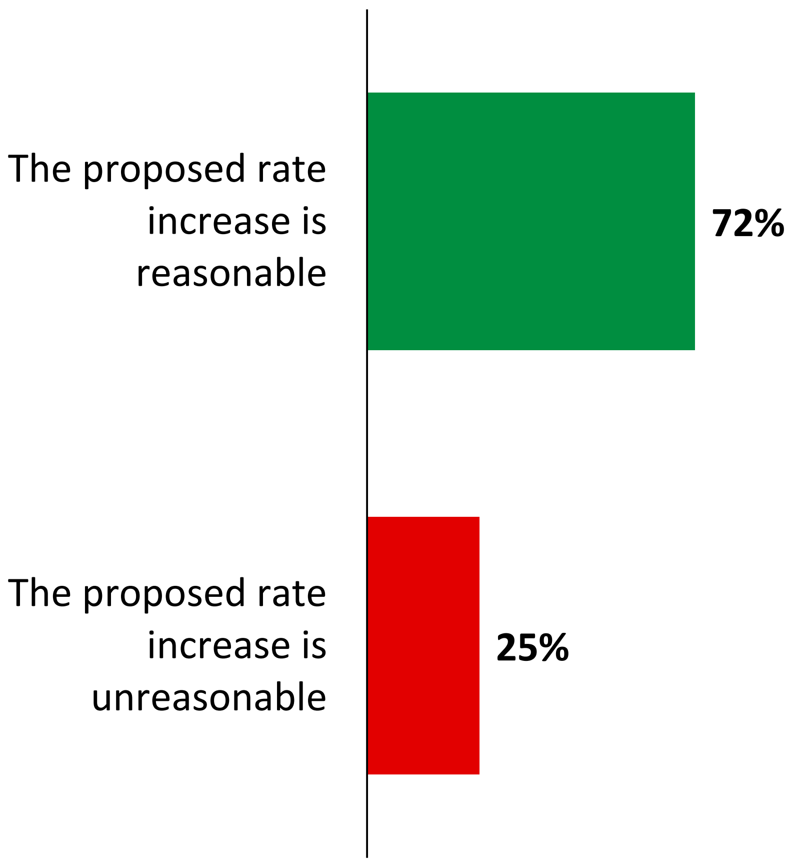
Residential

Q As I mentioned earlier, each year Enersource is permitted to increase rates to reflect inflation minus a stretch factor which requires Enersource to find savings to keep cost increases below inflation. In order to reduce the backlog of leaking transformers and to replace the most high risk poles in the Rometown overhead system, Enersource would need to add a 15 cent charge to the typical residential customers monthly electricity bill, from 2019 to 2026.

That would result in an annual increase of $1.76 each year over the course of the next eight years – *totalling $14.11 over that period.*

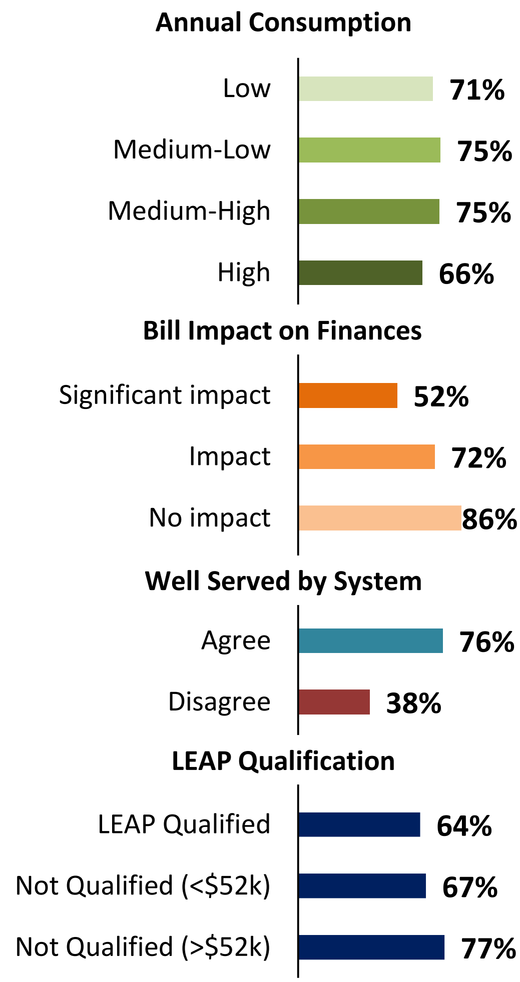
What is your opinion on this proposed rate increase in 2019?

[asked all respondents, n=501]



Segmentation

*Those who say "**Rate increase is reasonable**":*



INNOVATIVE RESEARCH GROUP

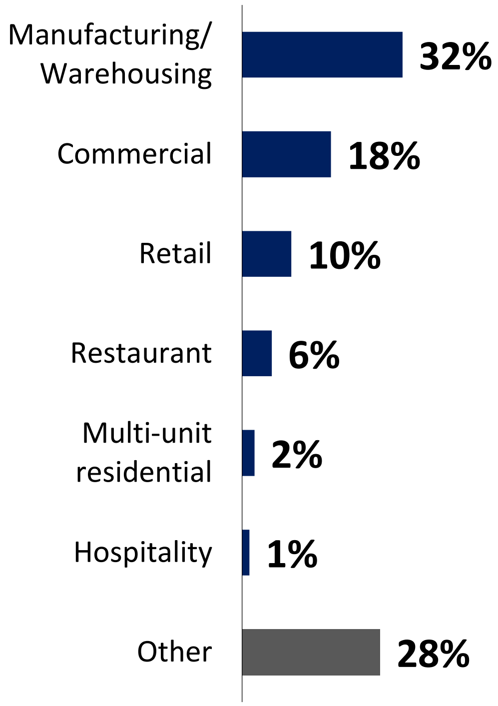
Note: 'Don't know' (3%), 'Refused' (1%) not shown.

Small Business Rate Class

Segmentation & Firmographics

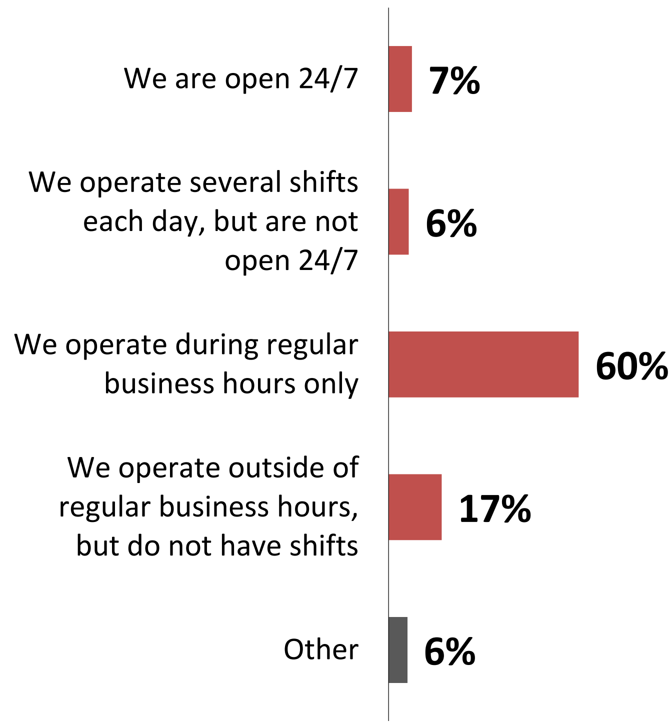
Small Business

Sector



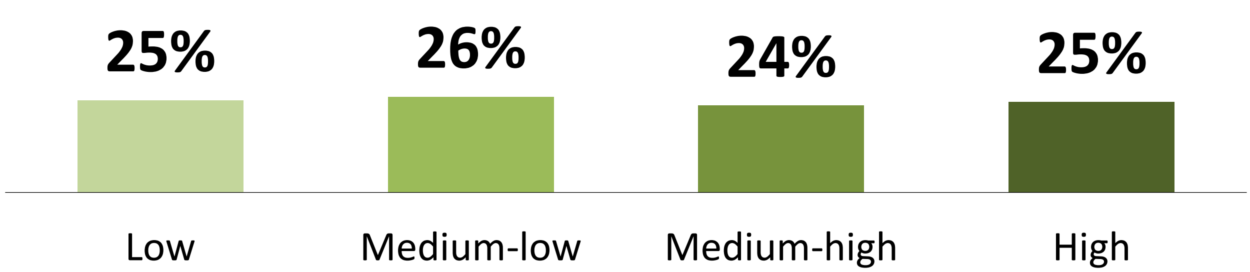
Note: Don’t know (2%) not shown.

Hours of Operation



Note: Don’t know (3%) not shown.

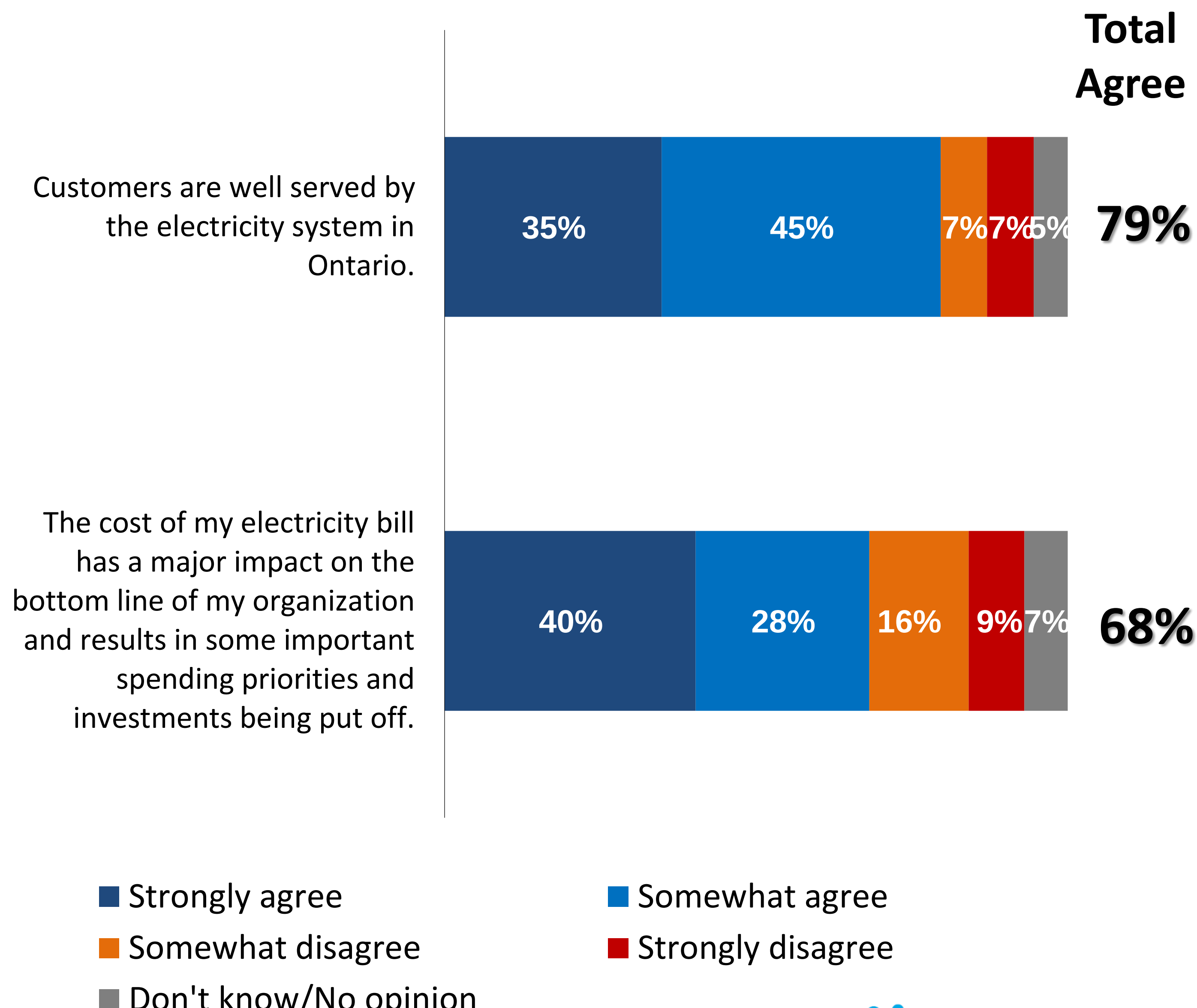
Annual Consumption



Segmentation & Firmographics

Small Business

For each statement please tell me if you would strongly agree, somewhat agree, somewhat disagree or strongly disagree. If you don't know enough to say or don't have an opinion just let me know.
[asked all respondents, n=202]



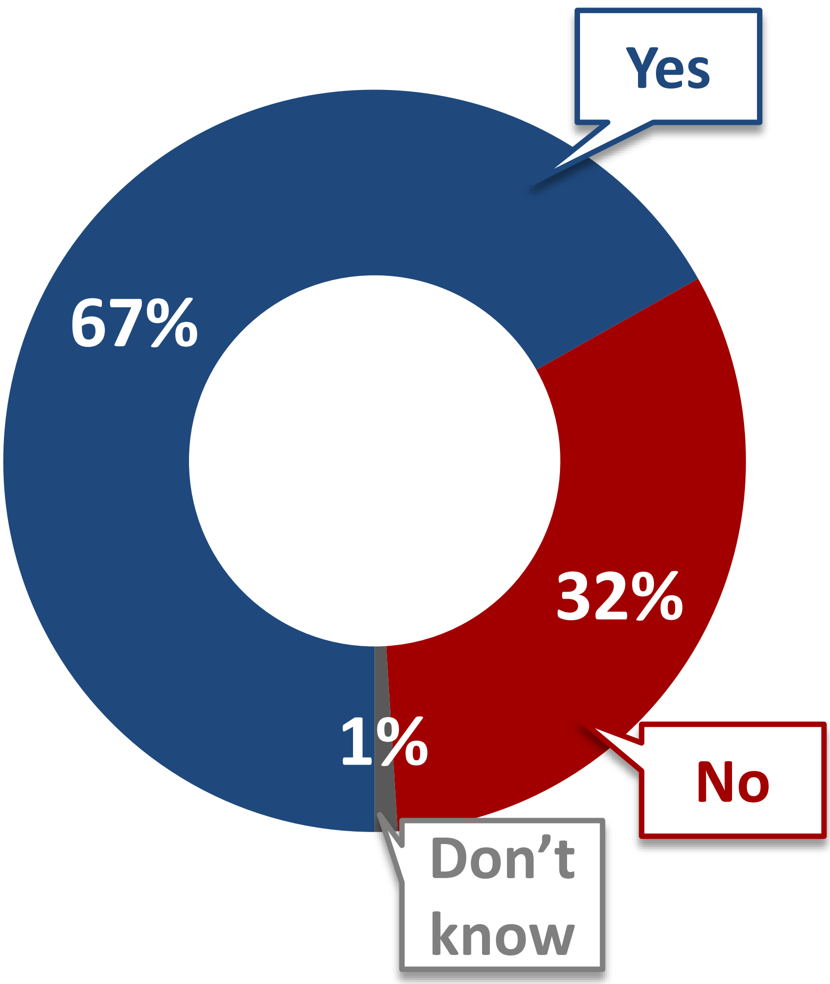
INNOVATIVE RESEARCH GROUP

Awareness of Merger

Small Business

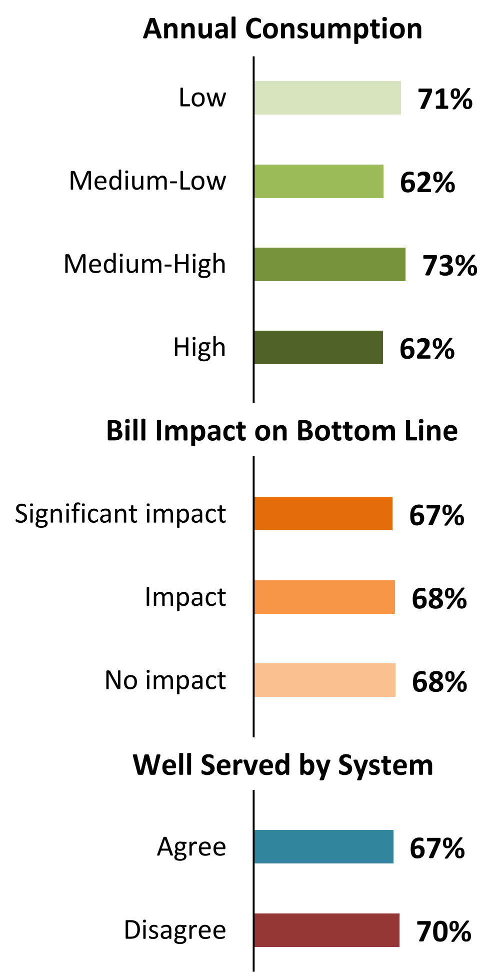
Q You may have recently heard that Enersource has merged with neighbouring electricity distributors to form a new company called Alectra Utilities.

Had you heard of the Alectra Utilities merger before this survey?
[asked all respondents, n=202]



Segmentation ▶▶

*Those who say "**Heard of merger**":*



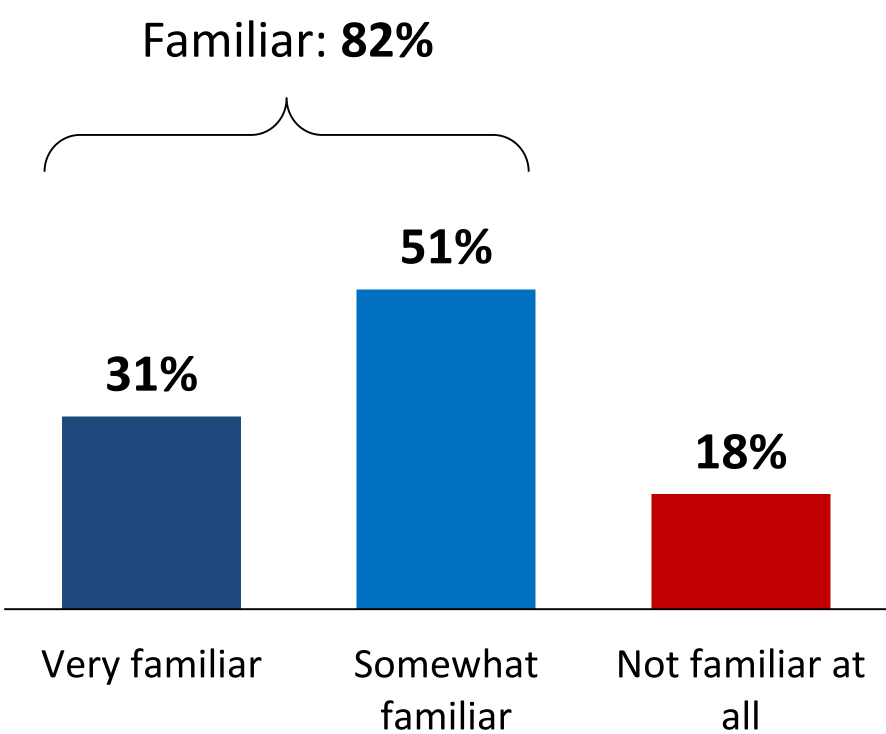
INNOVATIVE RESEARCH GROUP

Familiarity with Enersource

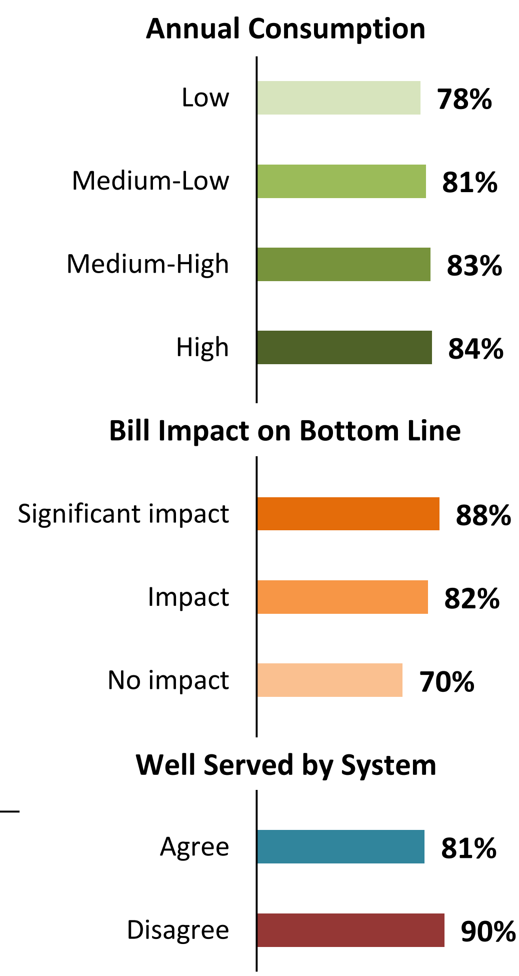
Small Business

Q First, let's talk about your experience. As you may know, Enersource operates and maintains the local electricity distribution system in Mississauga. This is the system that takes the electricity from provincial transmission lines and brings it to your home through a network of wires, poles and other equipment that is owned and operated by Enersource.

How familiar are you with Enersource?
[asked all respondents, n=202]



Segmentation ▶▶
*Those who say "**Familiar**":*

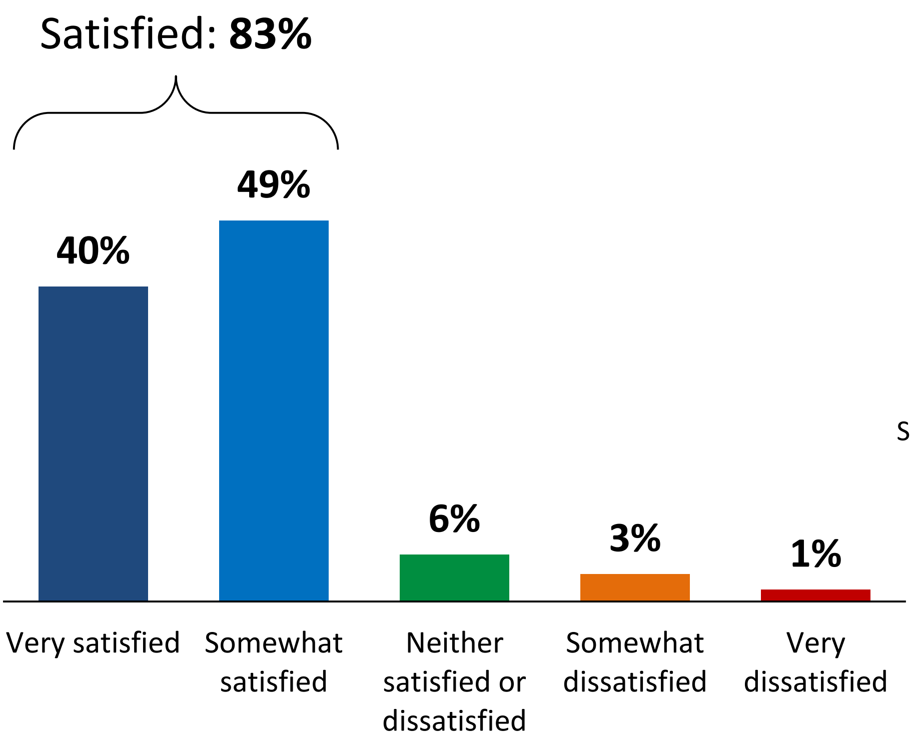


INNOVATIVE RESEARCH GROUP

Satisfaction with Services

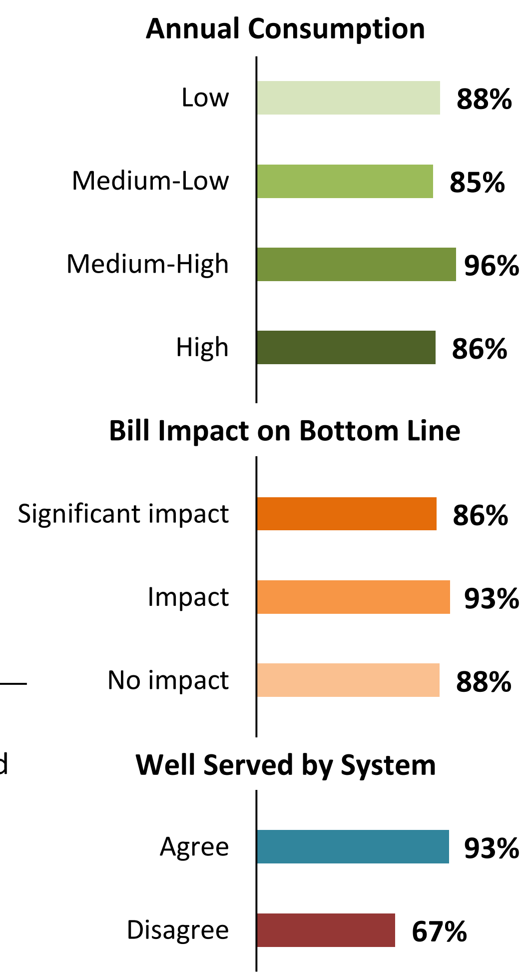
Small Business

Q In general, how satisfied or dissatisfied are you with the services your organization receives from Enersource? Would you say you are very satisfied, somewhat satisfied, somewhat dissatisfied, or very dissatisfied?
[asked all respondents, n=202]



Segmentation ▶▶

*Those who say "**Satisfied**":*

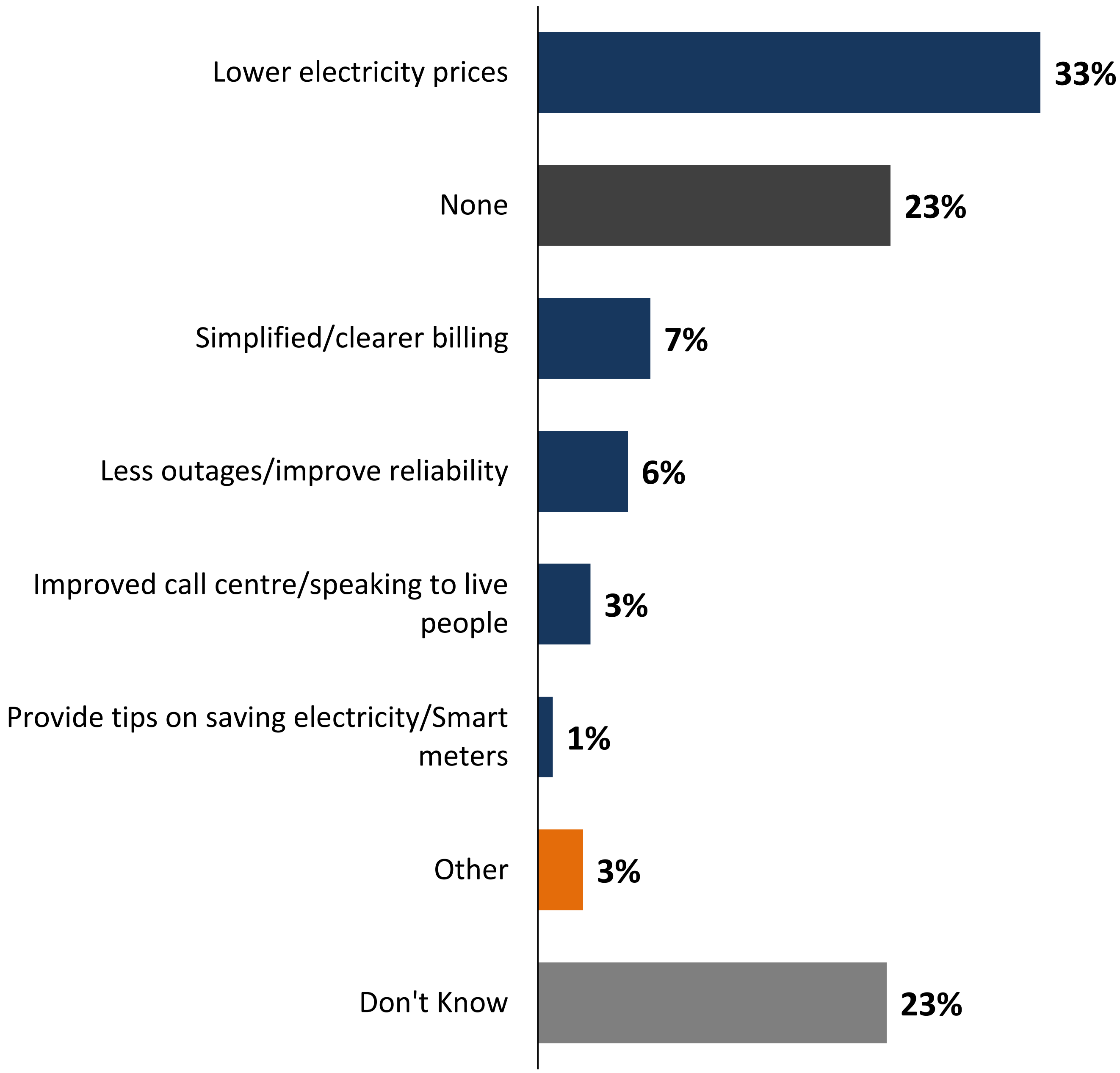


INNOVATIVE RESEARCH GROUP

Suggestions for Improvements

Small Business

Q Is there anything in particular Enersource can do to improve its service to your organization?
[asked all respondents, n=202]



INNOVATIVE RESEARCH GROUP

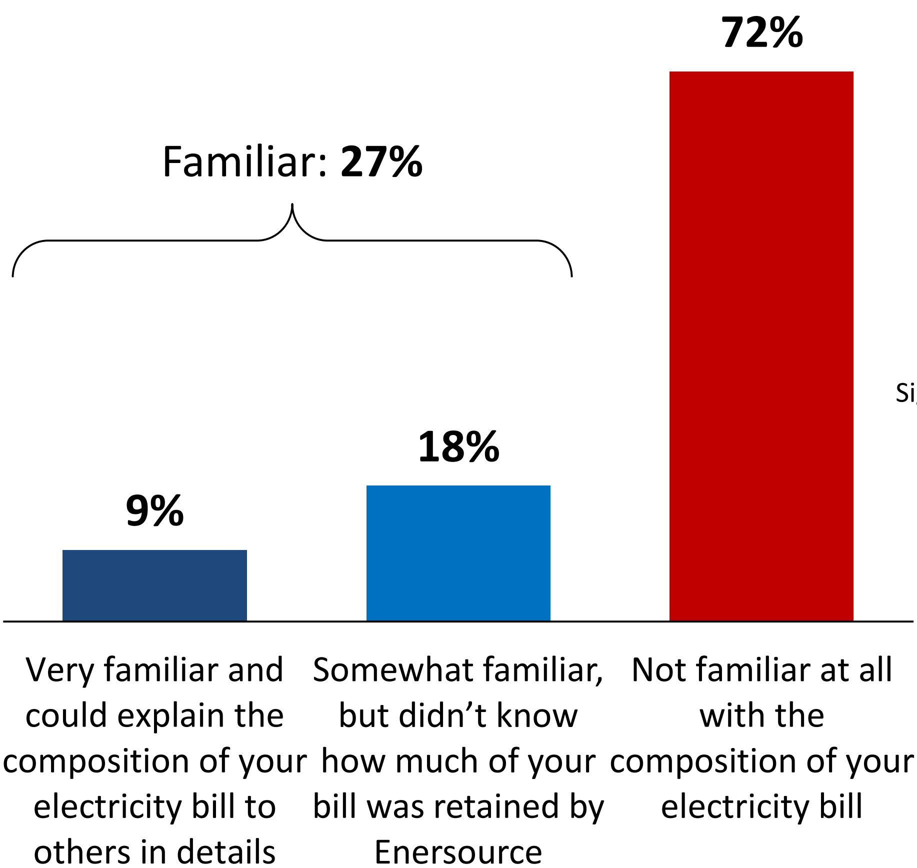
Familiarity with Amount of Electricity Bill Remitted

Small Business

Q I'd now like to talk with you about your electricity bill … While Enersource is responsible for collecting payment for the entire electricity bill, they retain about 24% of the typical small business customer's bill. This is about $73.33 on an average $306.98 monthly small business electricity bill. The rest of the bill goes to power generation companies, transmission companies, the provincial government and regulatory agencies.

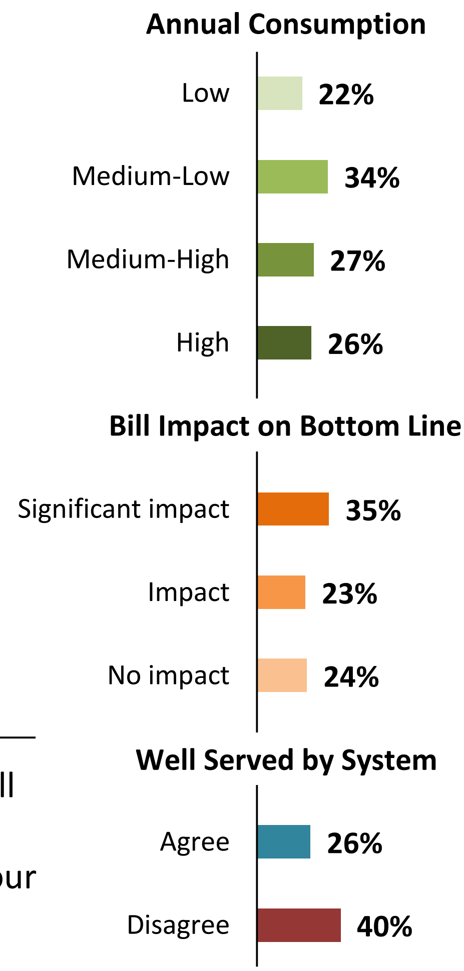
Before this survey, how familiar were you with the percentage of your organization's electricity bill that is retained by Enersource?

[asked all respondents, n=202]



Segmentation

*Those who say "**Familiar**":*



INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (<1%) not shown.

Customer Priorities

Small Business

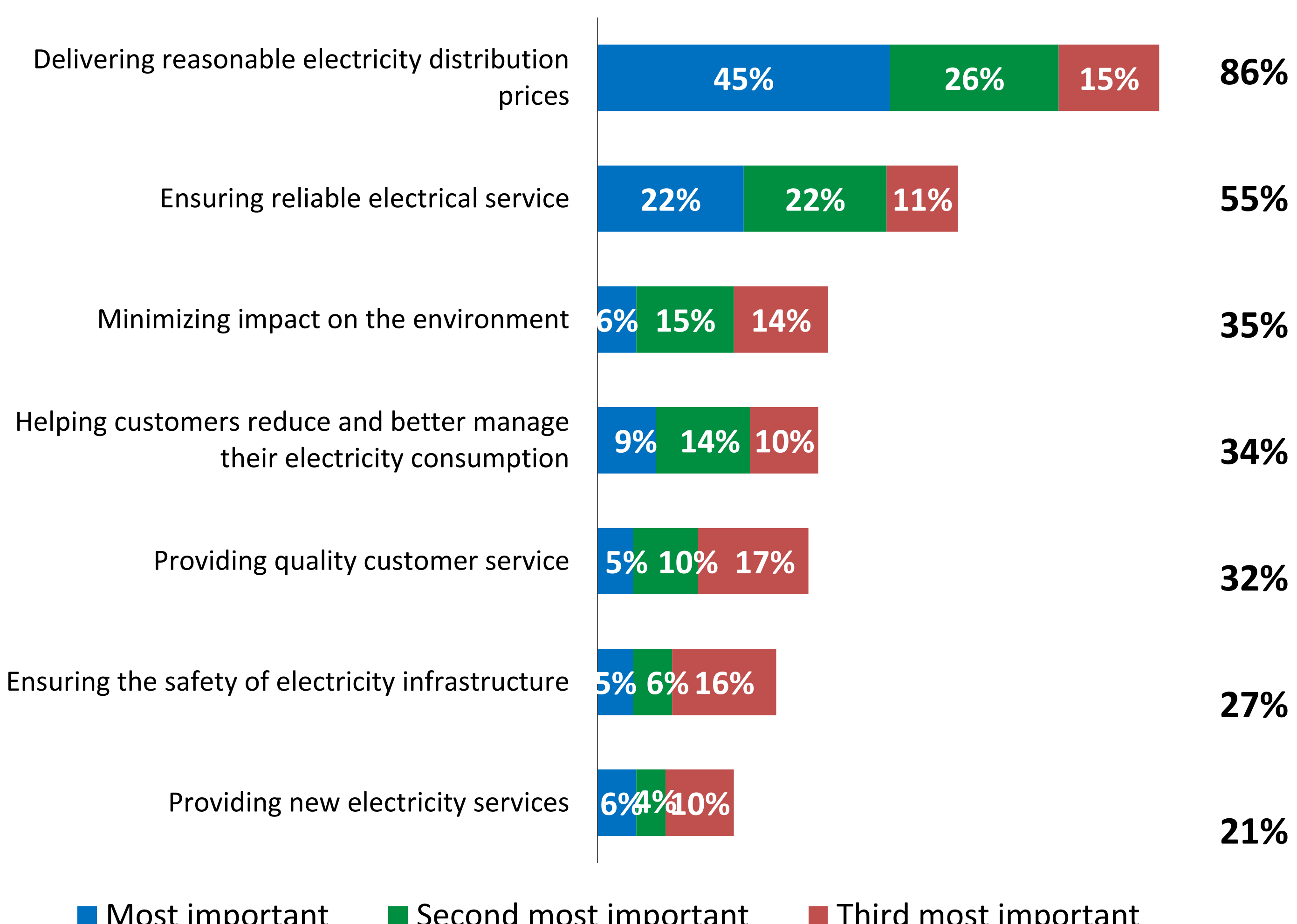
Q Now lets talk about our second topic – outcomes. Enersource regularly holds discussions with its customers to better understand how it should set spending priorities with the money customers pay for service.

In recent conversations with customers, a number of company goals were identified as key priorities for Enersource.

Among the following Enersource priorities, please tell me which one is most important to you.

[asked all respondents, n=202, percentages are calculated based on the full sample]

Top 3 Priority

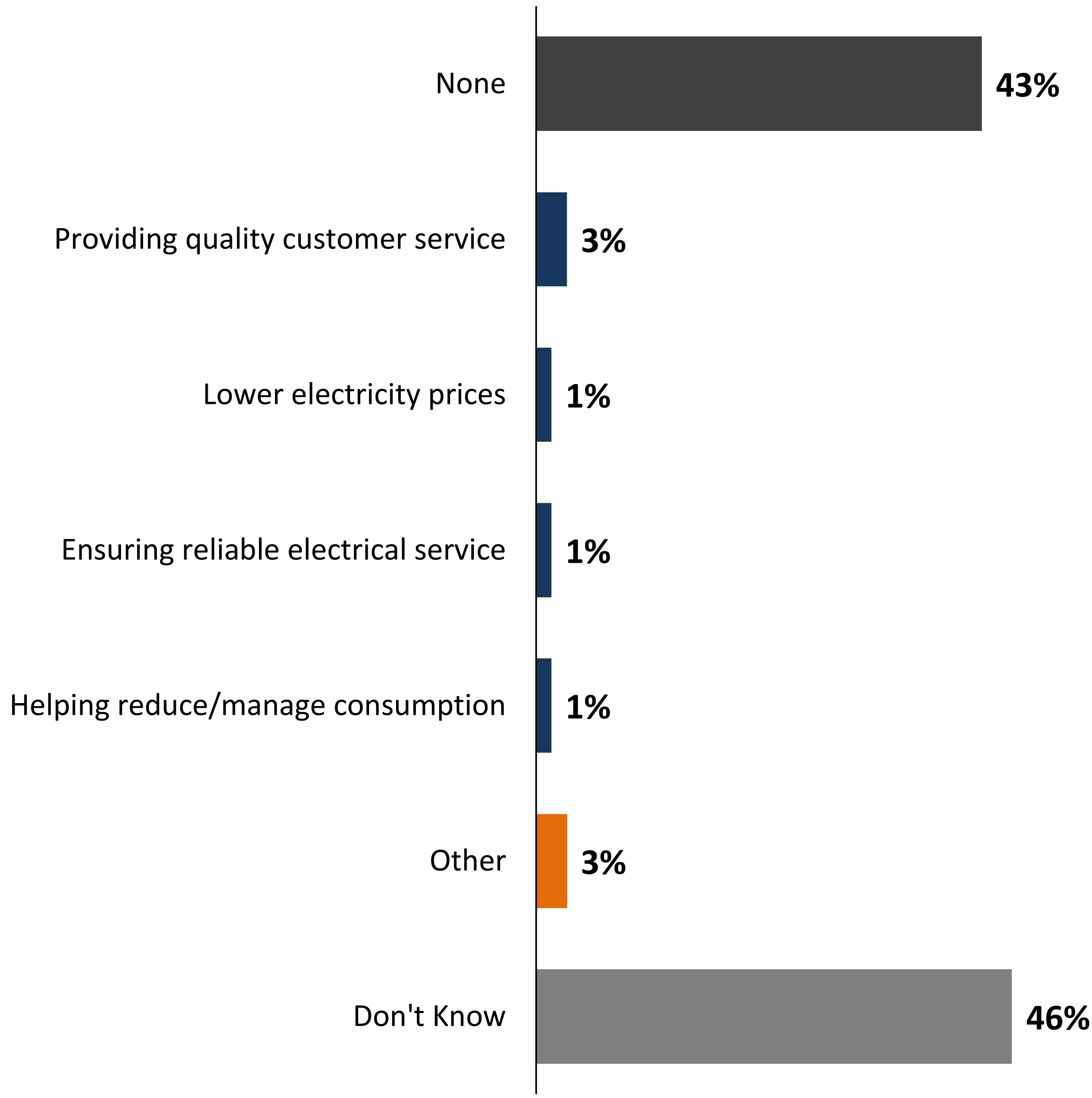


INNOVATIVE RESEARCH GROUP

Additional Priorities

Small Business

Q Are there any other important priorities that Enersource should be focusing on that weren’t included in the previous list I read to you?
[asked all respondents, n=202]



INNOVATIVE RESEARCH GROUP

System Reliability

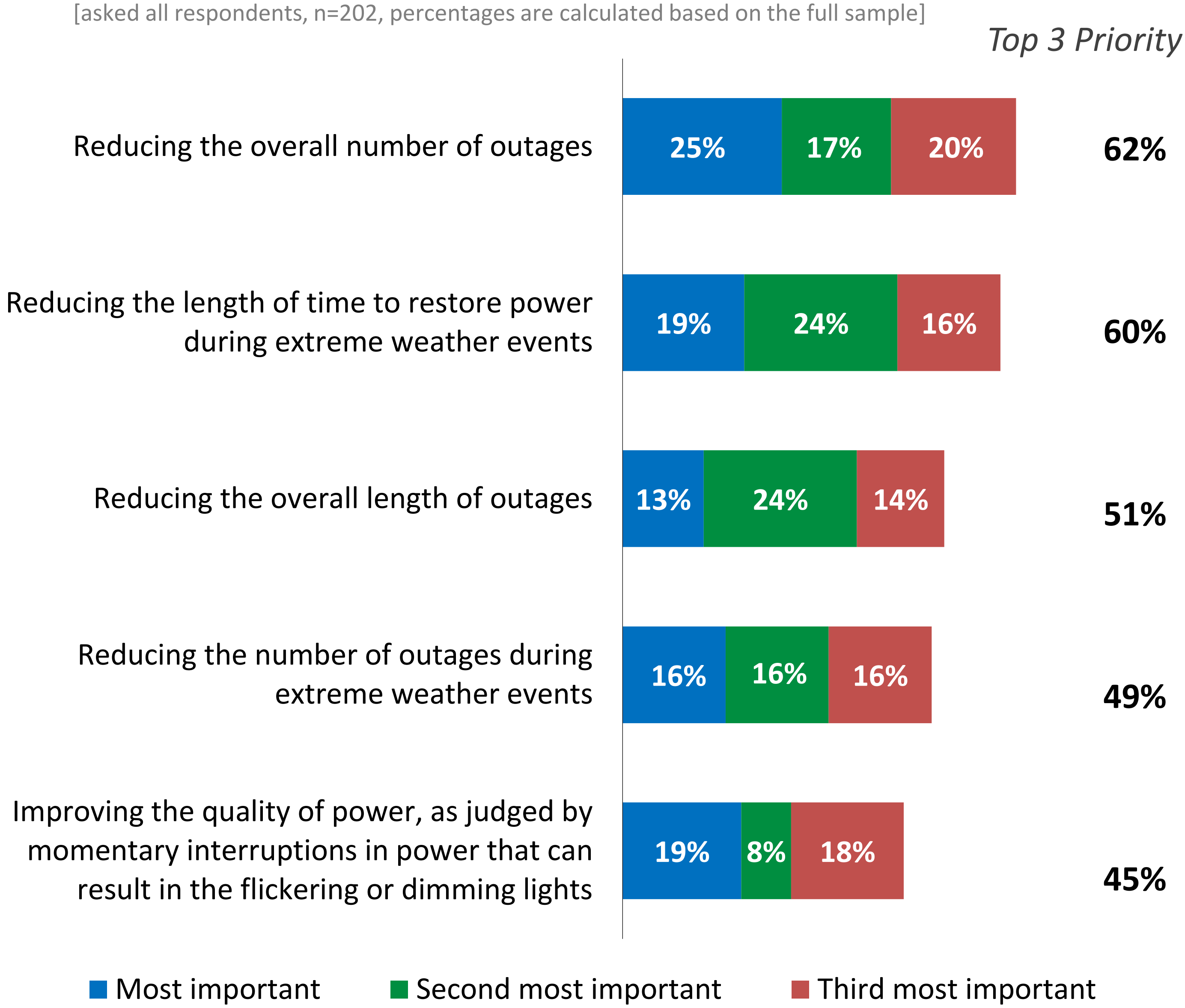
Small Business

Q We would like to understand your experience with reliability.

There are different outcomes when customers talk about power reliability.

Among the following reliability outcomes, please tell me which one is most important to you.

[asked all respondents, n=202, percentages are calculated based on the full sample]



INNOVATIVE RESEARCH GROUP

Familiarity with how Electricity Rates are Set

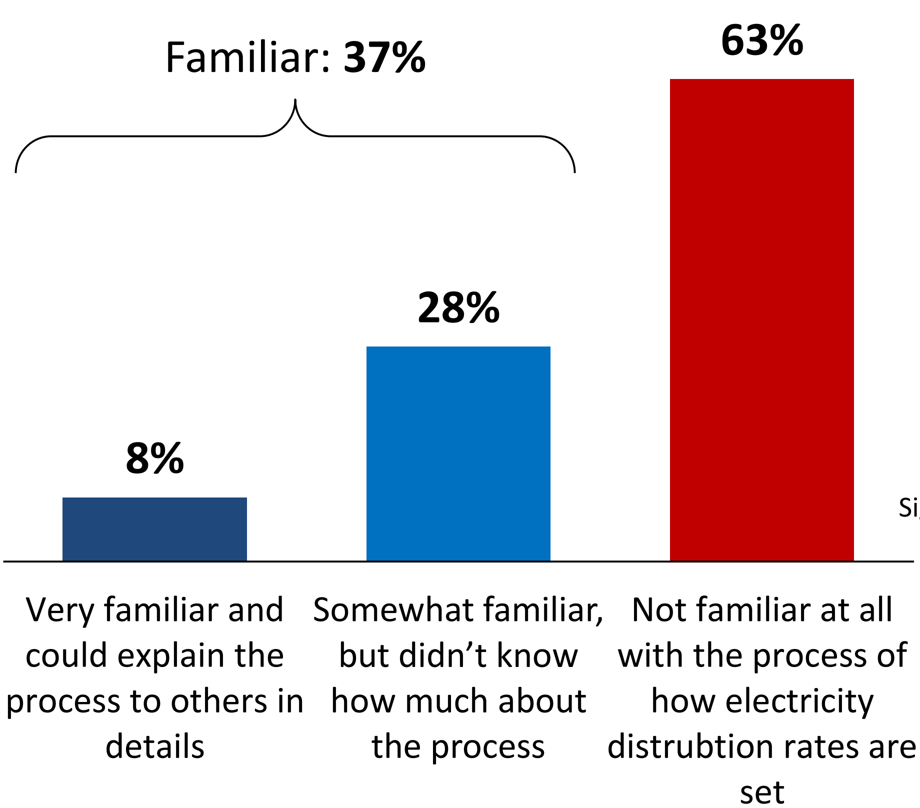
Small Business

Q *Now, lets turn to our third topic, investment trade-offs.* The electricity industry in Ontario is regulated by the Ontario Energy Board, otherwise known as the O-E-B. The OEB sets electricity rates in Ontario.

The OEB requires electricity distributors, such as Alectra Utilities, to develop its business plan and distribution system plan, as well as make spending and investment decisions based on customer feedback.

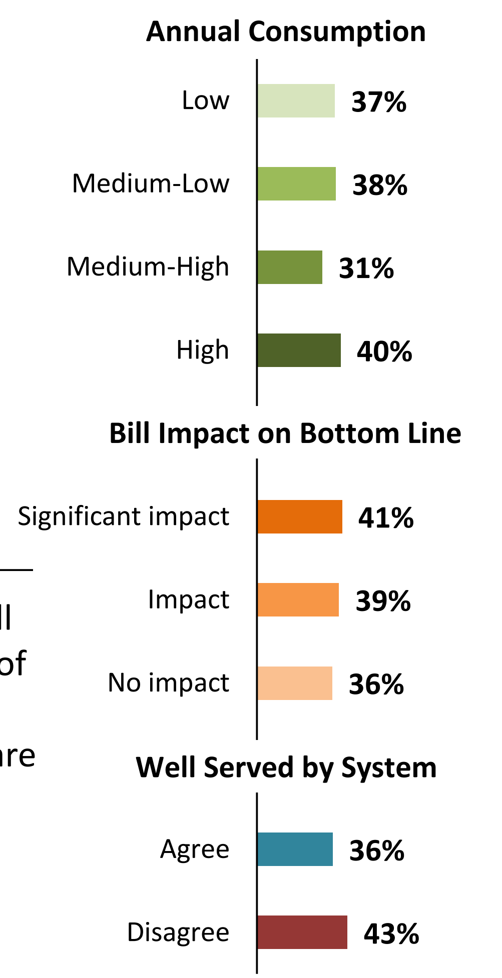
Electricity distributors are funded by the distribution rates paid by their customers. Periodically, distributors are required to file rate applications with the OEB to justify the amount of funding they need to safely and reliably distribute electricity to their customers.

Before this survey, how familiar were you with how electricity distribution rates are set in Ontario?
[asked all respondents, n=202]



Segmentation

*Those who say "**Familiar**":*



Investment Trade-Off Preamble

Small Business

"Alectra Utilities is now starting to create its first overall investment plan as a merged utility. The OEB divides electricity distributor investments into four categories. One category called system access includes investments that are mandatory under the distributor's licence to operate. These include reasonable costs to connect new customers and moving existing infrastructure to accommodate civic improvements.

The spending in the other three categories involves finding the right balance between the impact on your bill and the service you receive. We would now like ask a few questions about your preferences when it comes to finding the right balance between costs and other outcomes.

I want to start by asking you about system renewal, that is the projects that replace aging electrical infrastructure."

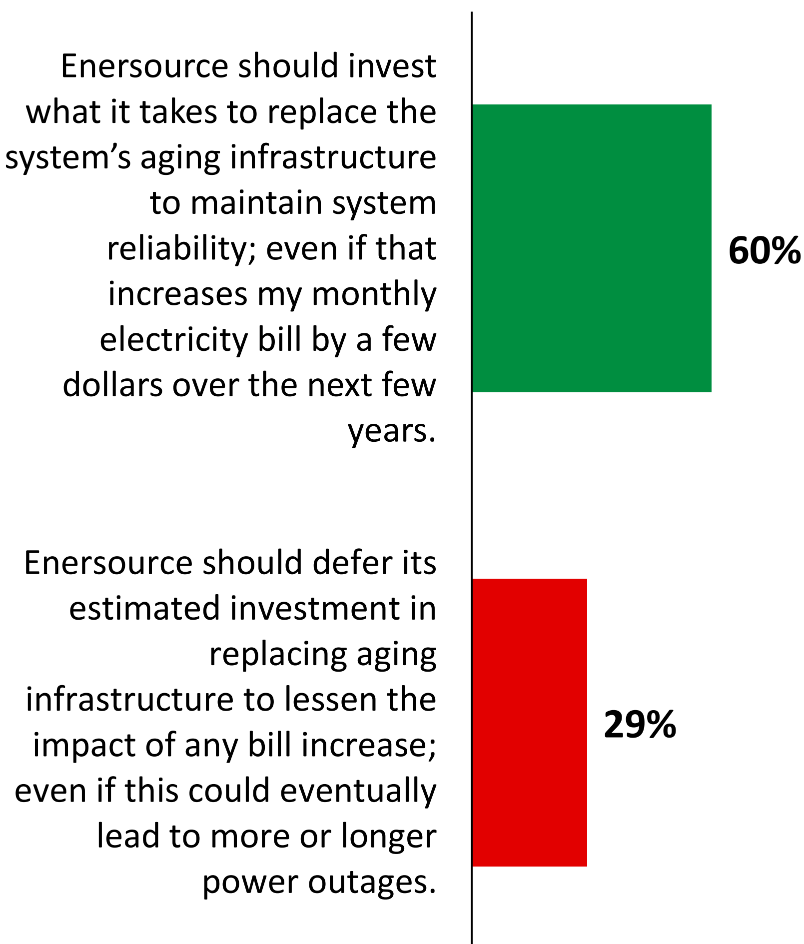
INNOVATIVE RESEARCH GROUP

Investments in Aging Infrastructure

Small Business

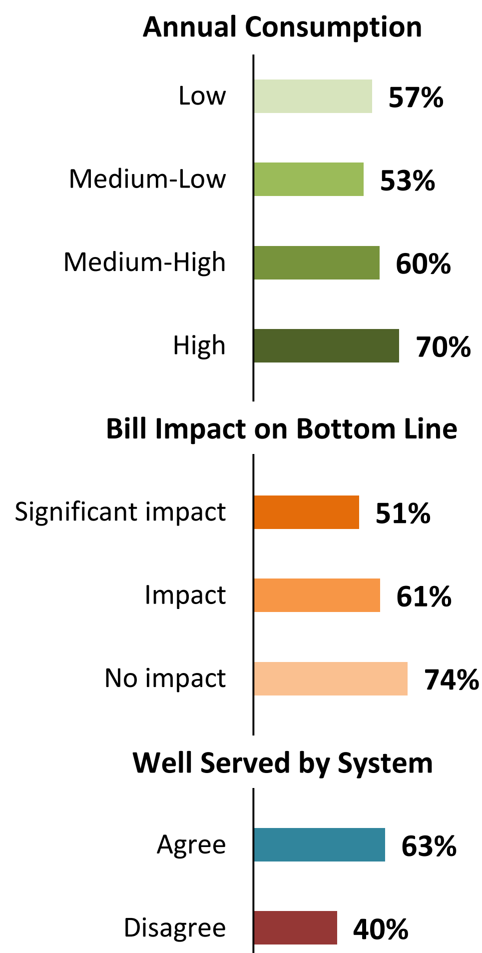
Q While Enersource works hard to prolong the life of the assets that make up Mississauga's distribution system, eventually these assets reach the end of their useful life and require replacement. Currently the average customer experiences 1.08 outages a year for an average of **35 minutes and 40 seconds**. When adjusted to remove outages due to loss of supply from the transmission system and major storms, 56% of unscheduled outages are as a result of equipment failure in the Enersource rate zone. However, it is not possible to predict exactly when a specific piece of aging equipment will fail. Enersource must decide the pace at which it replaces this aging equipment.

Which of the following statements best represents your point of view?
[asked all respondents, n=202]



Segmentation ▶▶

*Those who say "**invest what it takes to maintain system reliability**":*



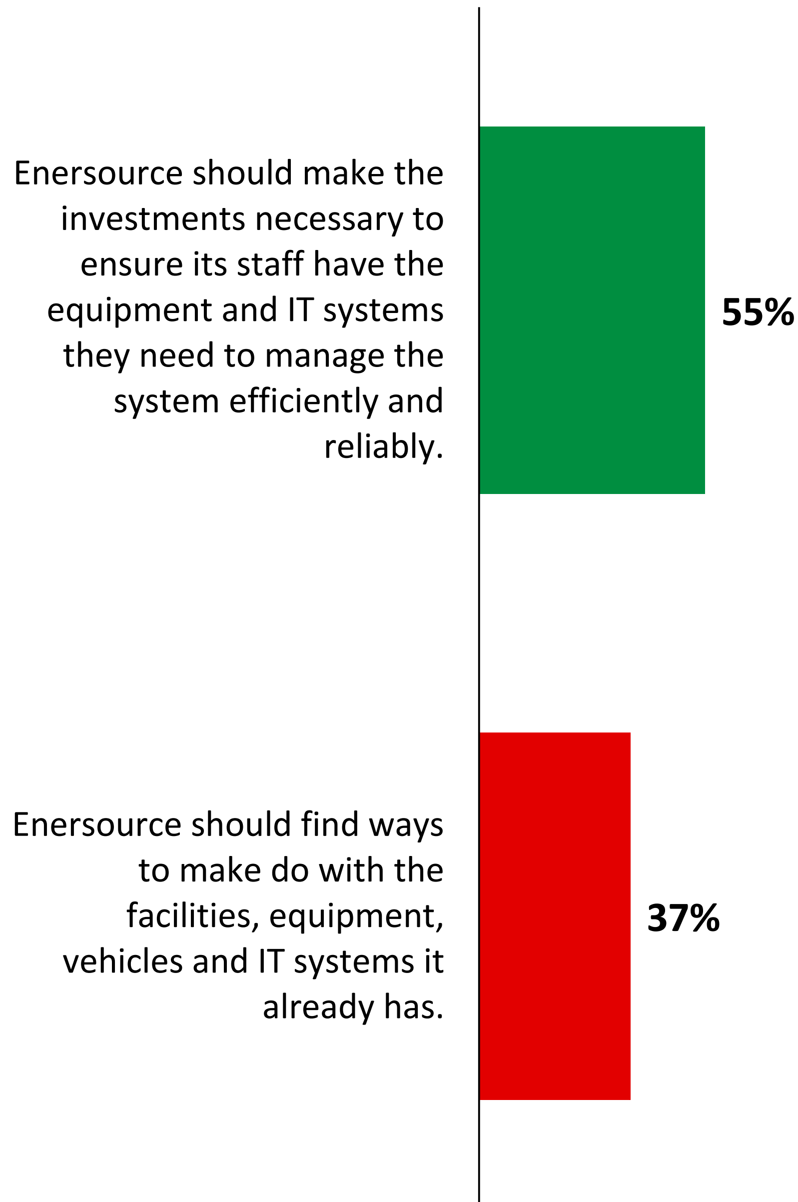
Note: 'Don't know' (7%), 'Refused' (4%) not shown.

General Plant Investments

Small Business

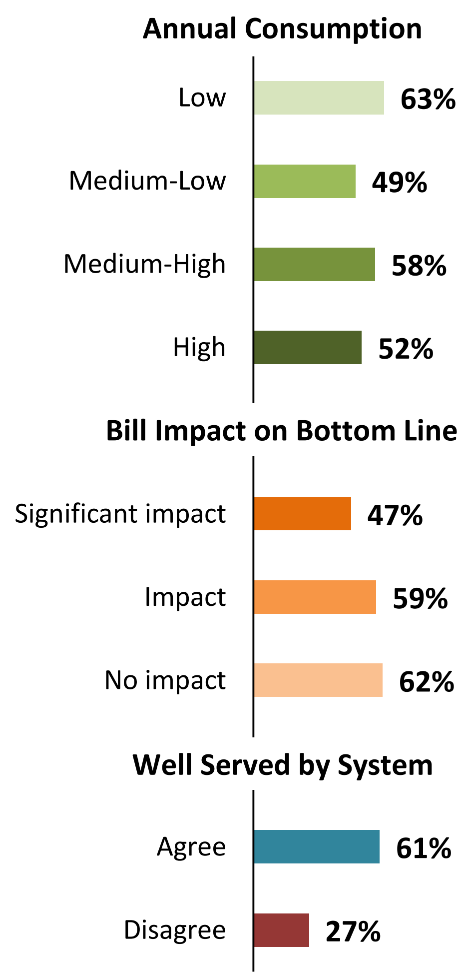
Q As a company, Enersource needs facilities to house staff and equipment, vehicles and tools to service electrical infrastructure, and IT systems to manage the distribution system and customer information..

Which of the following statements best represents your point of view?
[asked all respondents, n=202]



Segmentation

*Those who say “**make necessary investments**”:*



INNOVATIVE RESEARCH GROUP

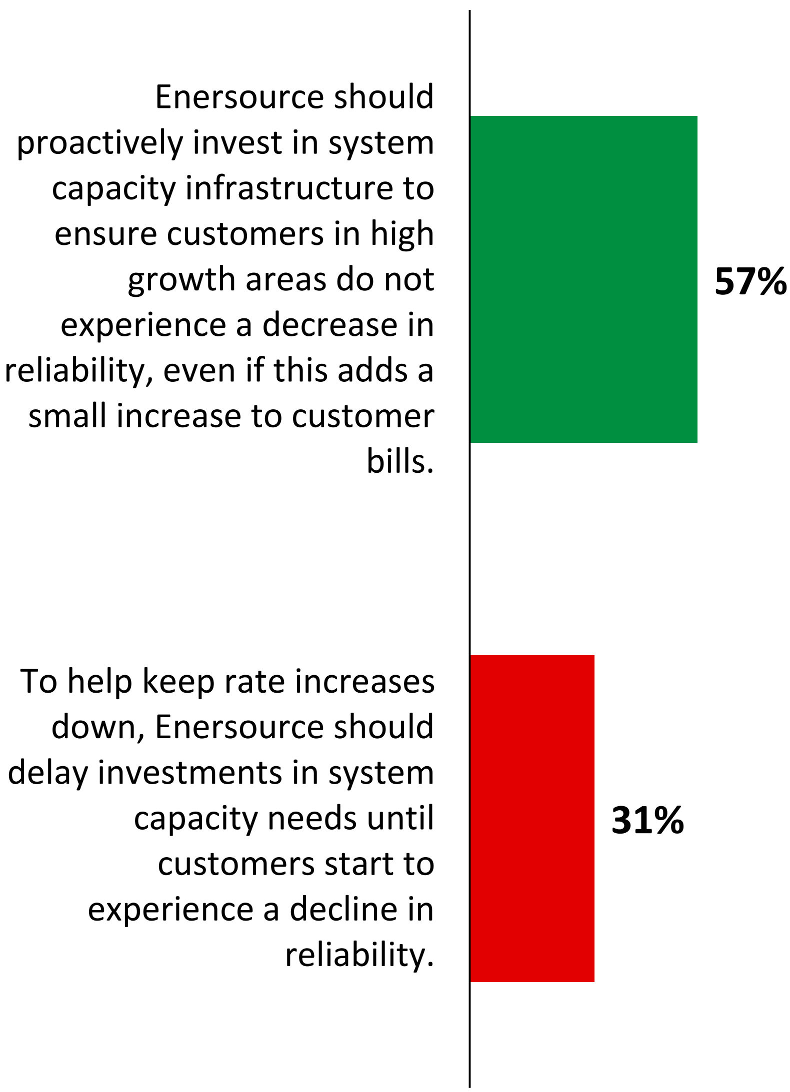
Note: ‘Don’t know’ (6%), ‘Refused’ (1%) not shown.

System Service Investments

Small Business

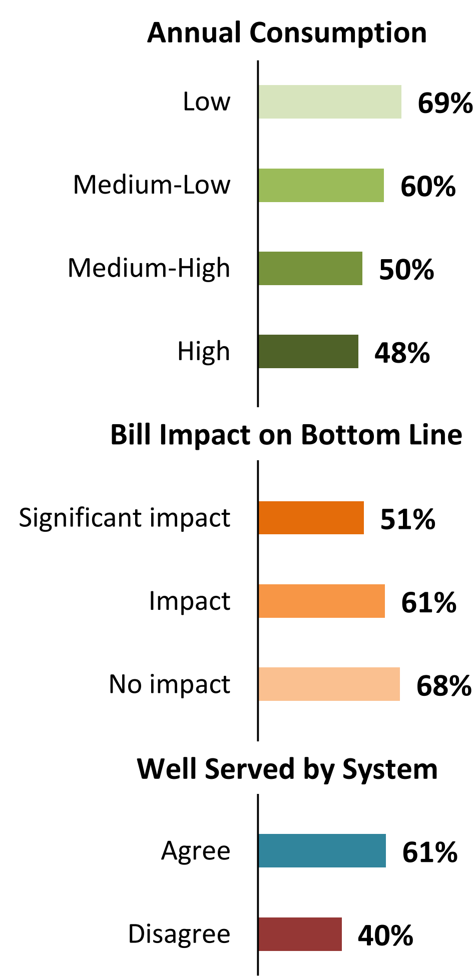
Q With growth in various parts of Mississauga comes greater demand for electricity. This increased demand for electricity puts increased pressure on the existing electrical infrastructure. Eventually, further infrastructure investments will be required to support increased demand for electricity.

With this in mind, which of the following statements best represents your point of view?
[asked all respondents, n=202]



Segmentation

*Those who say "**proactively invest in system capacity**":*



INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (7%), 'Refused' (5%) not shown.

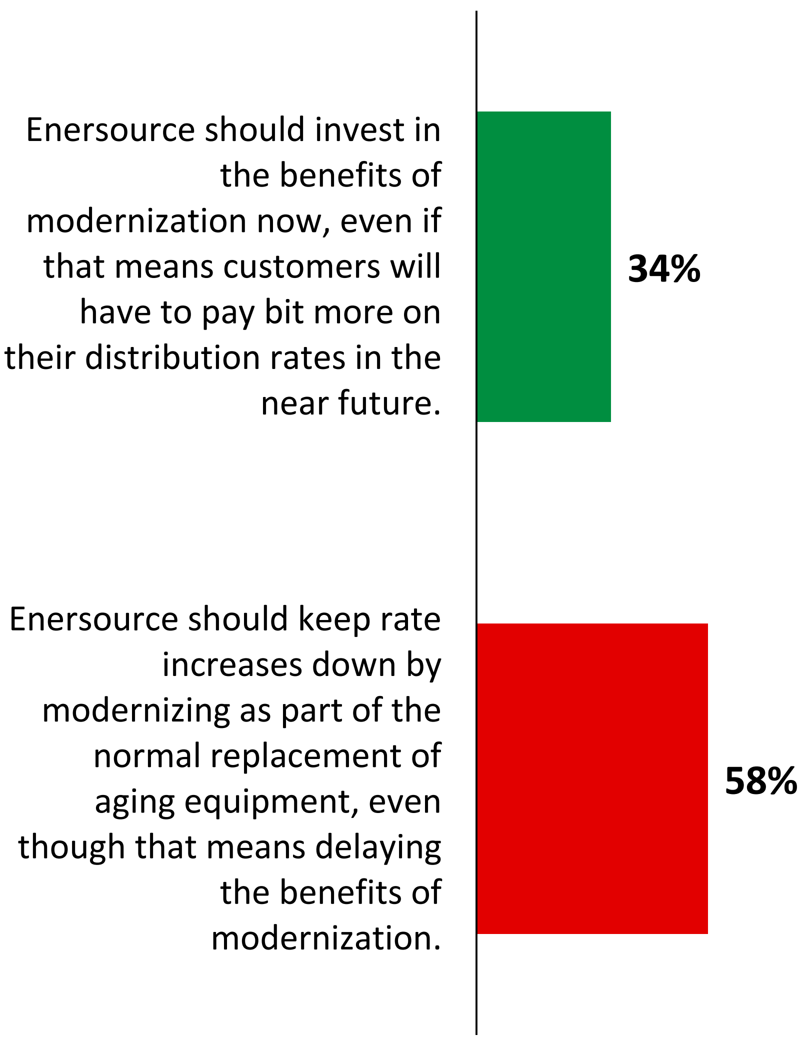
Modernizing the Distribution System

Small Business

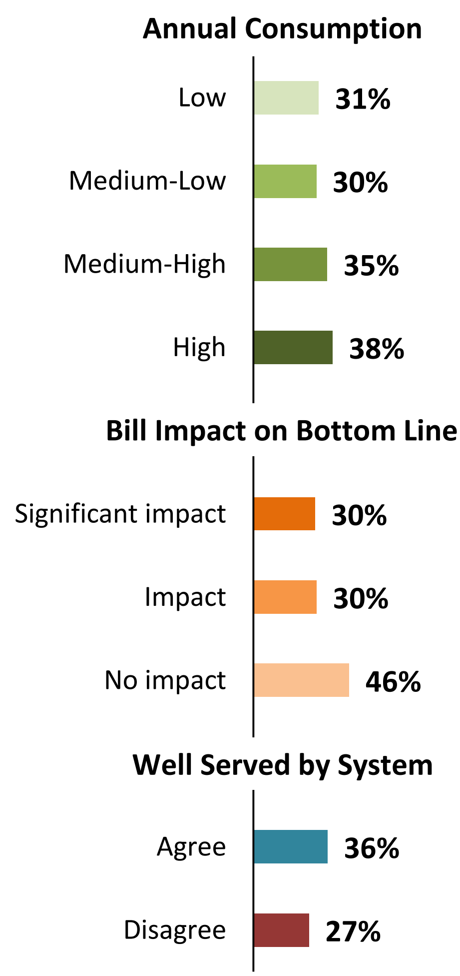
Q There are new technologies that Enersource can implement such as microgrids, electricity storage, and automatic switches that can give customers more choices, improve reliability or reduce the impact on the environment.

These investments would create a better grid, but are not required to maintain the reliability that you experience today.

Which of the following statements best represent your point of view?
[asked all respondents, n=202]



Segmentation ▶▶
*Those who say "**invest in modernization now**":*



INNOVATIVE RESEARCH GROUP

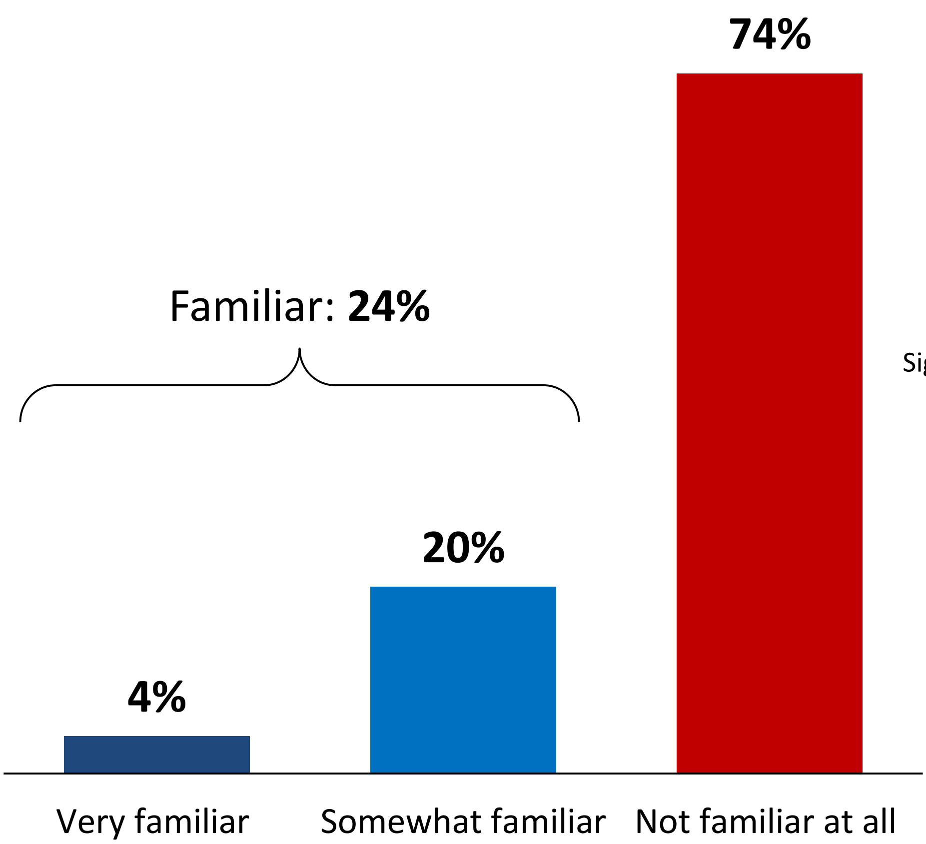
Note: 'Don't know' (6%), 'Refused' (2%) not shown.

Familiarity with OEB "Cost Saving" Requirements

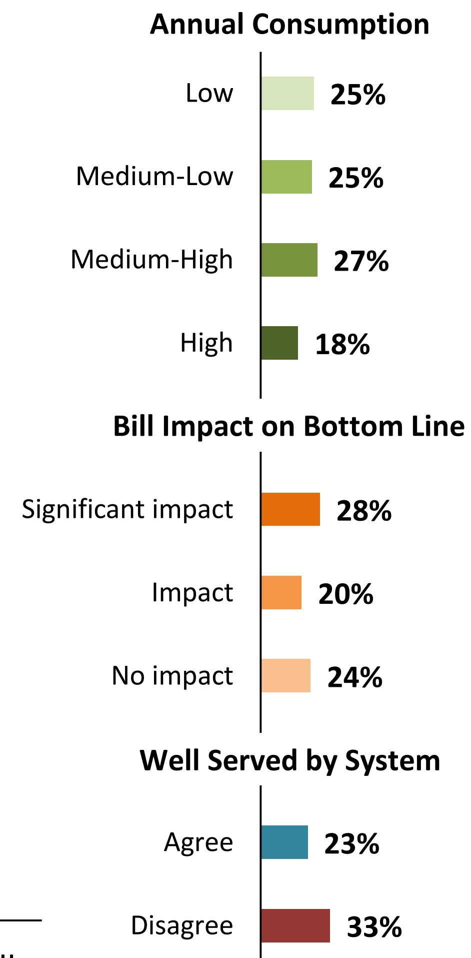
Small Business

Q As we mentioned earlier, the rates you pay to Enersource are set by the OEB through a public process. Enersource's current rates were approved in a 2013 application and will be in place until 2027. Each year Enersource is permitted to increase rates to reflect inflation minus savings targets established by the OEB which requires Enersource to keep cost increases below inflation.

Before this survey, how familiar were you with the OEB requirement for Enersource to find savings every year?
[asked all respondents, n=202]



Segmentation ▶▶
*Those who say "**Familiar**":*



INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (2%) not shown.

ICM Rate Impact & Leaky Transformer Preamble

Small Business

"Now let's turn to our final topic – possible new projects. As part of the OEB policies, there is an option for Enersource to apply for additional rate increases for discrete projects that are prudent, needed and not supported by existing rates. Looking ahead to 2019, Enersource has identified two system renewal projects that need more investment than the existing budget allows. System renewal projects are a mix of replacing aging infrastructure and emergency repairs."

Leaky Transformers

"One of these projects deals with leaky transformers. Enersource has 25,000 transformers which are used to reduce the voltage of electricity as it moves from major transmission lines to the lines going into homes and businesses. Earlier this decade, Enersource identified a backlog of almost 4,000 transformers that show signs of leaking. By the end of this year, over 3,000 of these transformers will have been replaced. However, that will still leave over 600 needing replacement."

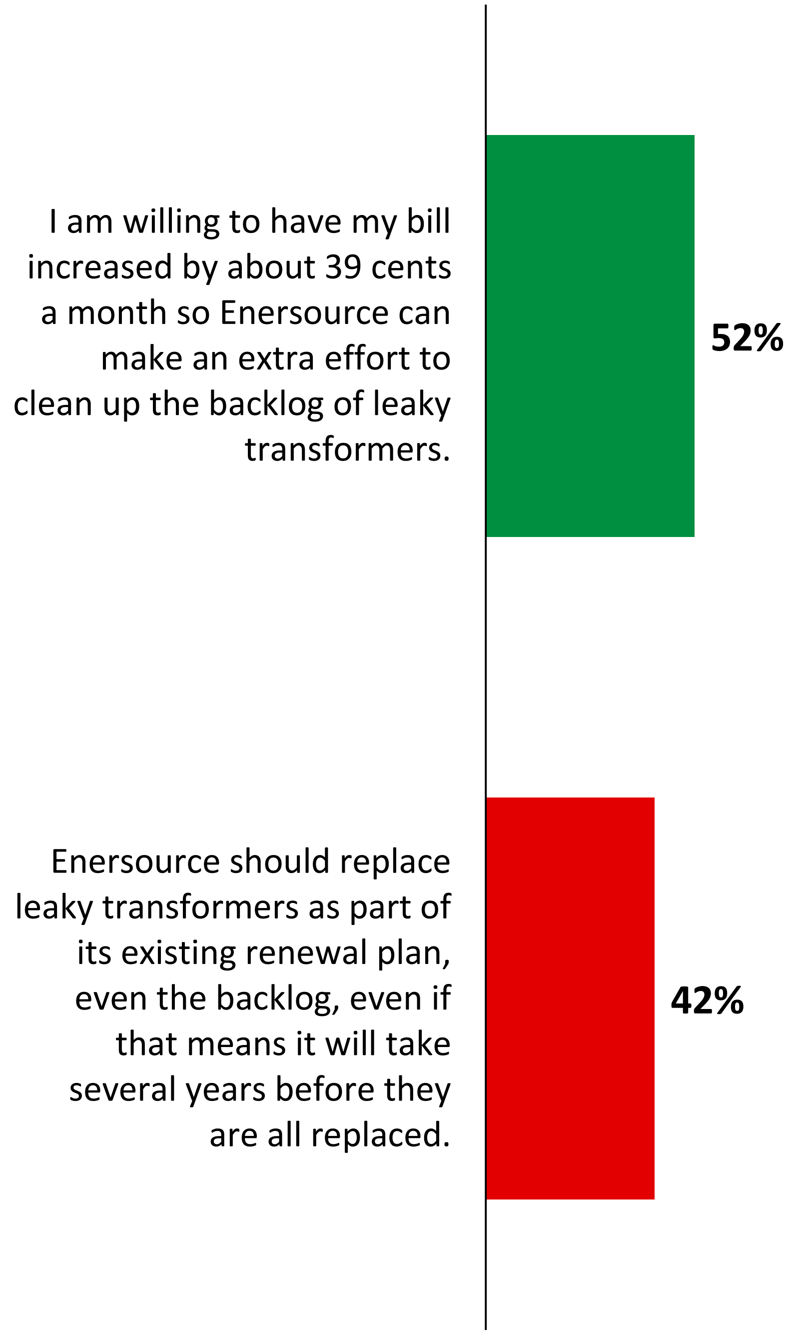
INNOVATIVE RESEARCH GROUP

Leaky Transformers

Small Business

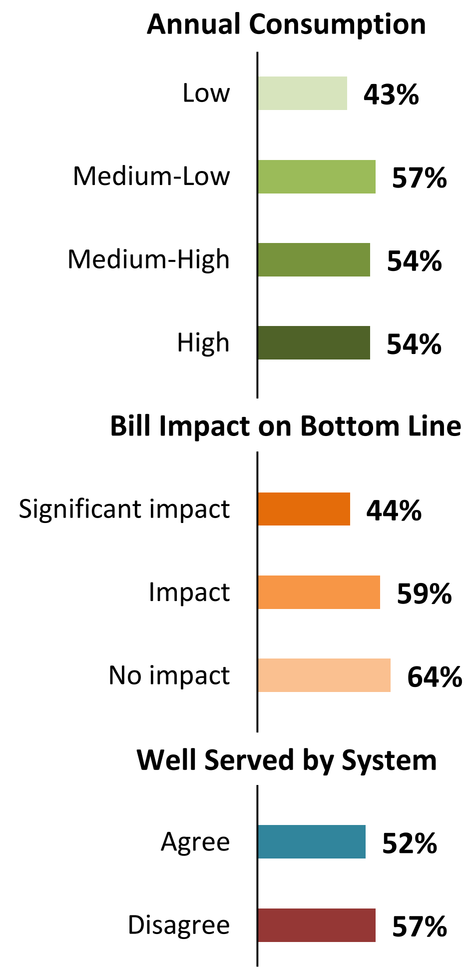
Q Which of the following is closest to your point of view regarding Ensource's proposed transformer replacement program?

[asked all respondents, n=202]



Segmentation

*Those who say "**Clean up backlog of leaky transformers**":*



Note: 'Don't know' (6%) not shown.

Rometown Overhead Preamble

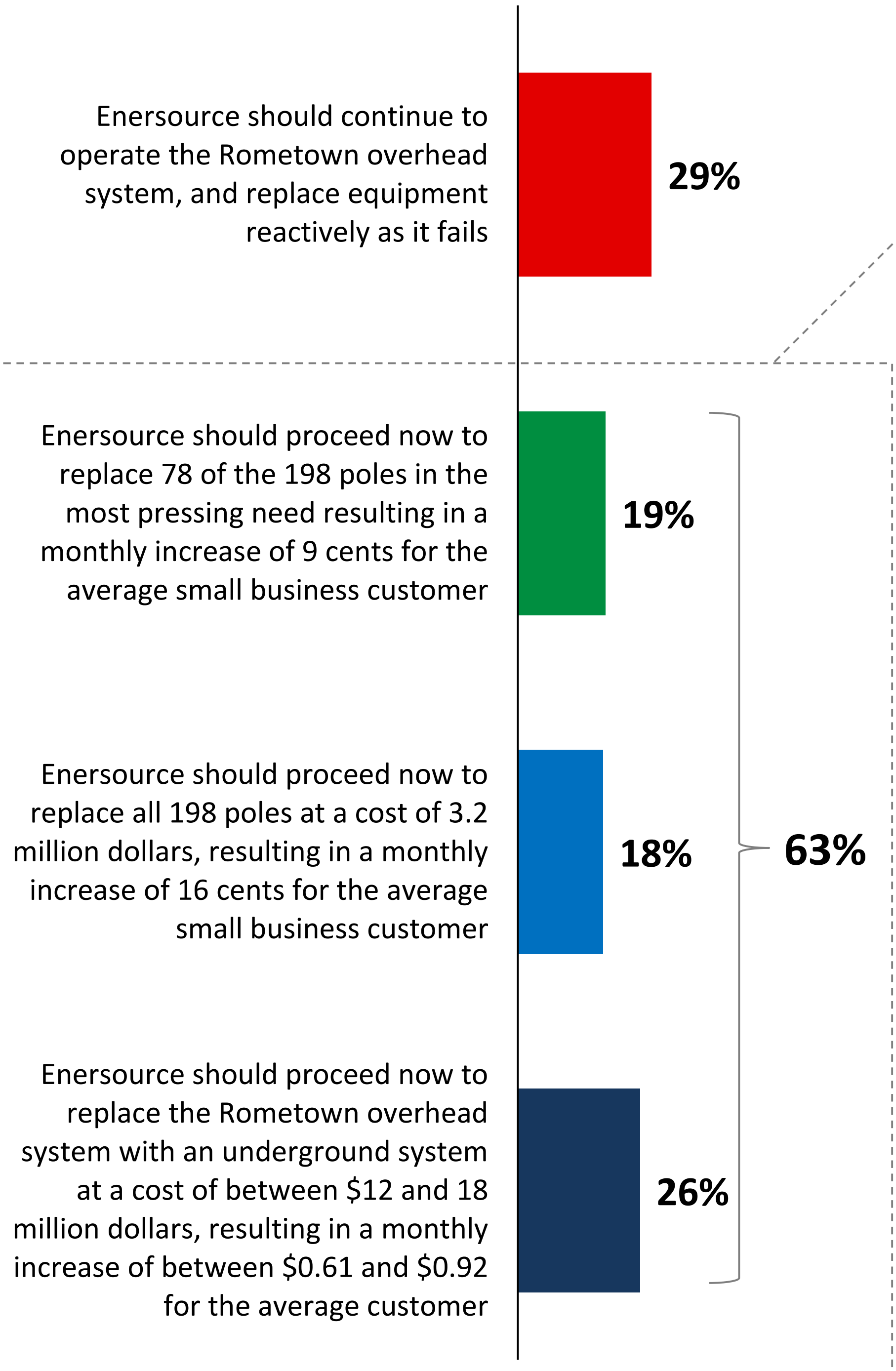
Small Business

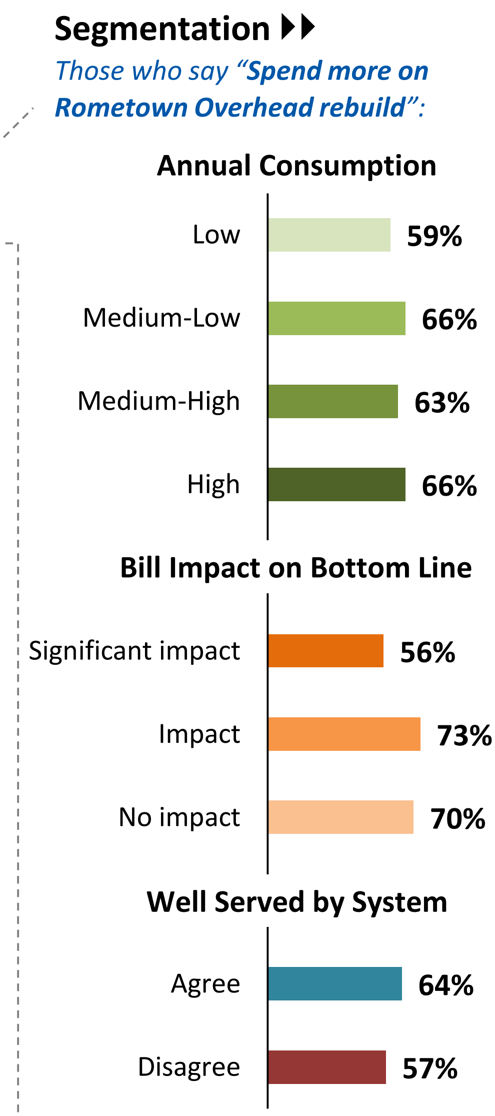
"Another proposed project addresses the Rometown area Overhead system. There are 198 poles in this particular system. 68 out of 198 have been flagged as poor while another 56 are seen to be in fair condition. A total of 78 have been flagged for urgent replacement. This network of poles uses older technologies that will be replaced when the system is eventually rebuilt, but any repairs done today will have to use the older technology. It is more efficient to replace all the poles at once than to replace them one at a time but it costs less in the short run only to replace the poles most in need of repair."

INNOVATIVE RESEARCH GROUP

Rometown Overhead

Q Which of the following is closest to your point of view regarding Ensource's proposed Rometown Overhead system rebuild program?
[asked all respondents, n=202]





INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (8%) not shown.

Opinion of Proposed ICM Rate Impact

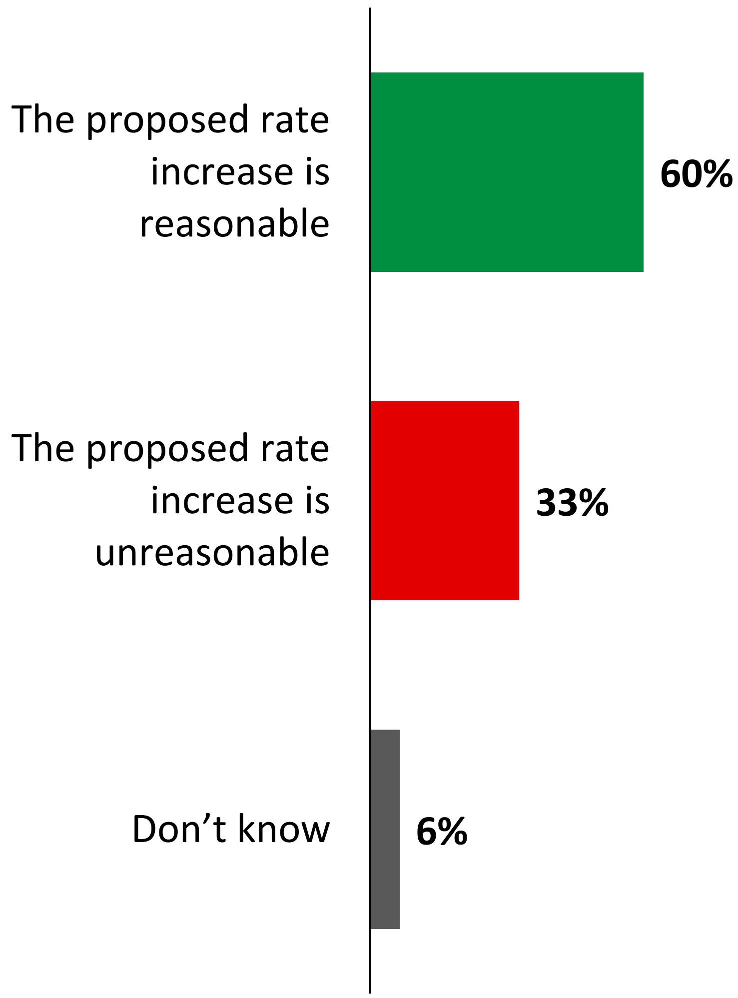
Small Business

Q As I mentioned earlier, each year Enersource is permitted to increase rates to reflect inflation minus a stretch factor which requires Enersource to find savings to keep cost increases below inflation. In order to reduce the backlog of leaking transformers and to replace the most high risk poles in the Rometown overhead system, Enersource would need to add a 48 cent charge to the typical small business customers monthly electricity bill, from 2019 to 2026.

That would result in an annual increase of $5.76 each year over the course of the next eight years – *totalling $46.08 over that period.*

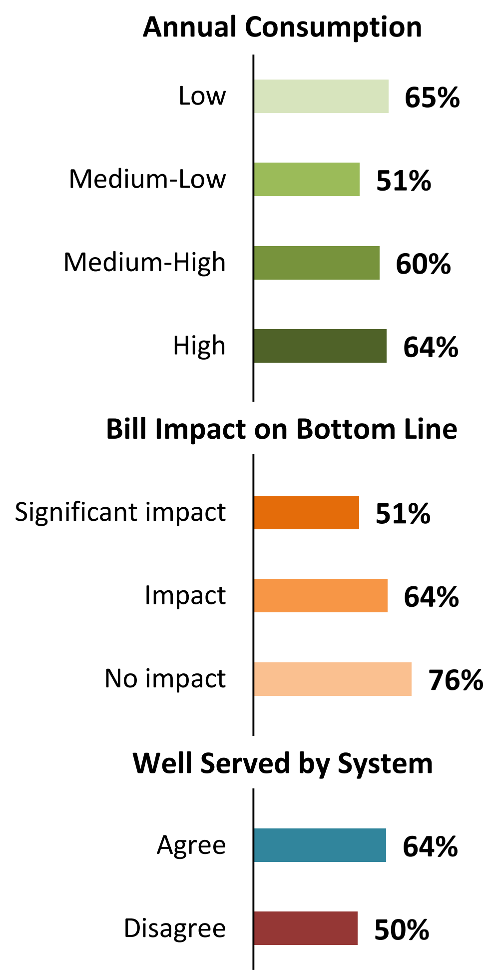
What is your opinion on this proposed rate increase in 2019?

[asked all respondents, n=202]



Segmentation

*Those who say "**Rate increase is reasonable**":*



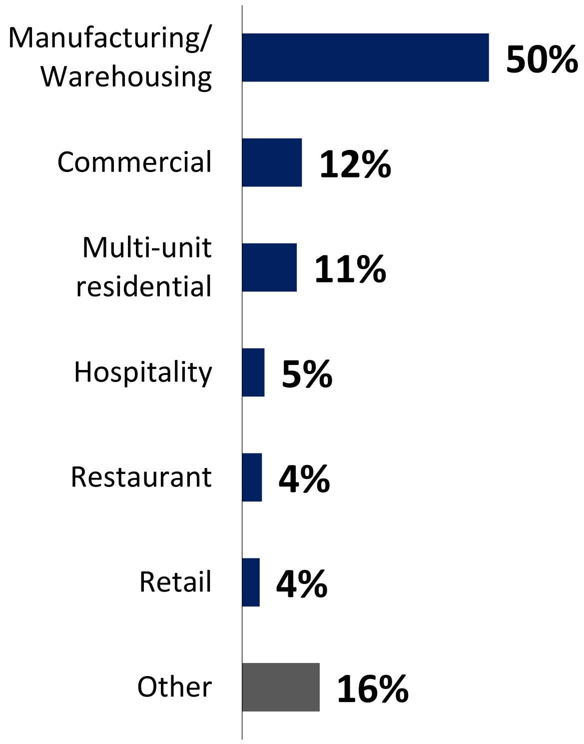
Note: 'Refused' (1%) not shown.

Mid-Sized Business Rate Class

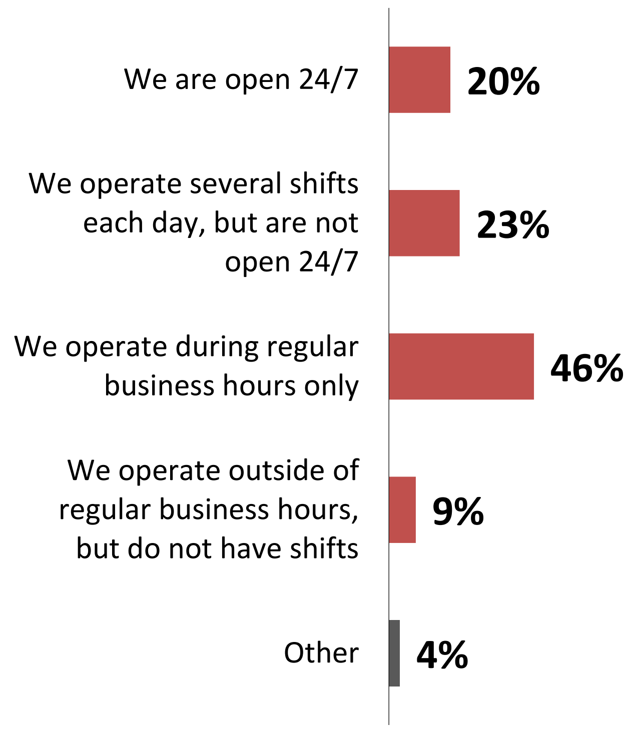
Segmentation & Firmographics

Mid-Sized Business

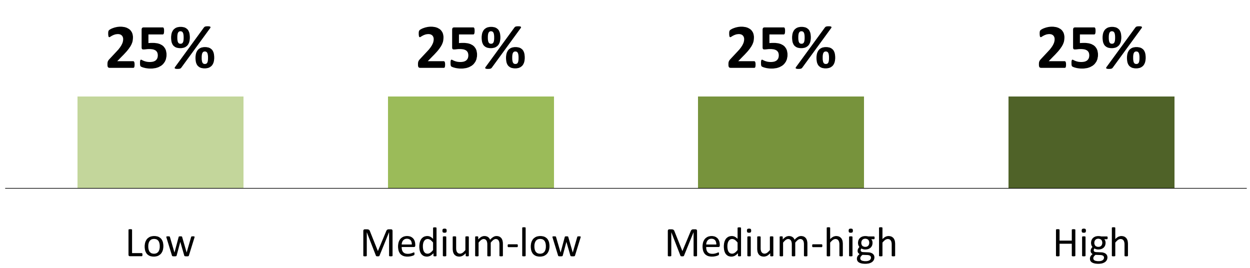
Sector



Hours of Operation



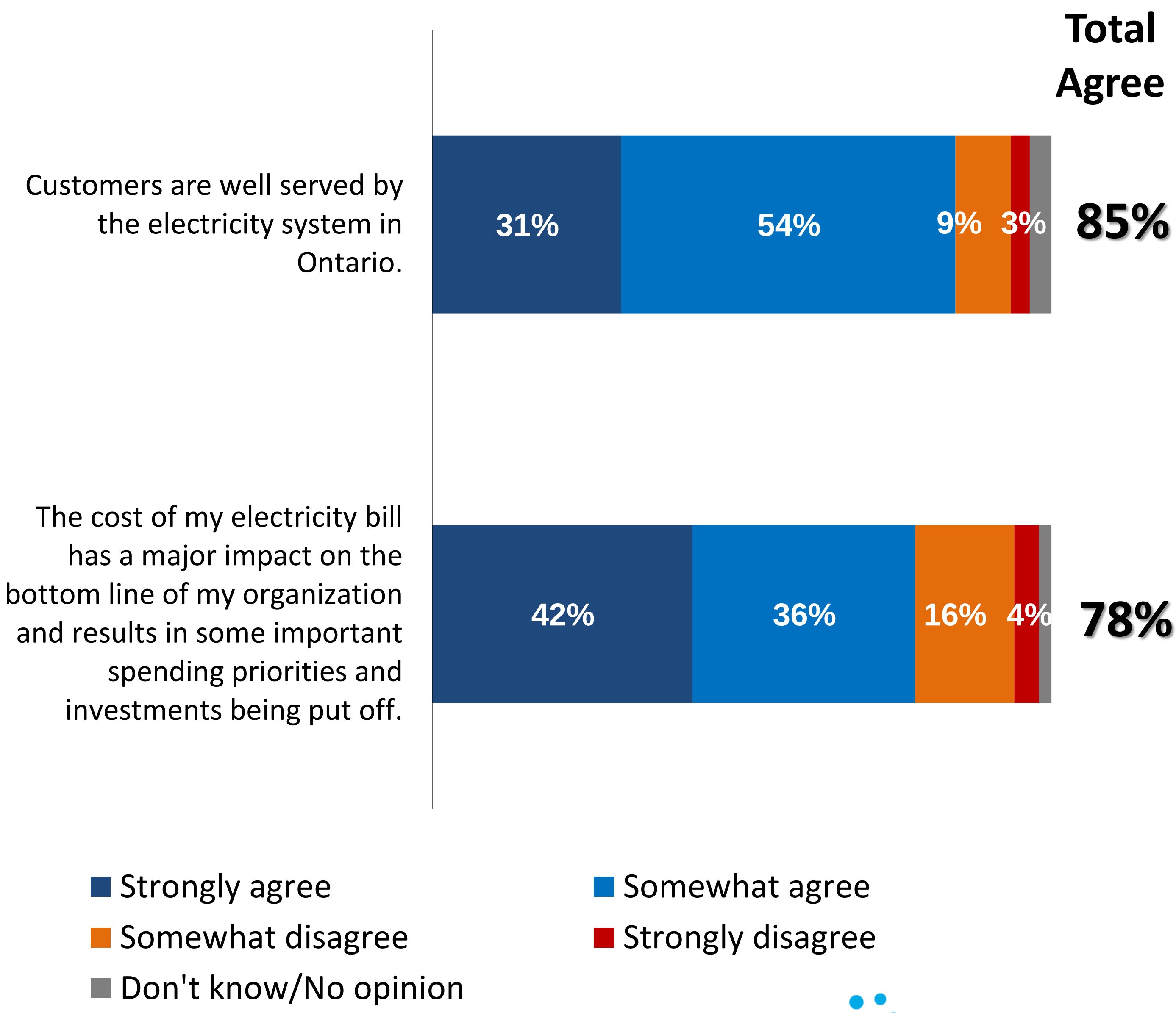
Annual Consumption



Segmentation & Firmographics

Mid-Sized Business

Q For each statement please tell me if you would strongly agree, somewhat agree, somewhat disagree or strongly disagree. If you don't know enough to say or don't have an opinion just let me know.
[asked all respondents, n=200]



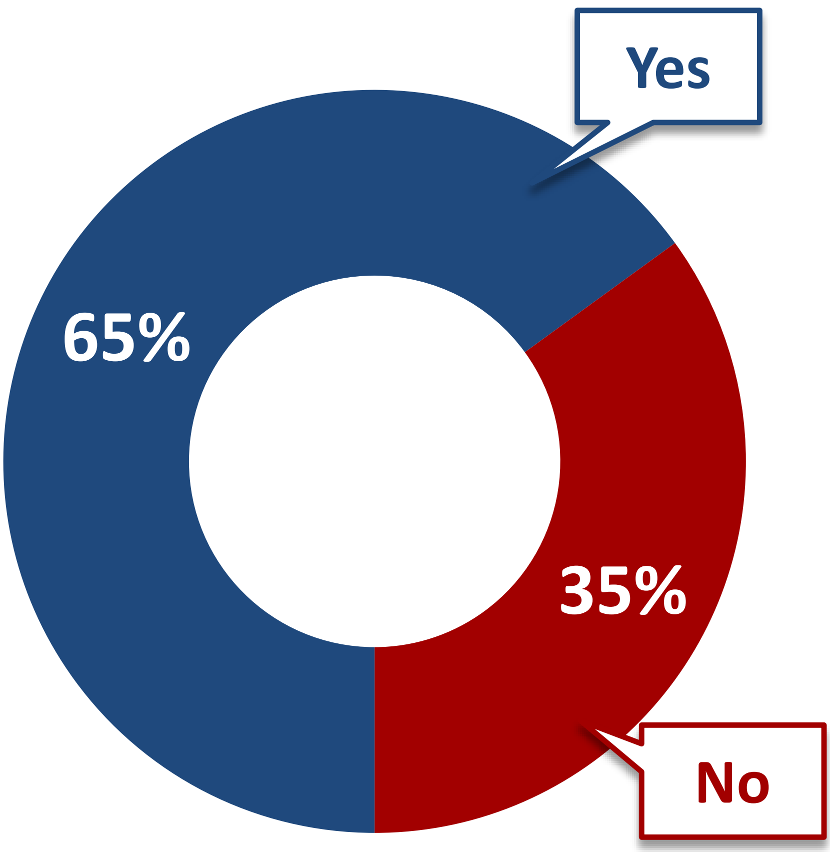
INNOVATIVE RESEARCH GROUP

Awareness of Merger

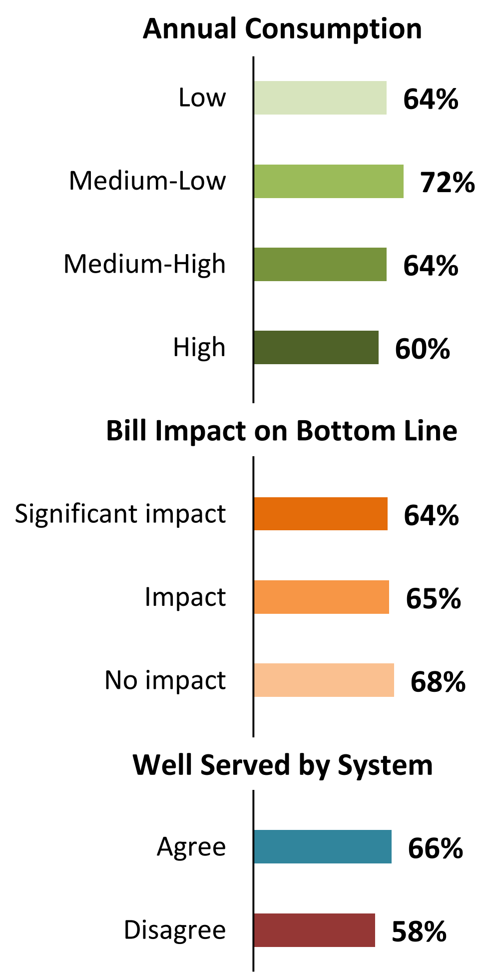
Mid-Sized Business

Q You may have recently heard that Enersource has merged with neighbouring electricity distributors to form a new company called Alectra Utilities.

Had you heard of the Alectra Utilities merger before this survey?
[asked all respondents, n=200]



Segmentation
*Those who say "**Heard of merger**":*



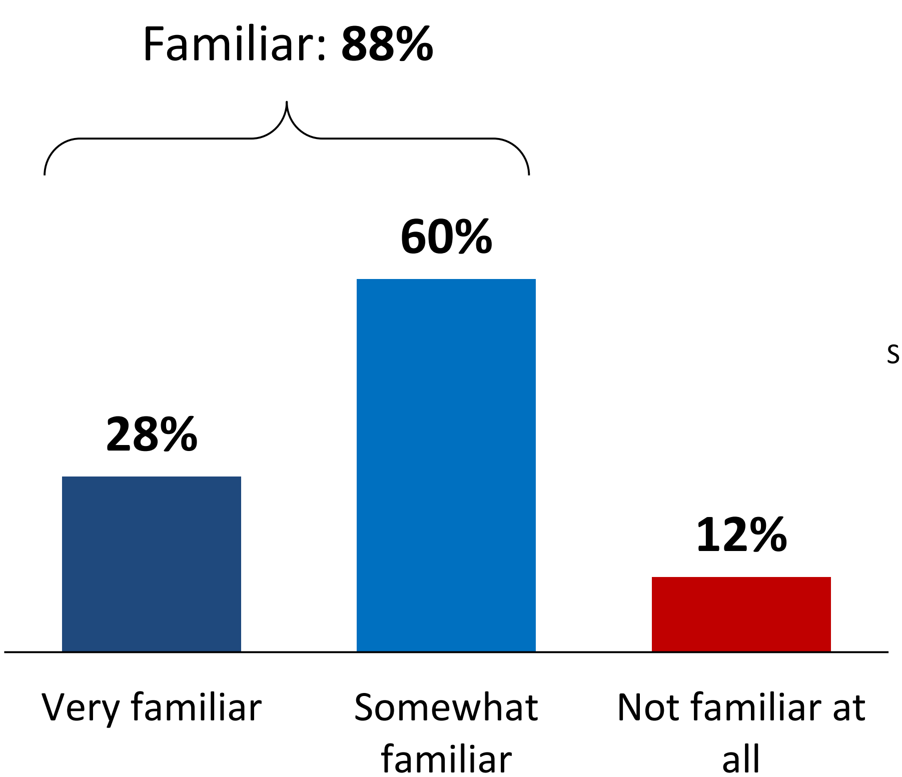
INNOVATIVE RESEARCH GROUP

Familiarity with Enersource

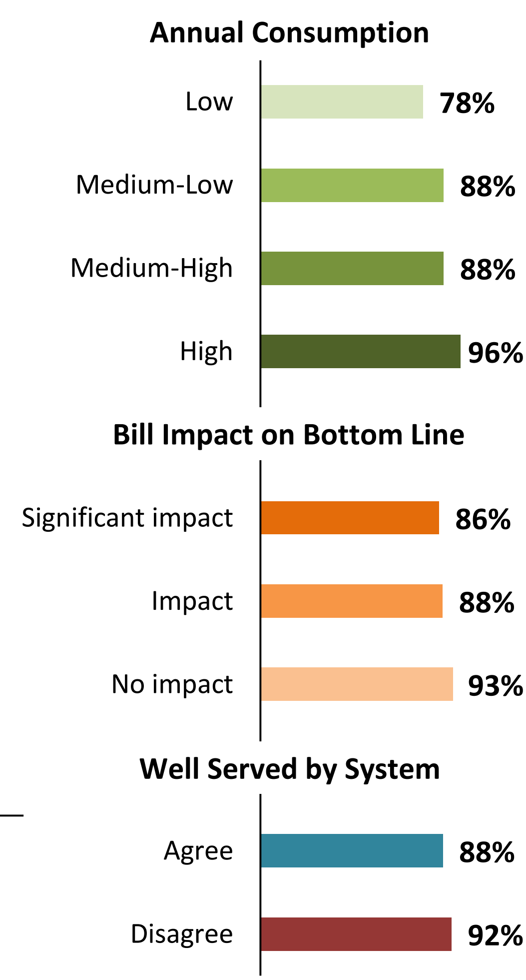
Mid-Sized Business

Q First, let's talk about your experience. As you may know, Enersource operates and maintains the local electricity distribution system in Mississauga. This is the system that takes the electricity from provincial transmission lines and brings it to your home through a network of wires, poles and other equipment that is owned and operated by Enersource.

How familiar are you with Enersource?
[asked all respondents, n=200]



Segmentation
*Those who say "**Familiar**":*



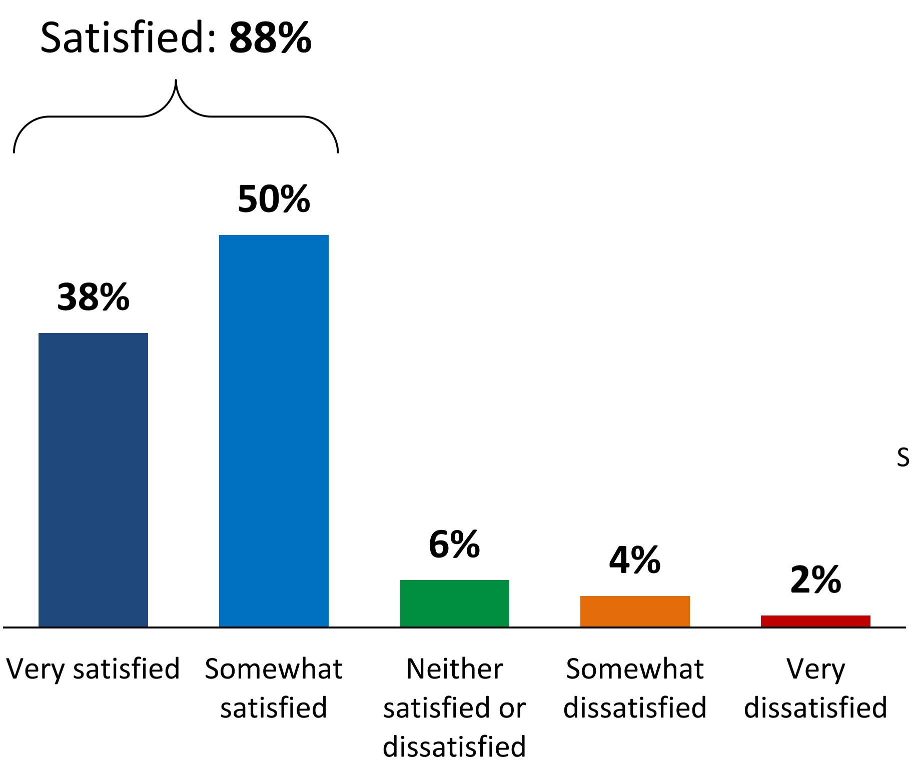
INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (1%) not shown.

Satisfaction with Services

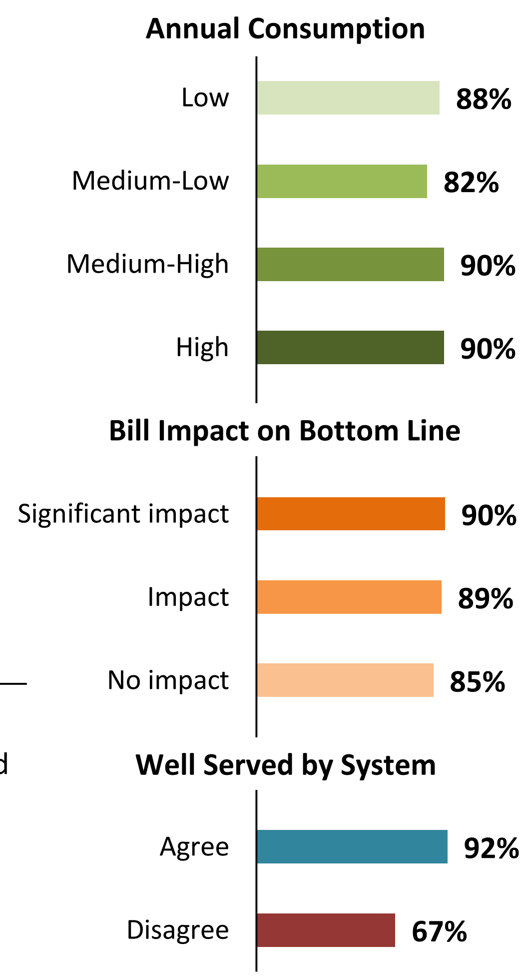
Mid-Sized Business

Q In general, how satisfied or dissatisfied are you with the services your organization receives from Enersource? Would you say you are very satisfied, somewhat satisfied, somewhat dissatisfied, or very dissatisfied?
[asked all respondents, n=200]



Segmentation

*Those who say "**Satisfied**":*



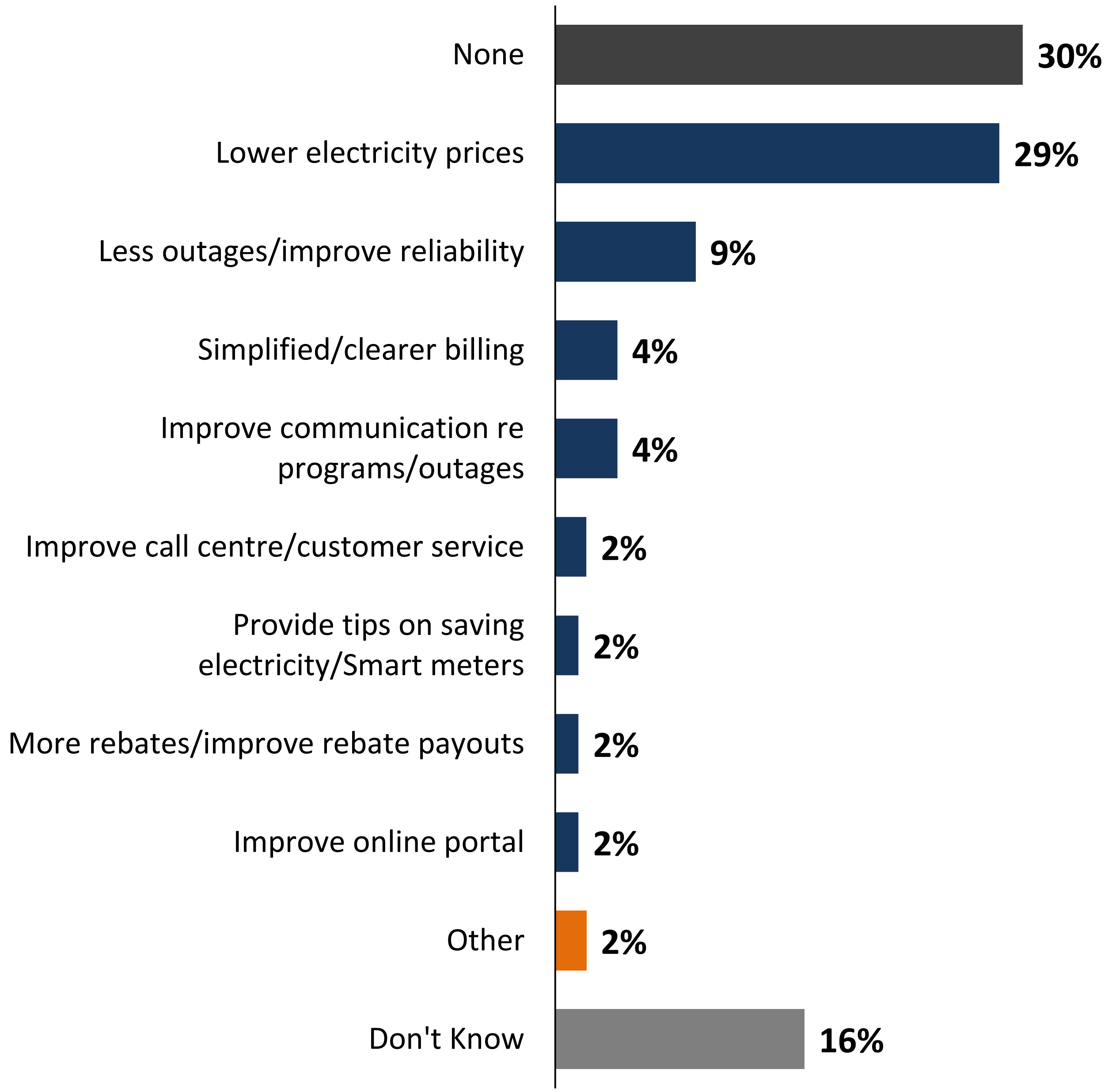
INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (1%) not shown.

Suggestions for Improvements

Mid-Sized Business

Q Is there anything in particular Enersource can do to improve its service to your organization?
[asked all respondents, n=200]



INNOVATIVE RESEARCH GROUP

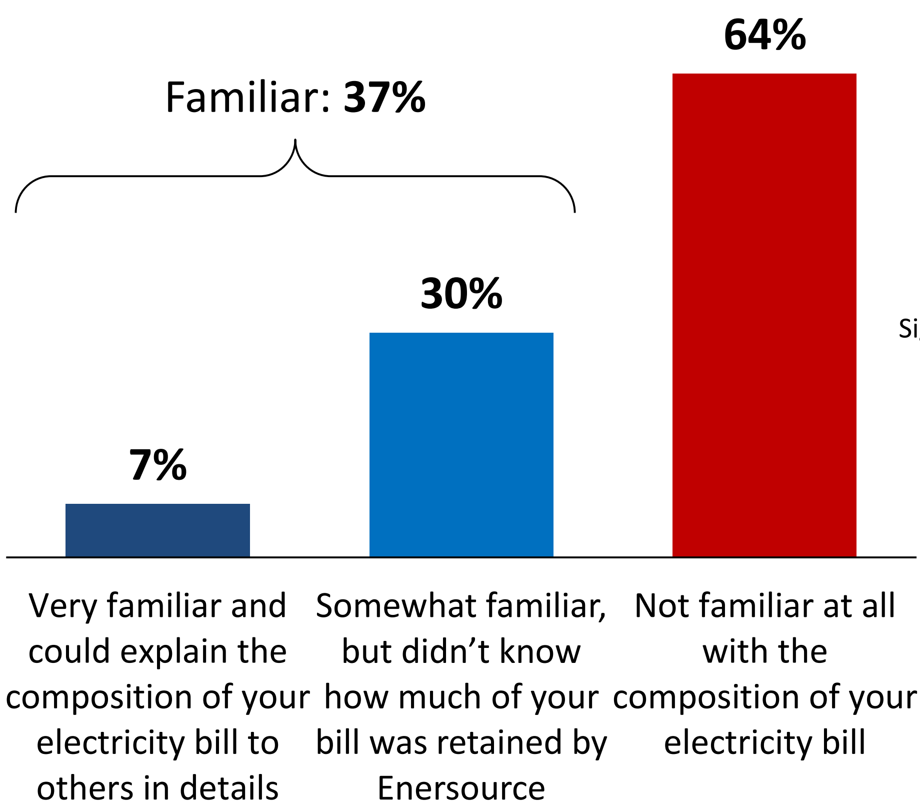
Familiarity with Amount of Electricity Bill Remitted

Mid-Sized Business

Q I'd now like to talk with you about your electricity bill … While Enersource is responsible for collecting payment for the entire electricity bill, they retain about 8% of the typical mid-sized business customer's bill. This is about $1,294.51 on an average $16,862.84 monthly mid-sized business electricity bill. The rest of the bill goes to power generation companies, transmission companies, the provincial government and regulatory agencies.

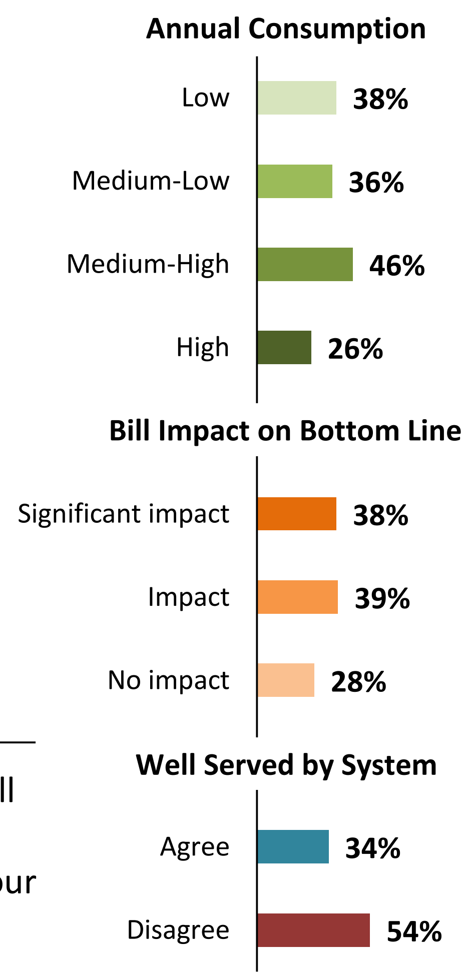
Before this survey, how familiar were you with the percentage of your organization's electricity bill that is retained by Enersource?

[asked all respondents, n=200]



Segmentation ▶▶

*Those who say "**Familiar**":*



INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (1%) not shown.

Customer Priorities

Mid-Sized Business

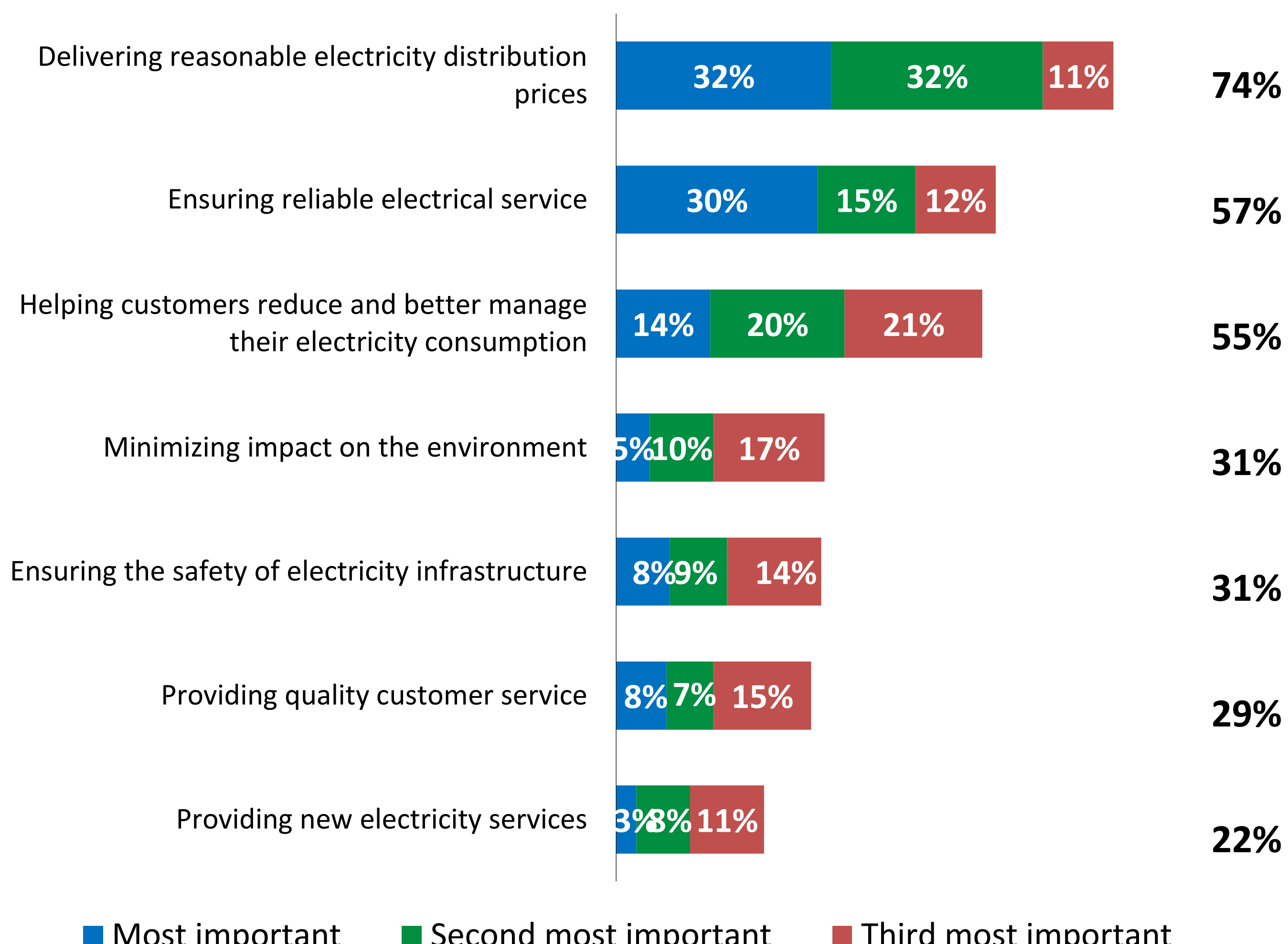
Q Now lets talk about our second topic – outcomes. Enersource regularly holds discussions with its customers to better understand how it should set spending priorities with the money customers pay for service.

In recent conversations with customers, a number of company goals were identified as key priorities for Enersource.

Among the following Enersource priorities, please tell me which one is most important to you.

[asked all respondents, n=200, percentages are calculated based on the full sample]

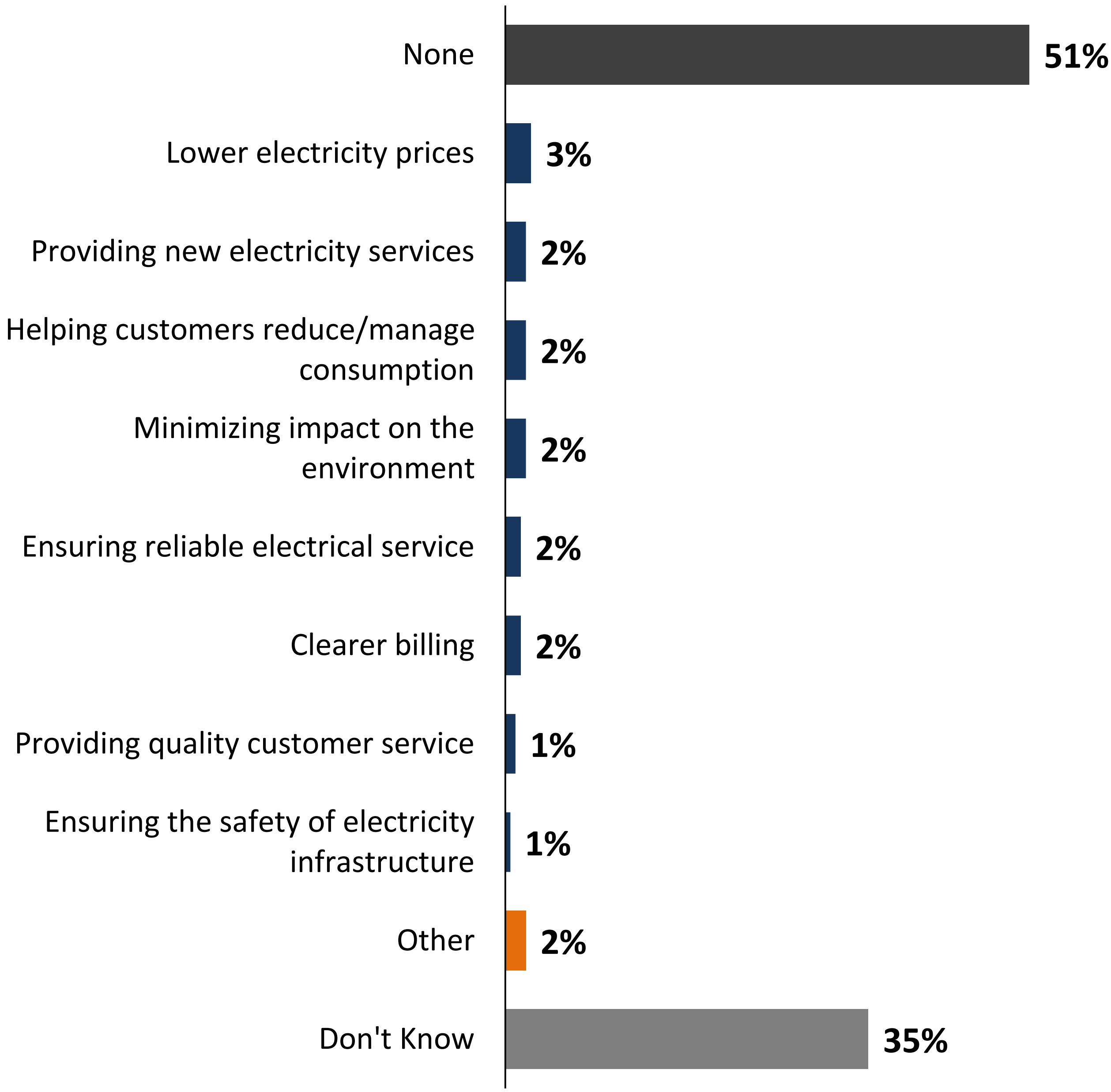
Top 3 Priority



Additional Priorities

Mid-Sized Business

Q Are there any other important priorities that Enersource should be focusing on that weren’t included in the previous list I read to you?
[asked all respondents, n=200]



INNOVATIVE RESEARCH GROUP

System Reliability

Mid-Sized Business

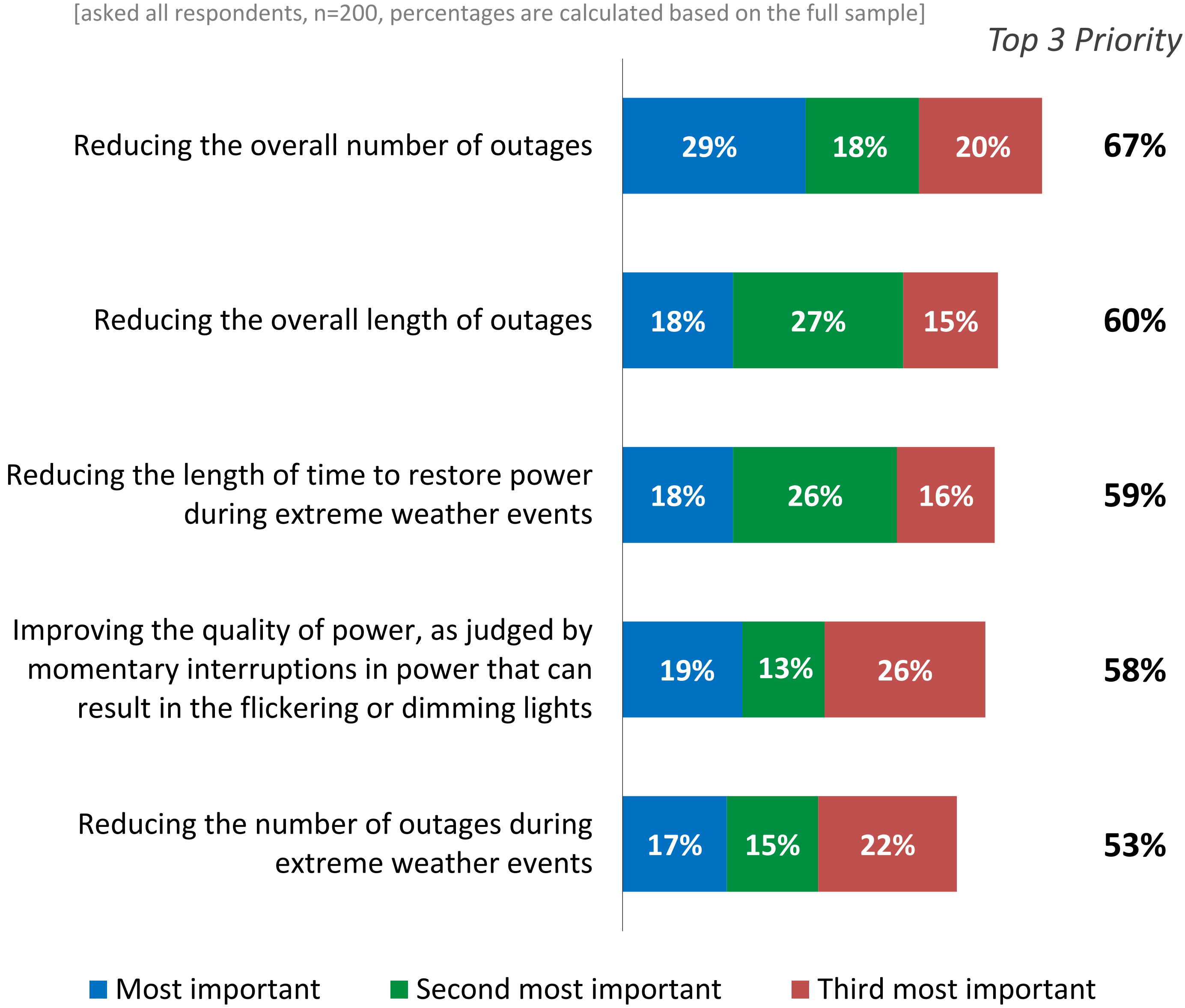
Q

We would like to understand your experience with reliability.

There are different outcomes when customers talk about power reliability.

Among the following reliability outcomes, please tell me which one is most important to you.

[asked all respondents, n=200, percentages are calculated based on the full sample]



INNOVATIVE RESEARCH GROUP

Familiarity with how Electricity Rates are Set

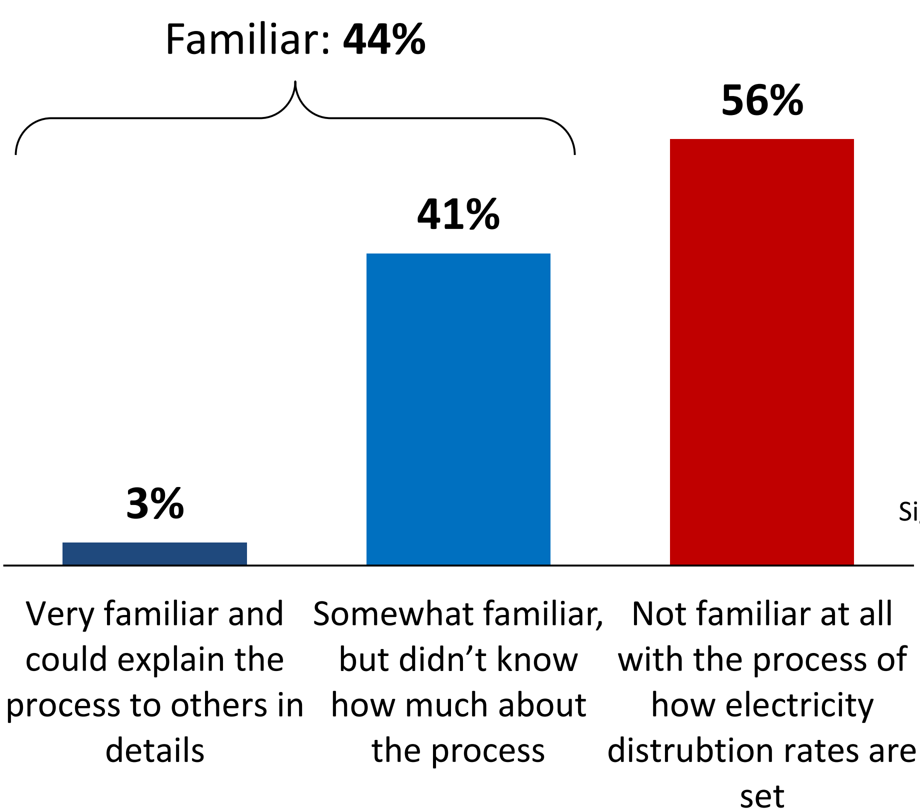
Mid-Sized Business

Q *Now, lets turn to our third topic, investment trade-offs.* The electricity industry in Ontario is regulated by the Ontario Energy Board, otherwise known as the O-E-B. The OEB sets electricity rates in Ontario.

The OEB requires electricity distributors, such as Alectra Utilities, to develop its business plan and distribution system plan, as well as make spending and investment decisions based on customer feedback.

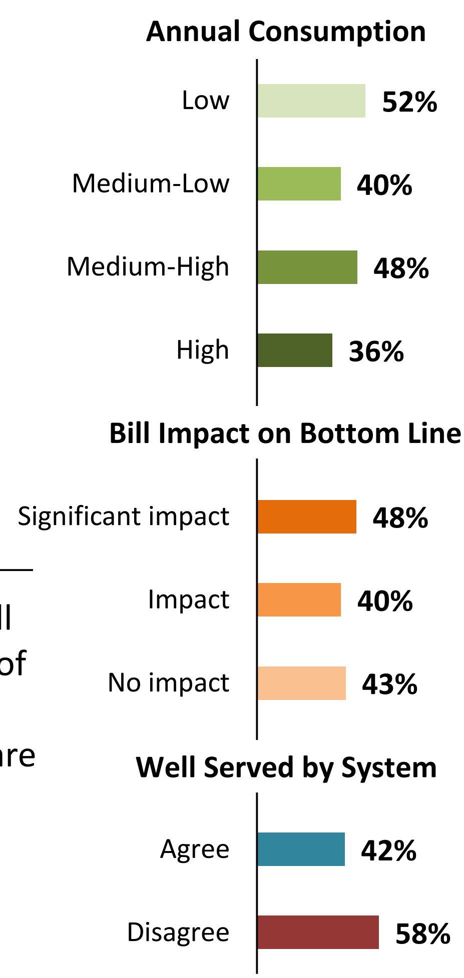
Electricity distributors are funded by the distribution rates paid by their customers. Periodically, distributors are required to file rate applications with the OEB to justify the amount of funding they need to safely and reliably distribute electricity to their customers.

Before this survey, how familiar were you with how electricity distribution rates are set in Ontario? [asked all respondents, n=200]



Segmentation

*Those who say "**Familiar**":*



Investment Trade-Off Preamble

Mid-Sized Business

"Alectra Utilities is now starting to create its first overall investment plan as a merged utility. The OEB divides electricity distributor investments into four categories. One category called system access includes investments that are mandatory under the distributor's licence to operate. These include reasonable costs to connect new customers and moving existing infrastructure to accommodate civic improvements.

The spending in the other three categories involves finding the right balance between the impact on your bill and the service you receive. We would now like ask a few questions about your preferences when it comes to finding the right balance between costs and other outcomes.

I want to start by asking you about system renewal, that is the projects that replace aging electrical infrastructure."

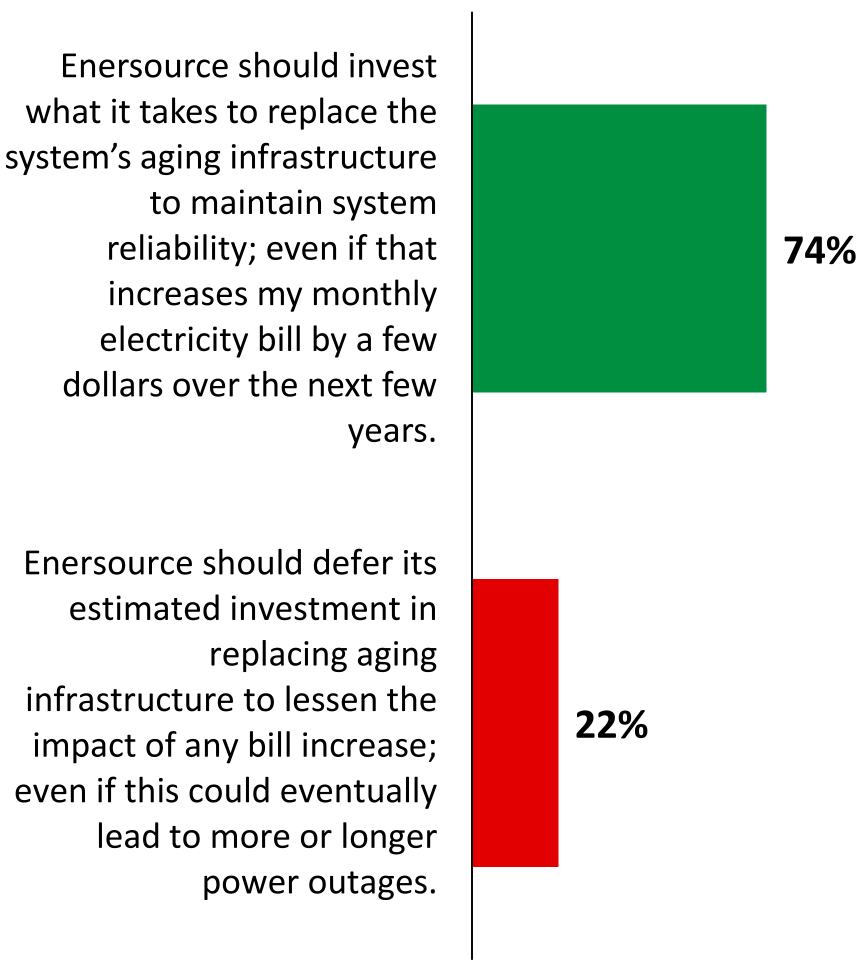
INNOVATIVE RESEARCH GROUP

Investments in Aging Infrastructure

Mid-Sized Business

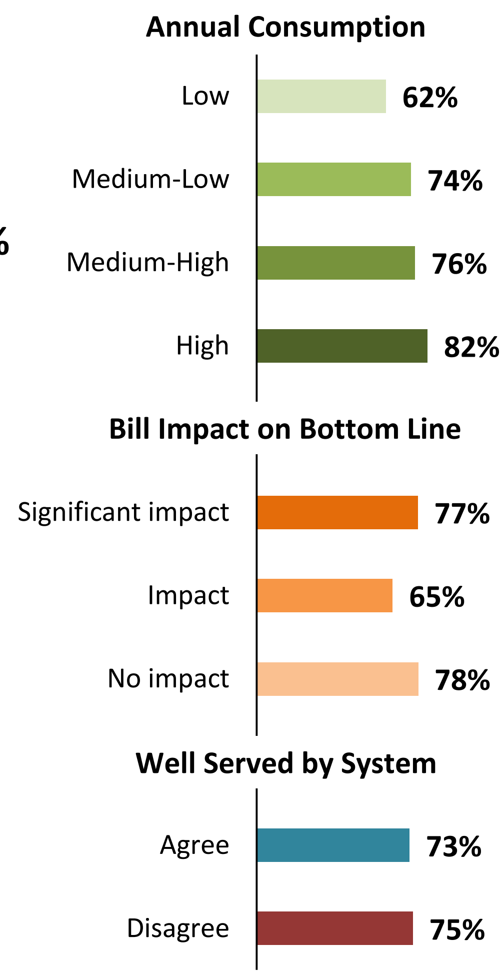
Q While Enersource works hard to prolong the life of the assets that make up Mississauga's distribution system, eventually these assets reach the end of their useful life and require replacement. Currently the average customer experiences 1.08 outages a year for an average of **35 minutes and 40 seconds**. When adjusted to remove outages due to loss of supply from the transmission system and major storms, 56% of unscheduled outages are as a result of equipment failure in the Enersource rate zone. However, it is not possible to predict exactly when a specific piece of aging equipment will fail. Enersource must decide the pace at which it replaces this aging equipment.

Which of the following statements best represents your point of view?
[asked all respondents, n=200]



Segmentation ▶▶

*Those who say "**invest what it takes to maintain system reliability**":*



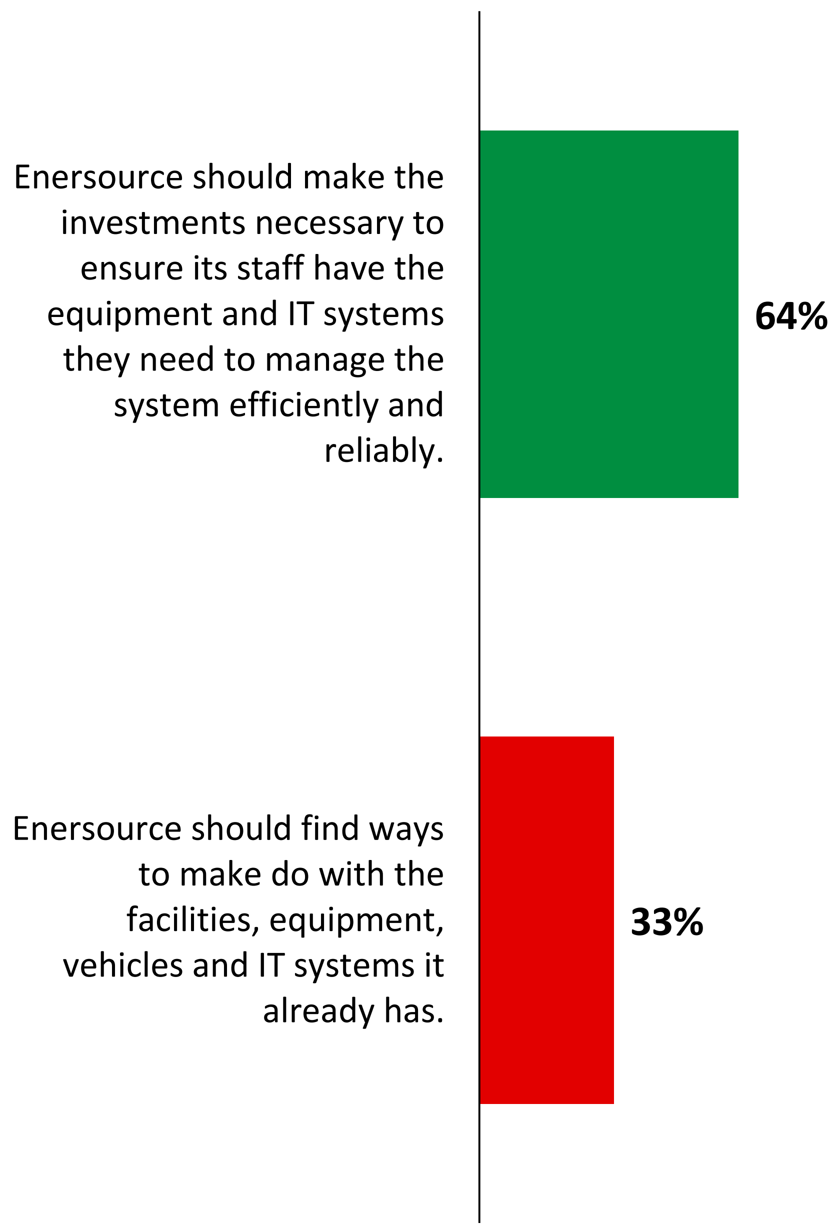
Note: 'Don't know' (4%), 'Refused' (2%) not shown.

General Plant Investments

Mid-Sized Business

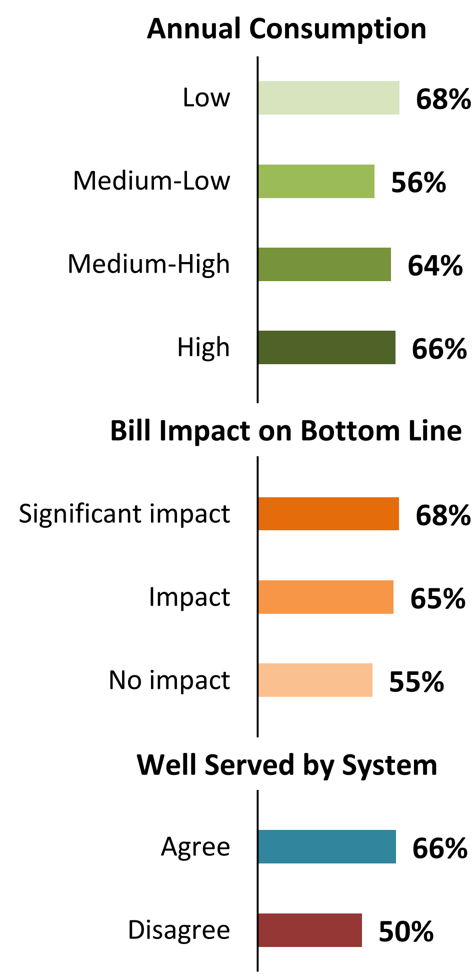
Q As a company, Enersource needs facilities to house staff and equipment, vehicles and tools to service electrical infrastructure, and IT systems to manage the distribution system and customer information..

Which of the following statements best represents your point of view?
[asked all respondents, n=200]



Segmentation ▶▶

*Those who say "**make necessary investments**":*



INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (3%), 'Refused' (1%) not shown.

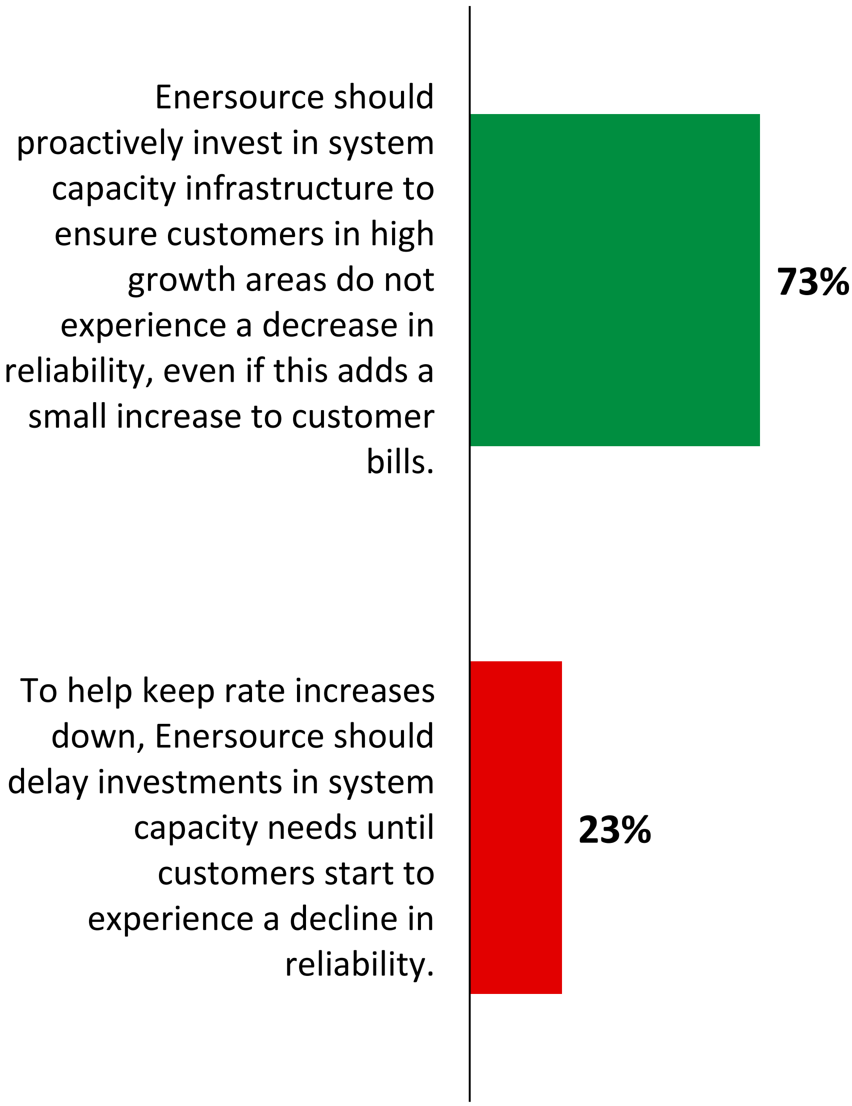
System Service Investments

Mid-Sized Business

Q With growth in various parts of Mississauga comes greater demand for electricity. This increased demand for electricity puts increased pressure on the existing electrical infrastructure. Eventually, further infrastructure investments will be required to support increased demand for electricity.

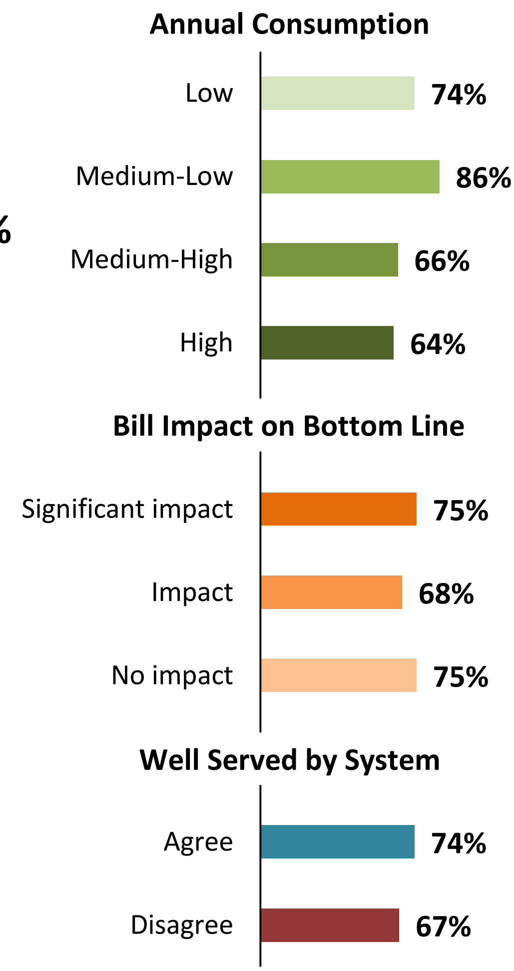
With this in mind, which of the following statements best represents your point of view?

[asked all respondents, n=200]



Segmentation

*Those who say "**proactively invest in system capacity**":*



INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (2%), 'Refused' (3%) not shown.

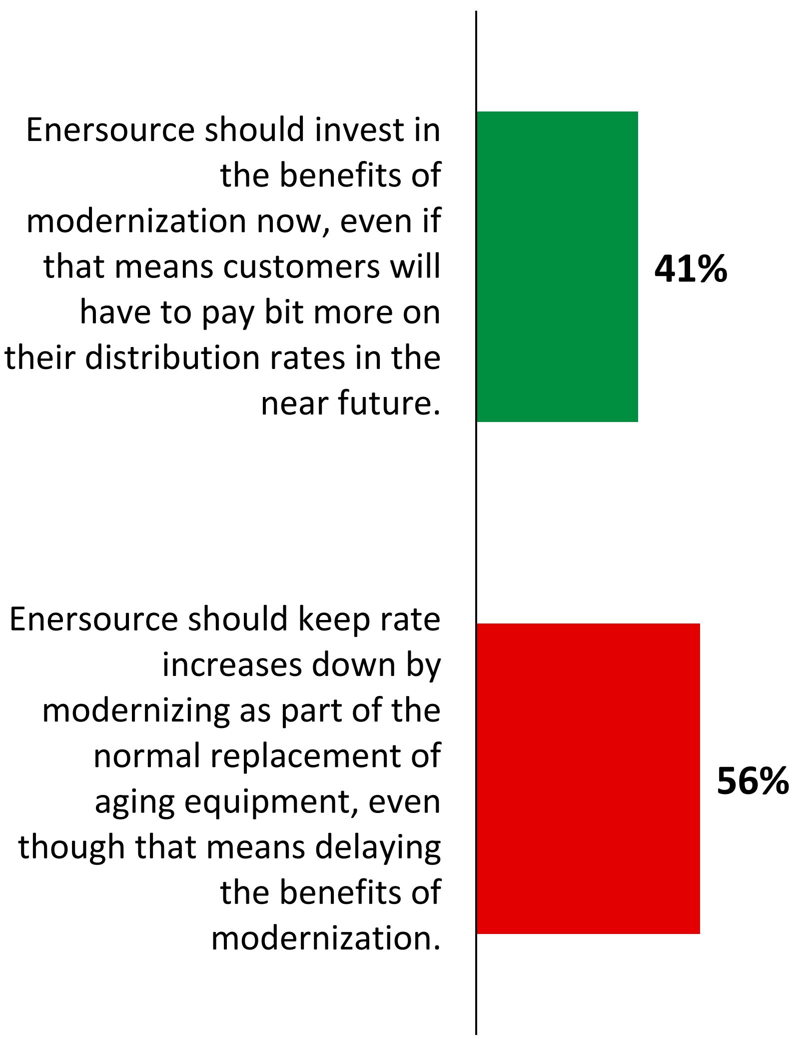
Modernizing the Distribution System

Mid-Sized Business

Q There are new technologies that Enersource can implement such as microgrids, electricity storage, and automatic switches that can give customers more choices, improve reliability or reduce the impact on the environment.

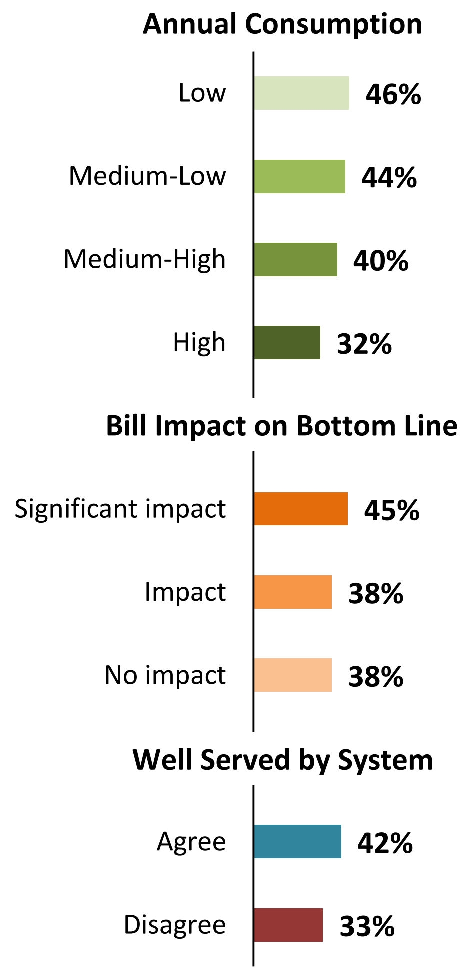
These investments would create a better grid, but are not required to maintain the reliability that you experience today.

Which of the following statements best represent your point of view?
[asked all respondents, n=200]



Segmentation

*Those who say "**invest in modernization now**":*



INNOVATIVE RESEARCH GROUP

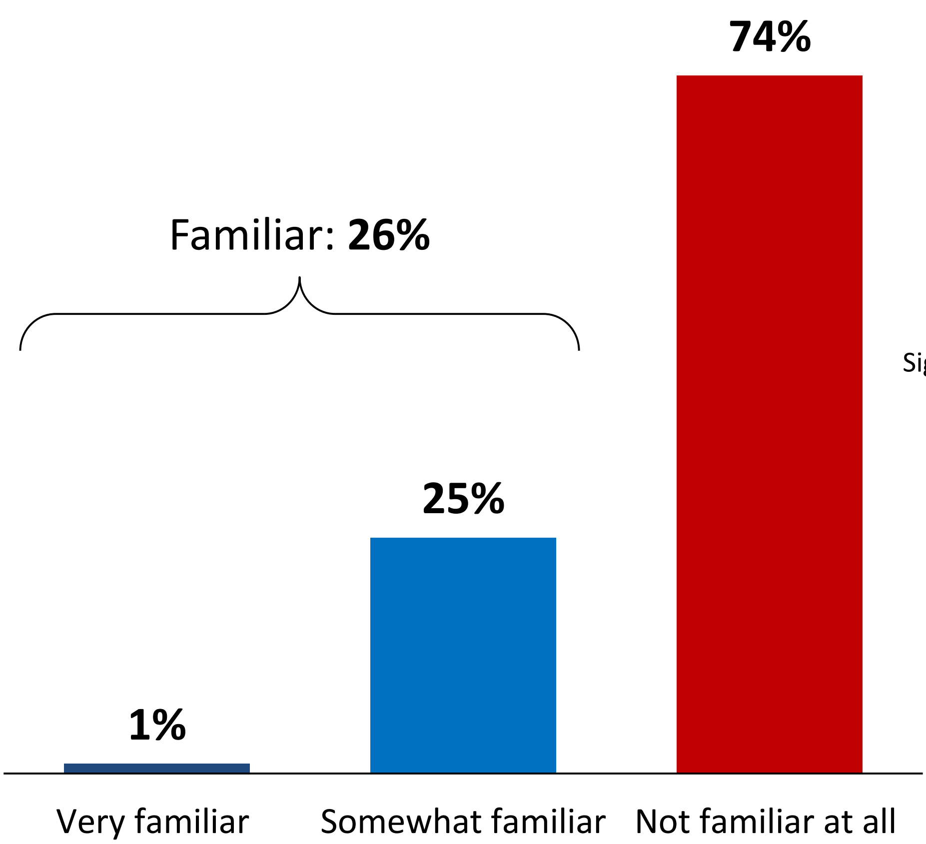
Note: 'Don't know' (3%), 'Refused' (1%) not shown.

Familiarity with OEB "Cost Saving" Requirements

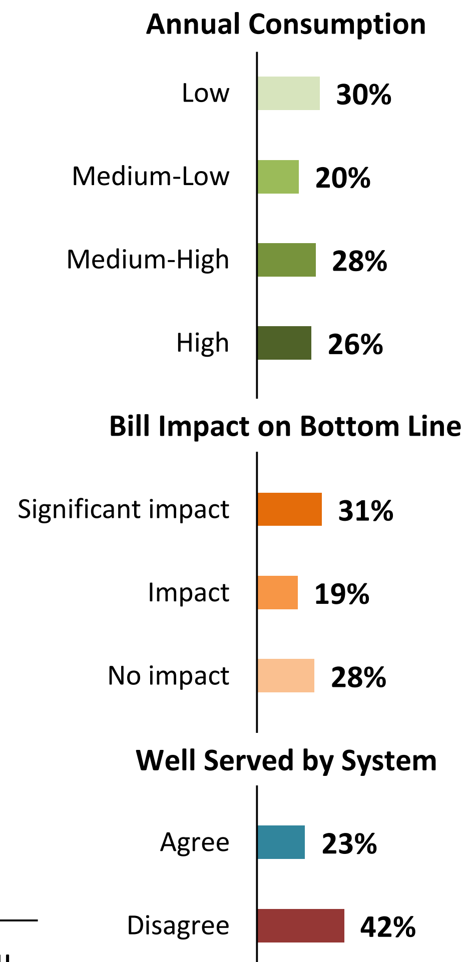
Mid-Sized Business

Q As we mentioned earlier, the rates you pay to Enersource are set by the OEB through a public process. Enersource's current rates were approved in a 2013 application and will be in place until 2027. Each year Enersource is permitted to increase rates to reflect inflation minus savings targets established by the OEB which requires Enersource to keep cost increases below inflation.

Before this survey, how familiar were you with the OEB requirement for Enersource to find savings every year?
[asked all respondents, n=200]



Segmentation ▶▶
*Those who say "**Familiar**":*



INNOVATIVE RESEARCH GROUP

ICM Rate Impact & Leaky Transformer Preamble

Mid-Sized Business

"Now let's turn to our final topic – possible new projects. As part of the OEB policies, there is an option for Enersource to apply for additional rate increases for discrete projects that are prudent, needed and not supported by existing rates. Looking ahead to 2019, Enersource has identified two system renewal projects that need more investment than the existing budget allows. System renewal projects are a mix of replacing aging infrastructure and emergency repairs."

Leaky Transformers

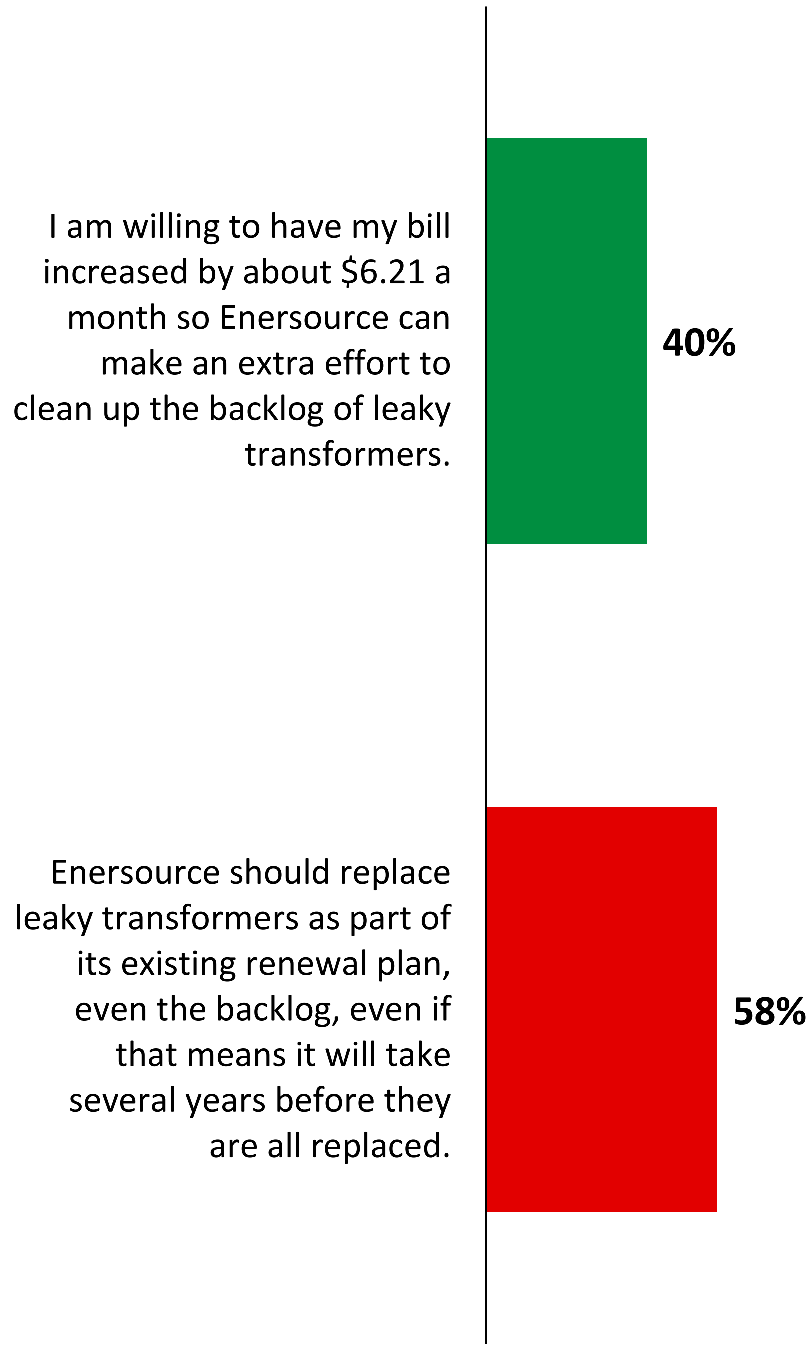
"One of these projects deals with leaky transformers. Enersource has 25,000 transformers which are used to reduce the voltage of electricity as it moves from major transmission lines to the lines going into homes and businesses. Earlier this decade, Enersource identified a backlog of almost 4,000 transformers that show signs of leaking. By the end of this year, over 3,000 of these transformers will have been replaced. However, that will still leave over 600 needing replacement."

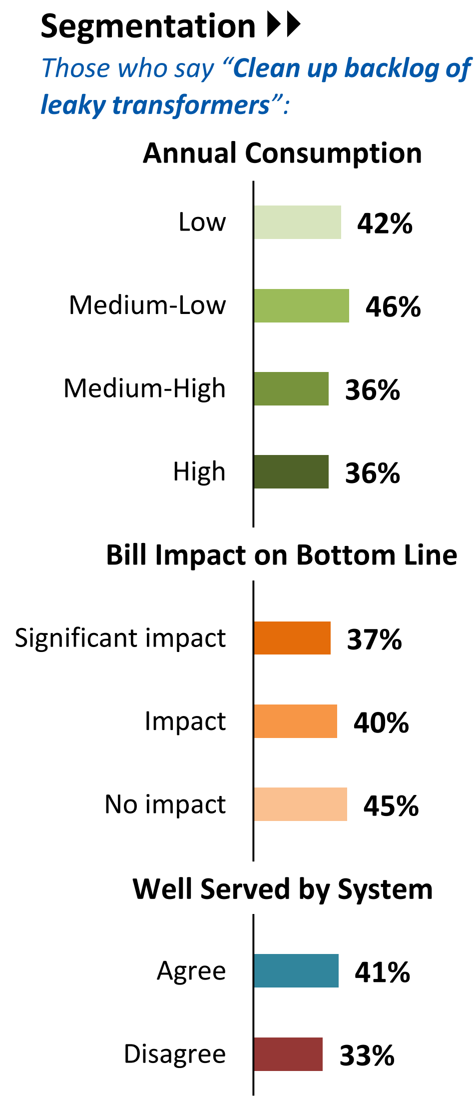
INNOVATIVE RESEARCH GROUP

Leaky Transformers

Mid-Sized Business

Q Which of the following is closest to your point of view regarding Ensource's proposed transformer replacement program?
[asked all respondents, n=200]





INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (3%) not shown.

Rometown Overhead Preamble

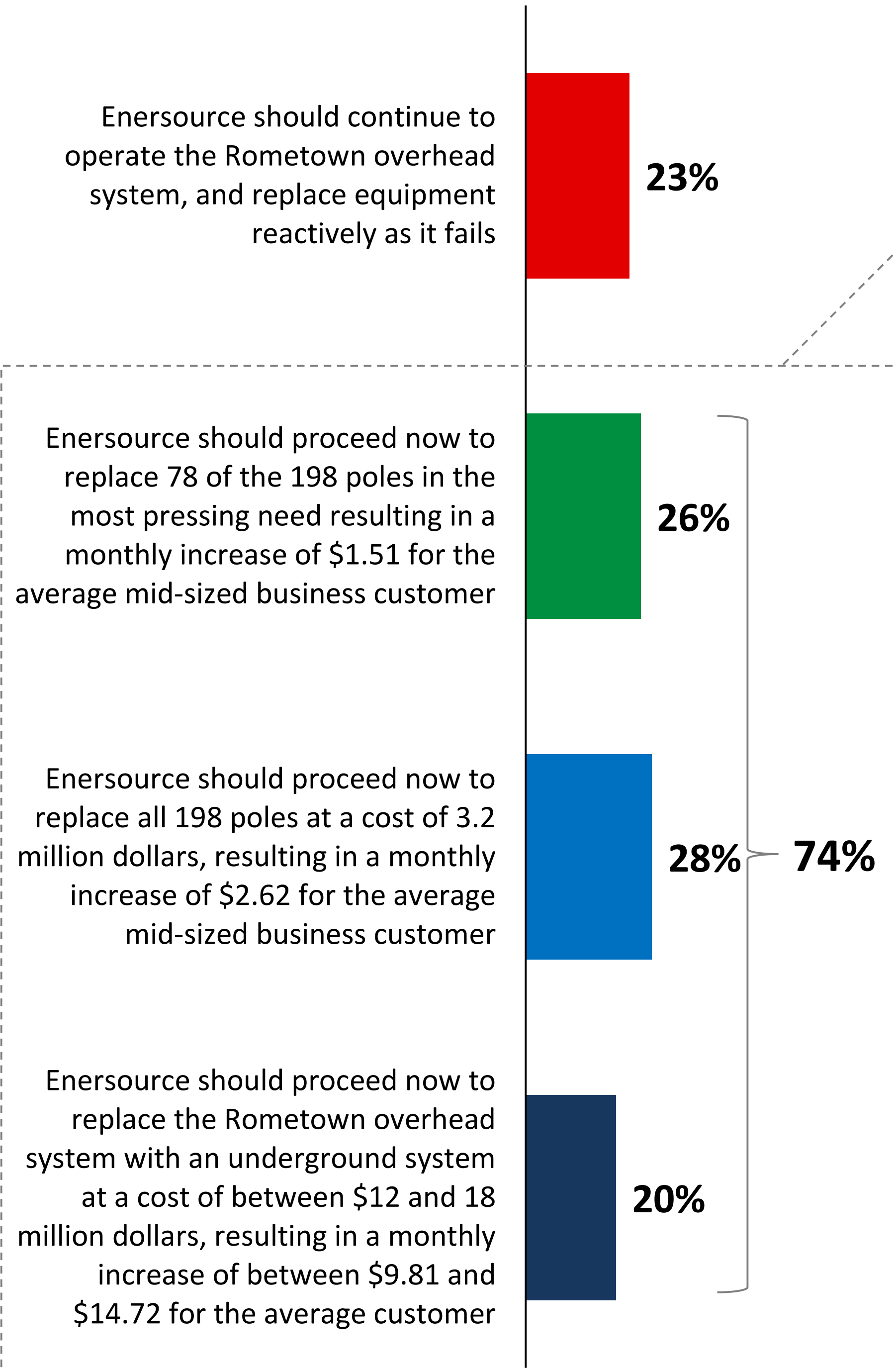
Mid-Sized Business

"Another proposed project addresses the Rometown area Overhead system. There are 198 poles in this particular system. 68 out of 198 have been flagged as poor while another 56 are seen to be in fair condition. A total of 78 have been flagged for urgent replacement. This network of poles uses older technologies that will be replaced when the system is eventually rebuilt, but any repairs done today will have to use the older technology. It is more efficient to replace all the poles at once than to replace them one at a time but it costs less in the short run only to replace the poles most in need of repair."

Rometown Overhead

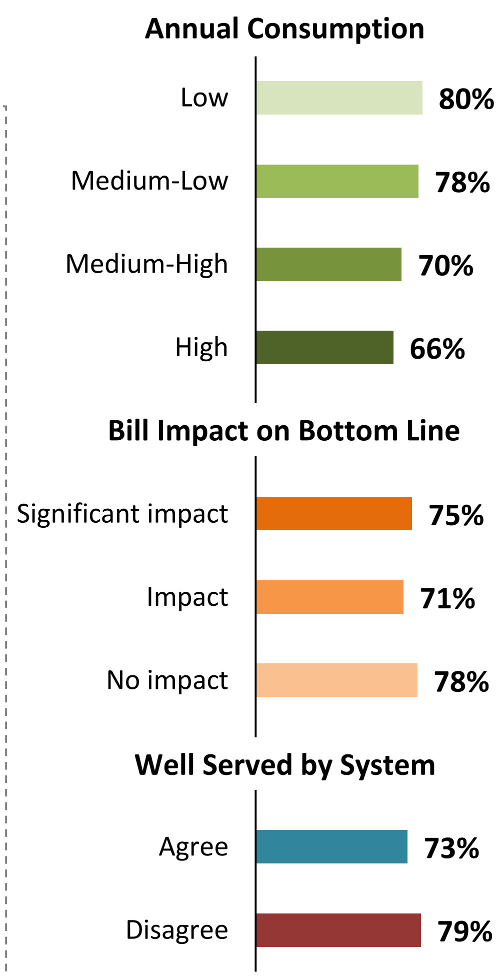
Mid-Sized Business

Q Which of the following is closest to your point of view regarding Enersource's proposed Rometown Overhead system rebuild program?
[asked all respondents, n=200]



Segmentation

*Those who say "**Spend more on Rometown Overhead rebuild**":*



Note: 'Don't know' (4%) not shown.

Opinion of Proposed ICM Rate Impact

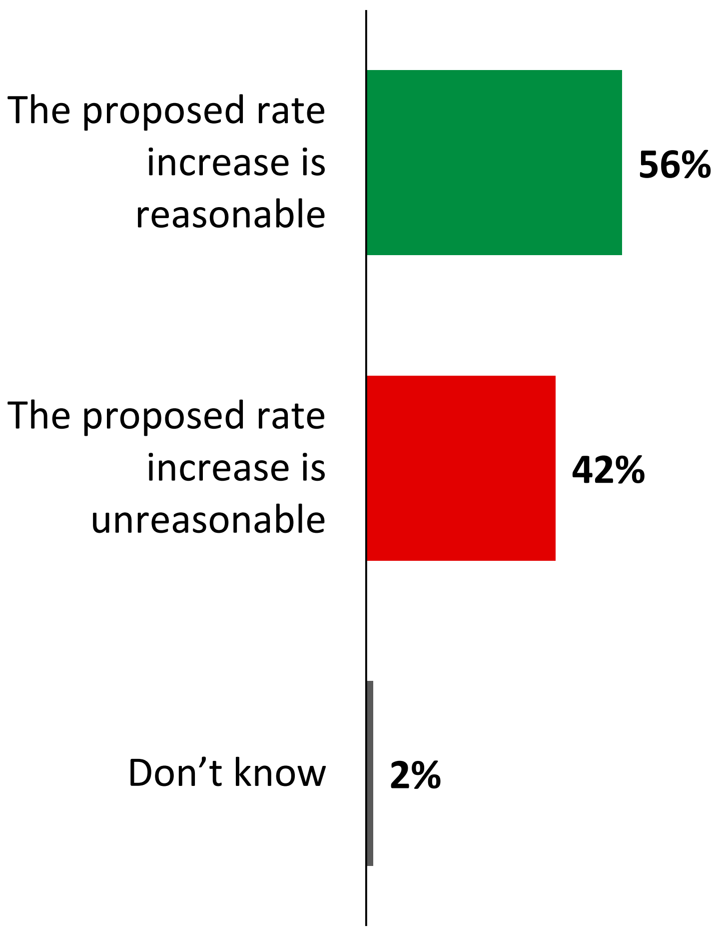
Mid-Sized Business

Q

As I mentioned earlier, each year Enersource is permitted to increase rates to reflect inflation minus a stretch factor which requires Enersource to find savings to keep cost increases below inflation. In order to reduce the backlog of leaking transformers and to replace the most high risk poles in the Rometown overhead system, Enersource would need to add a $7.72 charge to the typical mid-sized business customers monthly electricity bill, from 2019 to 2026.

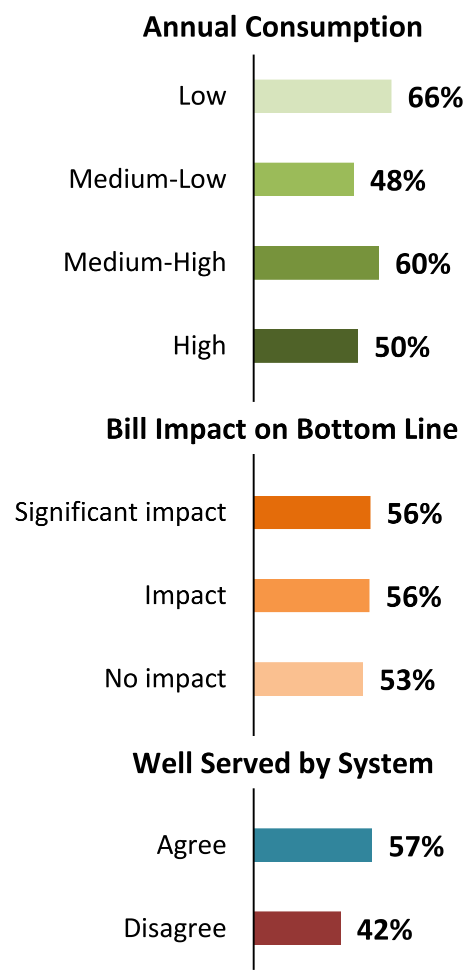
That would result in an annual increase of $92.64 each year over the course of the next eight years – *totalling $741.12 over that period.*

What is your opinion on this proposed rate increase in 2019?
[asked all respondents, n=200]



Segmentation

*Those who say "**Rate increase is reasonable**":*



Note: 'Refused' (1%) not shown.

Large Use Customers (2MW+)

Custom Online Survey: *Methodology*

Survey Design

These are the findings of an **Innovative Research Group** (INNOVATIVE) online survey conducted among **Large Use customers (2MW+) in the Enersource rate zone** between May 17 and 29, 2018.

The focus of these surveys was to collect feedback on expectation, needs and preference as well as trade-offs related to DSPs and specific projects brought forward for the purposes of the ICM applications. Each of surveys were customized to reflect the estimated rate impacts for individual Large Use customers related to specific capital projects in the Enersource rate zone.

Alectra Utilities provided INNOVATIVE with an email contact list consisting of the prime contact for each of its **36 Large Use customers** in the Enersource rate zone. INNOVATIVE provided each key account contact with a unique URL via an email invitation so that only customers identified by Alectra Utilities were able to complete the survey and complete the survey only once.

Customers were sent <u>three reminder emails</u> to encourage survey participation. In addition, Alectra Utilities staff followed up with customers by telephone to encourage survey participation.

The analysis of this report is based on **9 of 36** Large Use customers in the Enersource rate zone (**a survey completion rate of 25%**).

Individual Large Use customers responses were anonymous and no identifiable respondent information was shared with Alectra Utilities. Responses were combined to protect the confidentiality of individual Large Use customers.

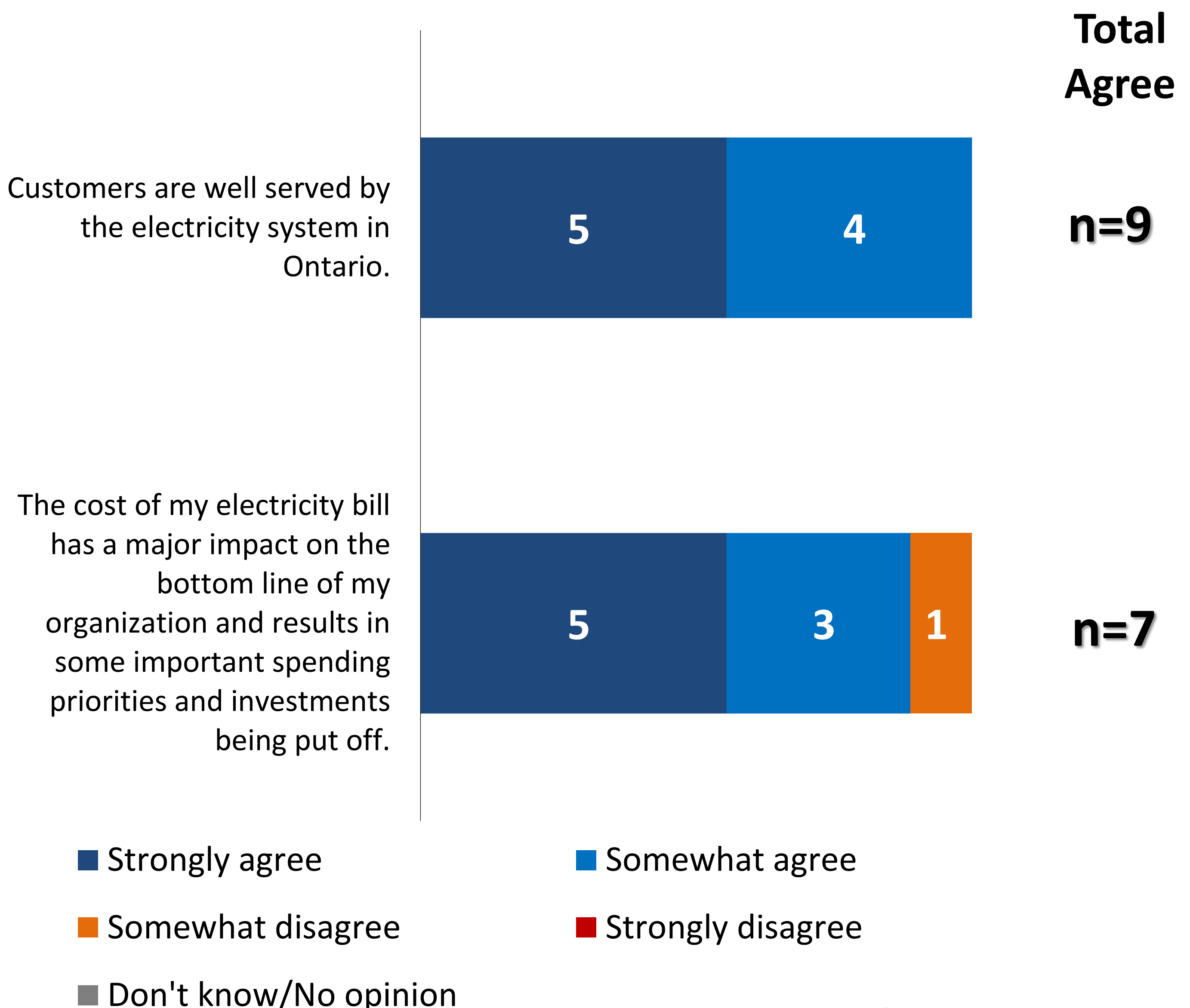
Note: *Graphs and tables may not always total 100% due to rounding values rather than any error in data. Sums are added before rounding numbers. Caution interpreting results with small n-sizes.*

INNOVATIVE RESEARCH GROUP

Segmentation & Firmographics

Large Use (2MW+)

Q For each statement please tell me if you would strongly agree, somewhat agree, somewhat disagree or strongly disagree. If you don't know enough to say or don't have an opinion just let me know.
[asked all respondents, n=9]

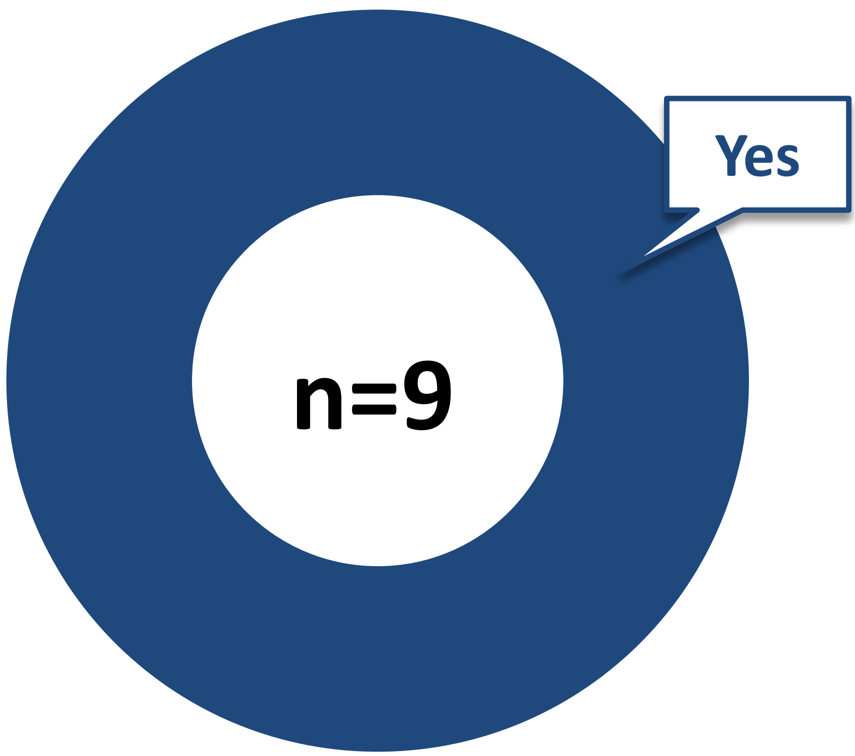


Awareness of Merger

Large Use (2MW+)

Q You may have recently heard that **Enersource** has merged with neighbouring electricity distributors to form a new company called **Alectra Utilities**.

Had you heard of the Alectra Utilities merger before this survey?
[asked all respondents, n=9]

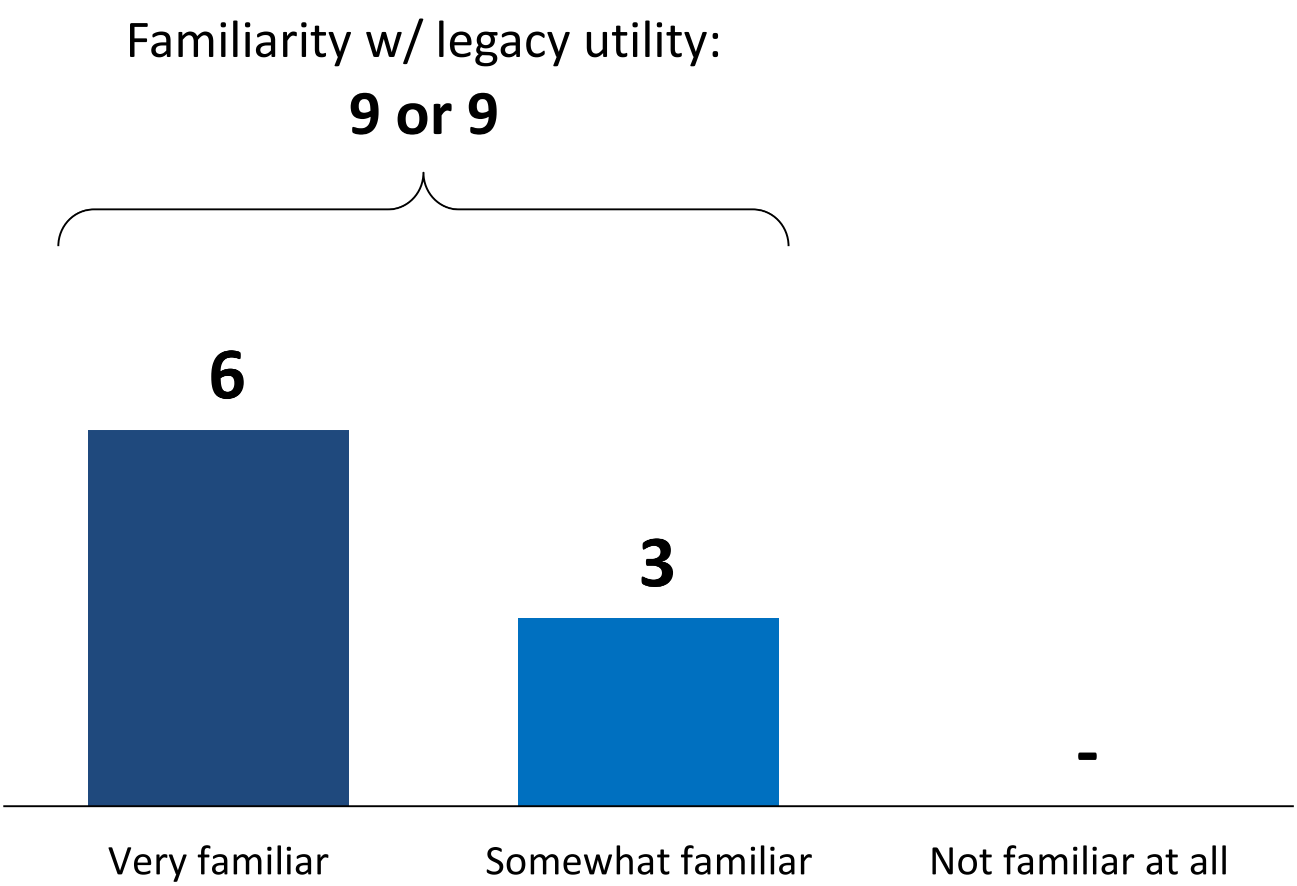


Familiarity with Enersource

Large Use (2MW+)

Q First, let’s talk about your experience. As you may know, **Enersource** operates and maintains the local electricity distribution system in this area. This is the system that takes the electricity from provincial transmission lines and brings it to your business through a network of wires, poles and other equipment that is owned and operated by **Enersource**.

How familiar are you with **Enersource**?
[asked all respondents, n=9]

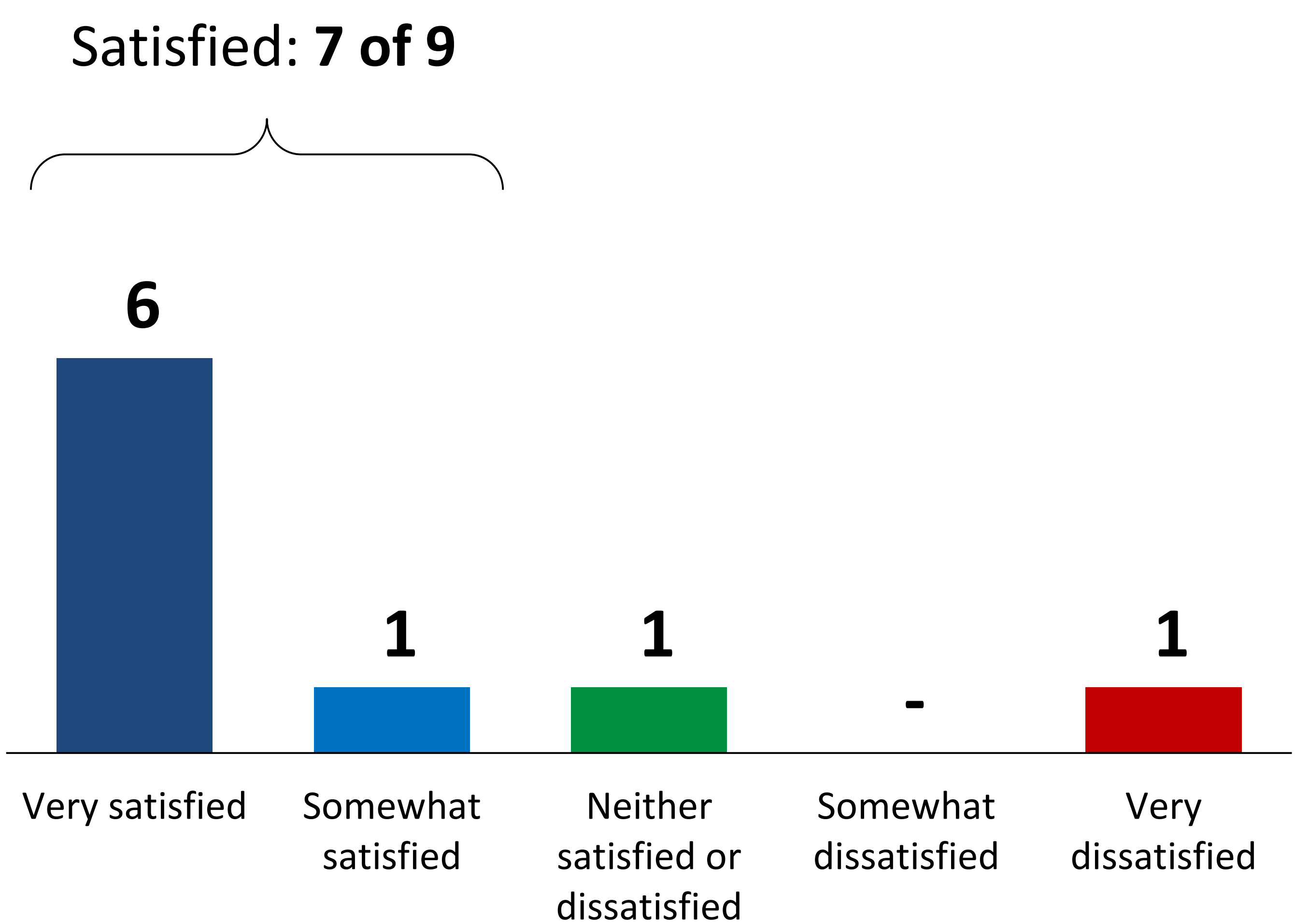


Note: ‘Don’t know’ (0) not shown.

Satisfaction with Services

Large Use (2MW+)

Q In general, how satisfied or dissatisfied are you with the services your organization receives from **Enersource**? Would you say you are very satisfied, somewhat satisfied, somewhat dissatisfied, or very dissatisfied?
[asked all respondents, n=9]



Note: 'Don't know' (0) not shown.

Suggestions for Improvements

Large Use (2MW+)

Q Is there anything in particular **Enersource** can do to improve its service to your organization?

[asked all respondents, n=9]

4 of 9 → Nothing/Don't know

Verbatim:

Respondent 1)
Communication as to 'why?' During power outages communications should be improved to their large customers.

Respondent 2)
Enersource has been great in getting ahead of some of the distribution issues in the past and operates really well.

Respondent 3)
Improve reliability of the grid system to the customer. There has been many power disruptions lasting a few seconds that takes down the plant entirely, and at times more than one a day. Would like to see feedback from Enersource as to what they are doing to address these issues and more detail to what impacts our particular feed(s) that would help eliminate these problems.

Respondent 4)
We were very satisfied with Enersource and our relationship in terms of communication and reliability meetings. However, since the merger to Alectra, we have not heard from anyone and service has somewhat decreased. We want to restart our reliability meetings.

Respondent 5)
We would appreciate periodic meetings (quarterly), either face to face or thru calls, with an Account Manager, to discuss any pending changes to service or billing, and/or answer specific questions we my have.

INNOVATIVE RESEARCH GROUP

Familiarity with Amount of Electricity Bill Remitted

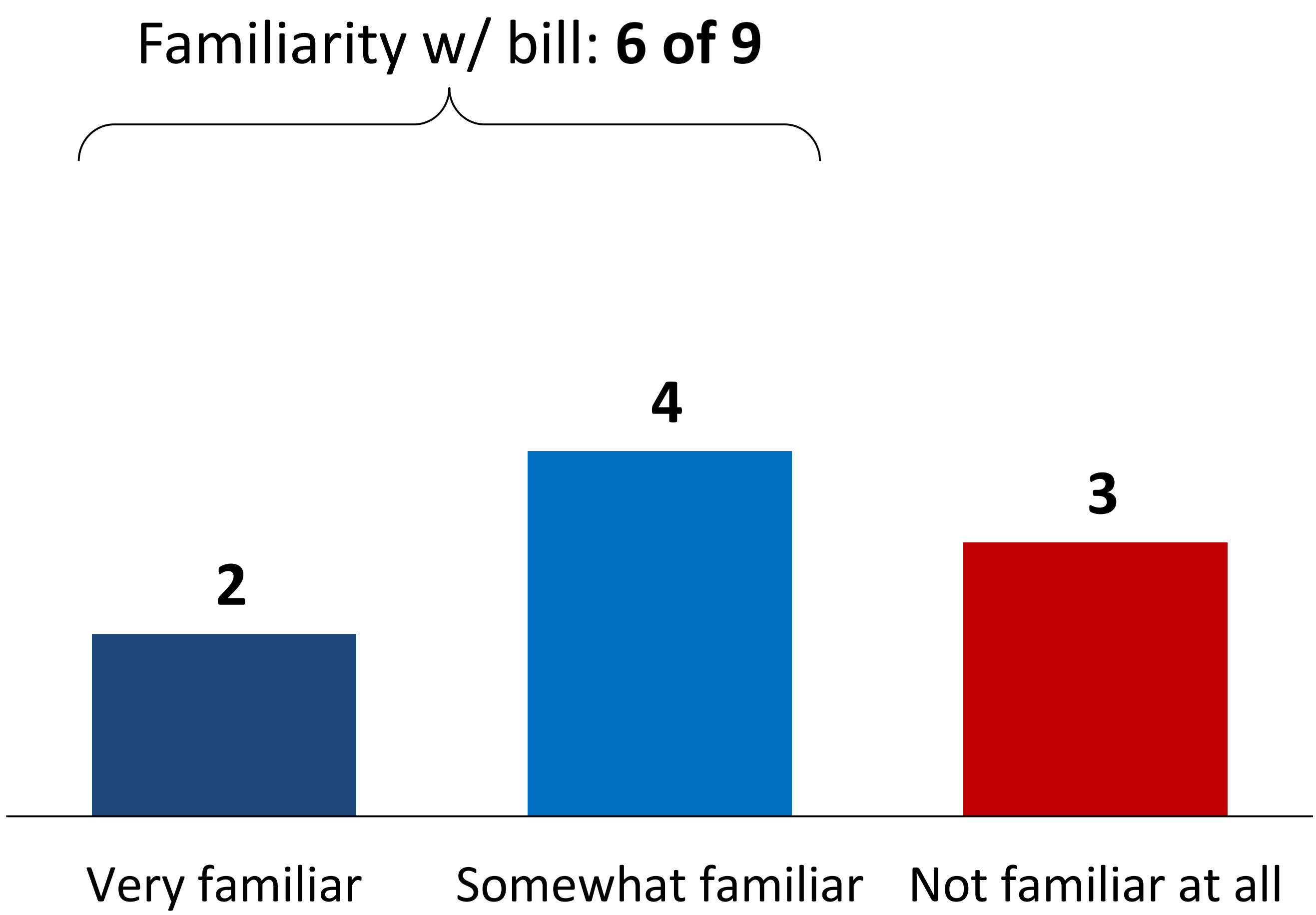
Large Use (2MW+)

Q The next question is specifically about [**PIPE**]’s electricity bill.

While **Enersource** is responsible for collecting payment for the entire electricity bill, they retain about [**PIPE**] of your organization’s bill. This is about [**PIPE**] on your average [**PIPE**] monthly electricity bill. The rest of the bill goes to power generation companies, transmission companies, the provincial government and regulatory agencies.

Before this survey, how familiar were you with the percentage of your organization’s electricity bill that is retained by **Enersource**?

[asked all respondents, n=9]



Note: ‘Don’t know’ (0) not shown.

Customer Priorities

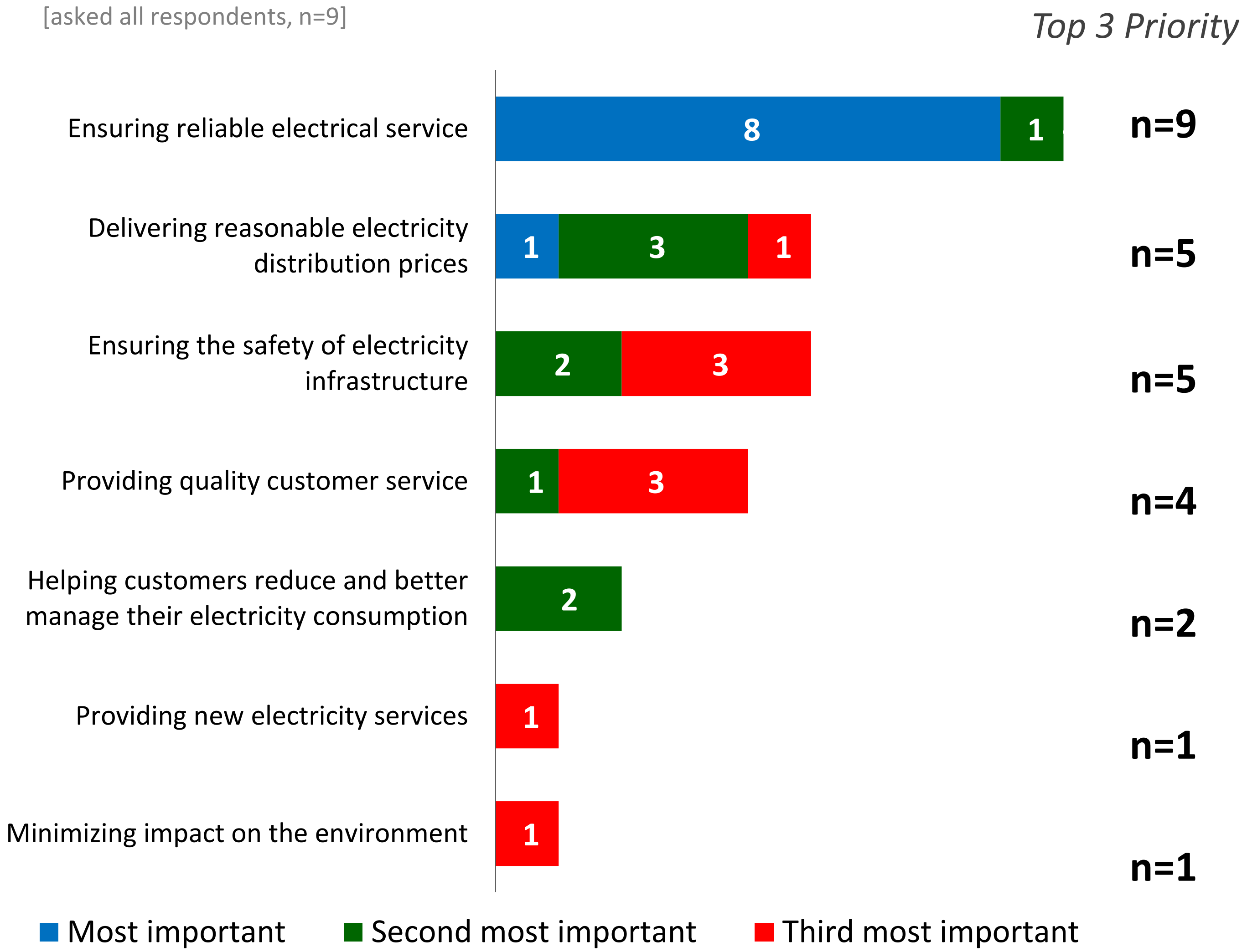
Large Use (2MW+)

Q **Now lets turn to our second topic – outcomes.** Enersource regularly holds discussions with its customers to better understand how it should set spending priorities with the money customers pay for service.

In recent conversations with customers, a number of company goals were identified as key priorities for Enersource.

Among the following Enersource priorities, please tell me which one is most important to you.

[asked all respondents, n=9]



Note: 'Don't know' (0) not shown.

Additional Priorities

Large Use (2MW+)

Q Are there any other important priorities that Enersource should be focusing on that weren't included in the previous list I read to you?
[asked all respondents, n=12]

7 of 9 → No/Don't know

Verbatim:

Respondent 1)

a) Electrical reliability is most important; increased maintenance surveys and improved infrastructure.
b) Outage communications is also very important to us.

Respondent 2)

Reliability is my most important priority.

System Reliability

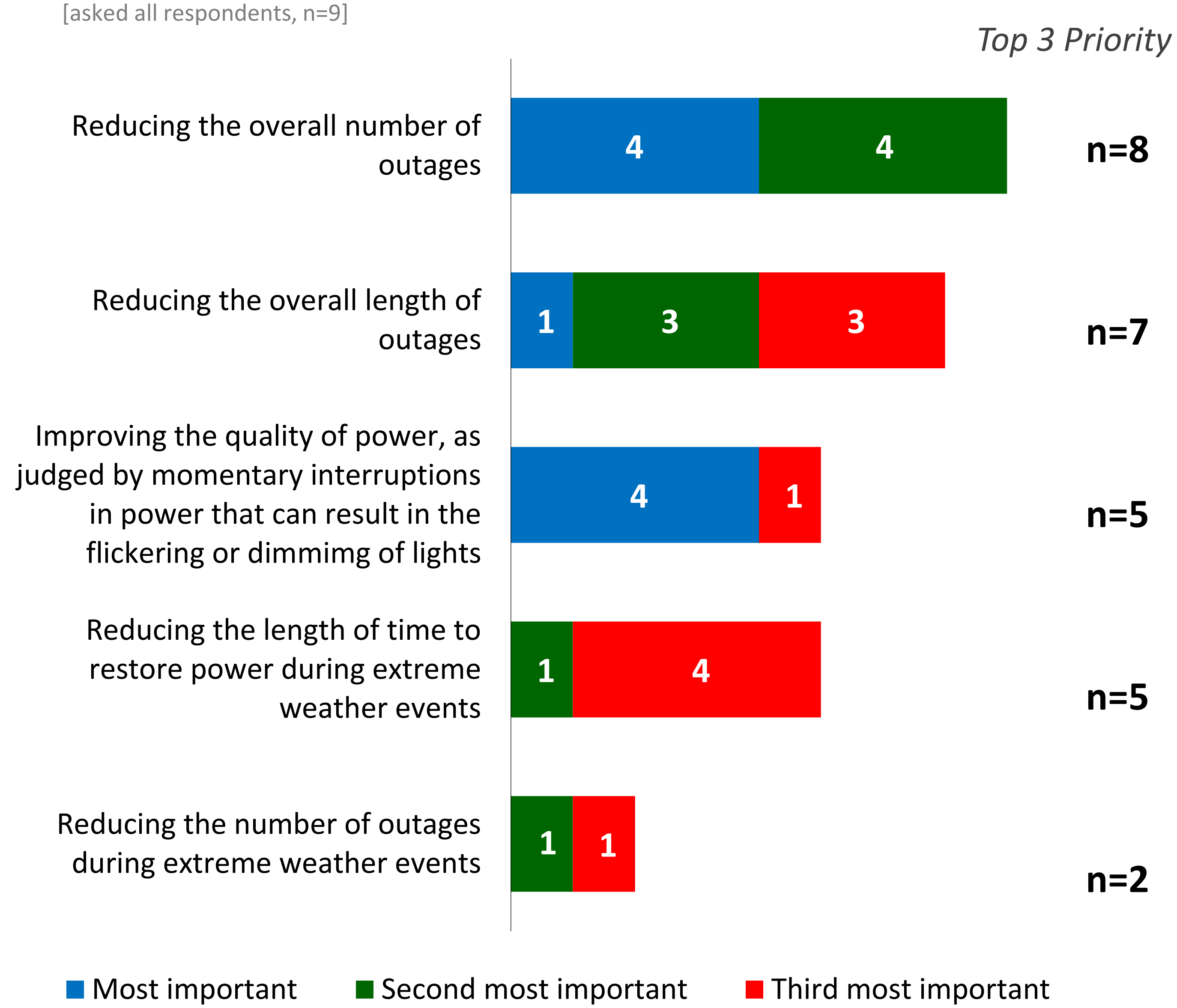
Large Use (2MW+)

Q **We would like to understand your experience with reliability.**

There are different outcomes when customers talk about power reliability.

Among the following reliability outcomes, please tell me which one is most important to you.

[asked all respondents, n=9]



Note: 'Don't know' (0) not shown.

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Familiarity with how Electricity Rates are Set

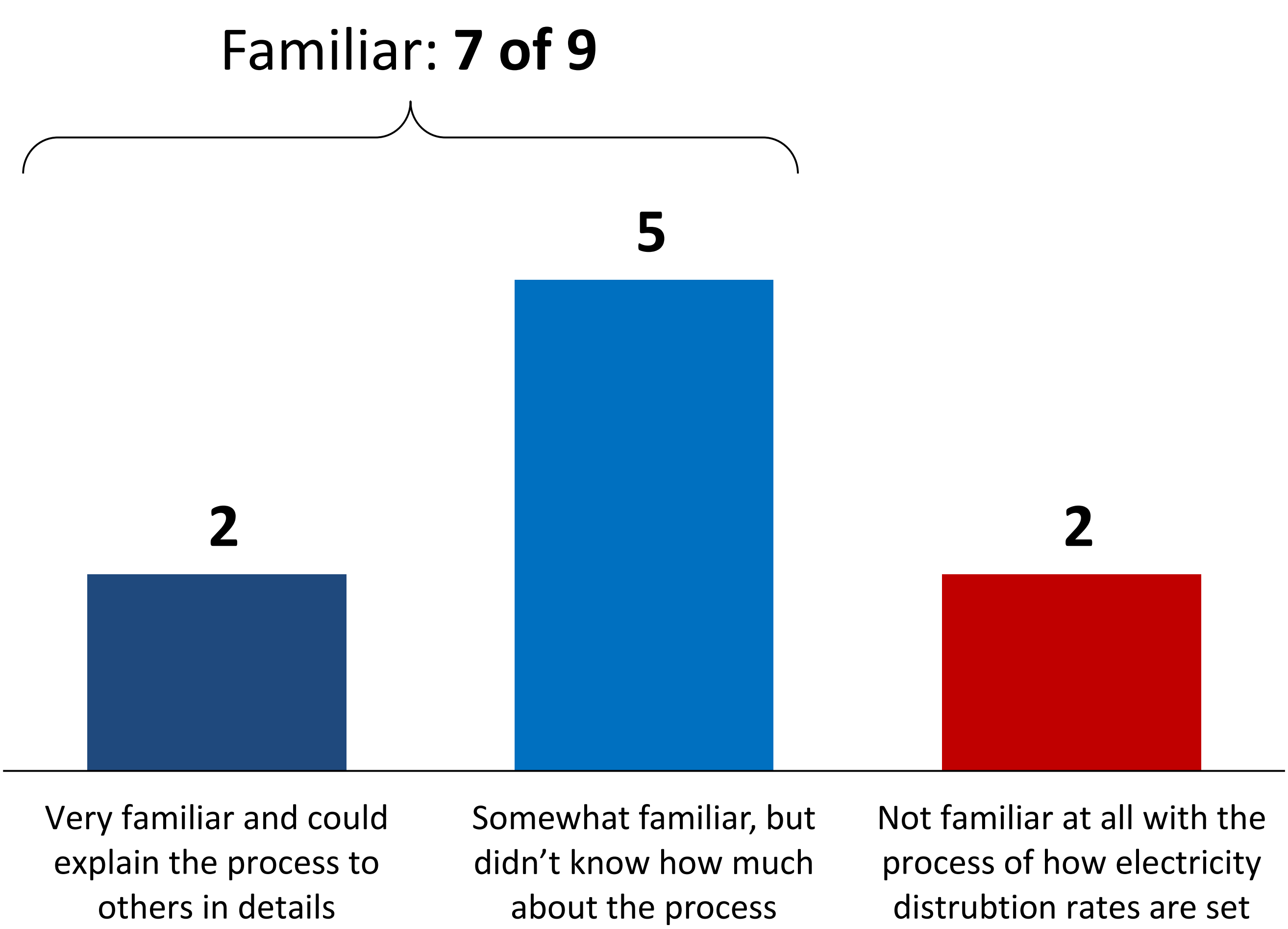
Large Use (2MW+)

Q ***Now, lets turn to our third topic: investment trade-offs***. The electricity industry in Ontario is regulated by the Ontario Energy Board, otherwise known as the OEB. The OEB sets electricity rates in Ontario.

The OEB requires electricity distributors, such as Alectra Utilities, to develop its business plan and distribution system plan, as well as make spending and investment decisions based on customer feedback.

Electricity distributors are funded by the distribution rates paid by their customers. Periodically, distributors are required to file rate applications with the OEB to justify the amount of funding they need to safely and reliably distribute electricity to their customers.

Before this survey, how familiar were you with how electricity distribution rates are set in Ontario?
[asked all respondents, n=9]



Note: 'Don't know' (0) not shown.

Investment Trade-Off Preamble

Large Use (2MW+)

"Alectra Utilities is now starting to create its first overall investment plan as a merged utility. The OEB divides electricity distributor investments into four categories. One category called system access includes investments that are mandatory under the distributor's licence to operate. These include reasonable costs to connect new customers and moving existing infrastructure to accommodate civic improvements.

The spending in the other three categories involves finding the right balance between the impact on your bill and the service you receive. We would now like ask a few questions about your preferences when it comes to finding the right balance between costs and other outcomes.

I want to start by asking you about system renewal, that is the projects that replace aging electrical infrastructure."

Investments in Aging Infrastructure

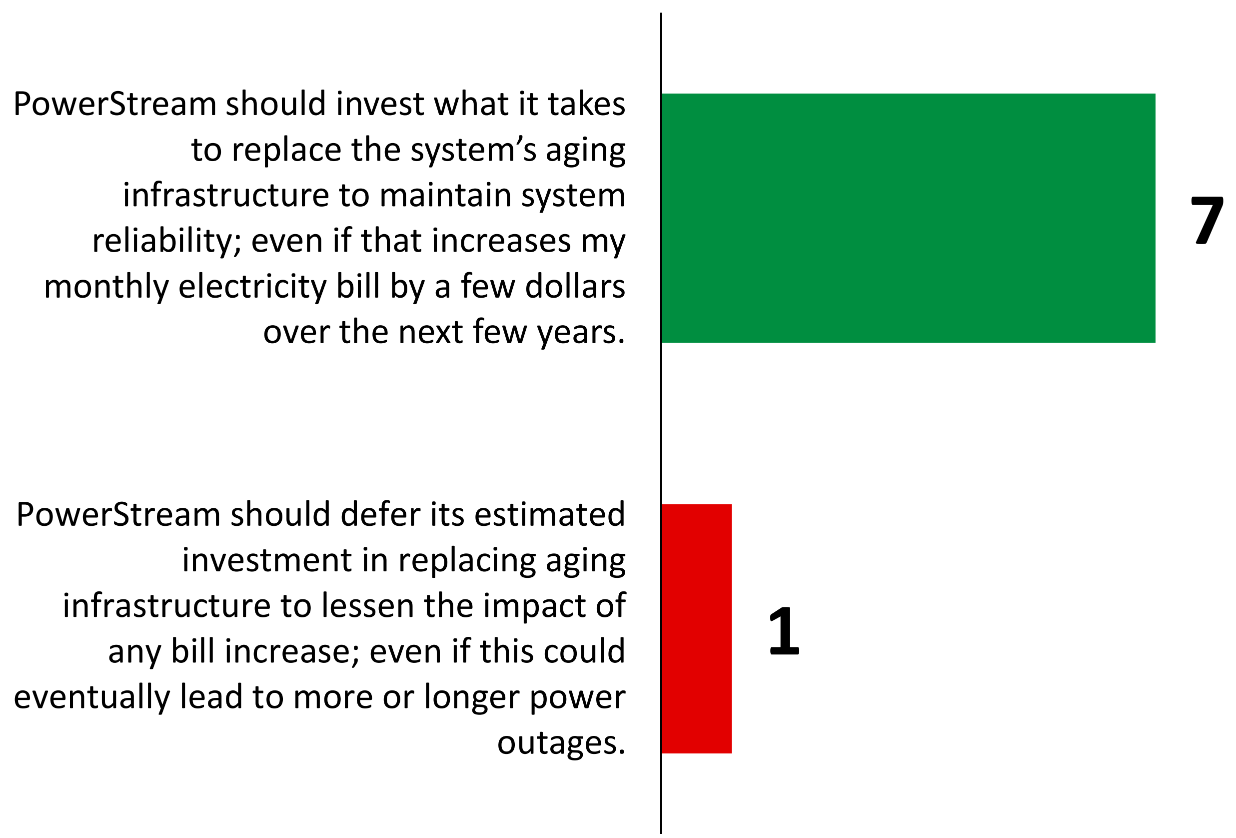
Large Use (2MW+)

Q While Enersource works hard to prolong the life of the assets that make up Mississauga's distribution system, eventually these assets reach the end of their useful life and require replacement.

Currently the average customer experiences **1.08 outages** a year for an average of **35 minutes and 40 seconds**. When adjusted to remove outages due to loss of supply from the transmission system and major storms, **56% of unscheduled outages** are as a result of equipment failure in the Enersource rate zone.

However, it is not possible to predict exactly when a specific piece of aging equipment will fail. Enersource must decide the pace at which it replaces this aging equipment.

Which of the following statements best represents your point of view?
[asked all respondents, n=9]



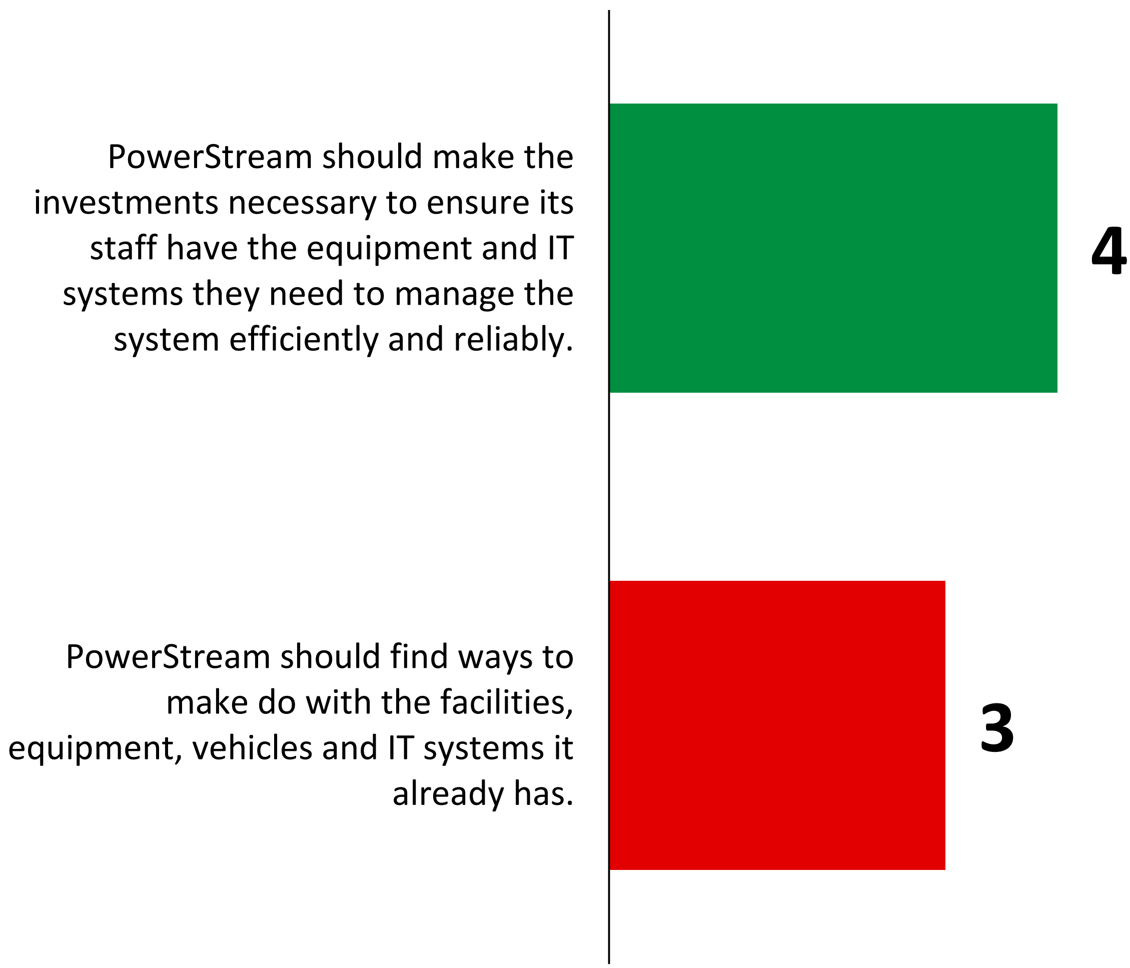
Note: 'Don't know' (n=1) not shown.

General Plant Investments

Large Use (2MW+)

Q As a company, Enersource needs facilities to house staff and equipment, vehicles and tools to service electrical infrastructure, and IT systems to manage the distribution system and customer information..

Which of the following statements best represents your point of view?
[asked all respondents, n=9]



Note: 'Don't know' (n=2) not shown.

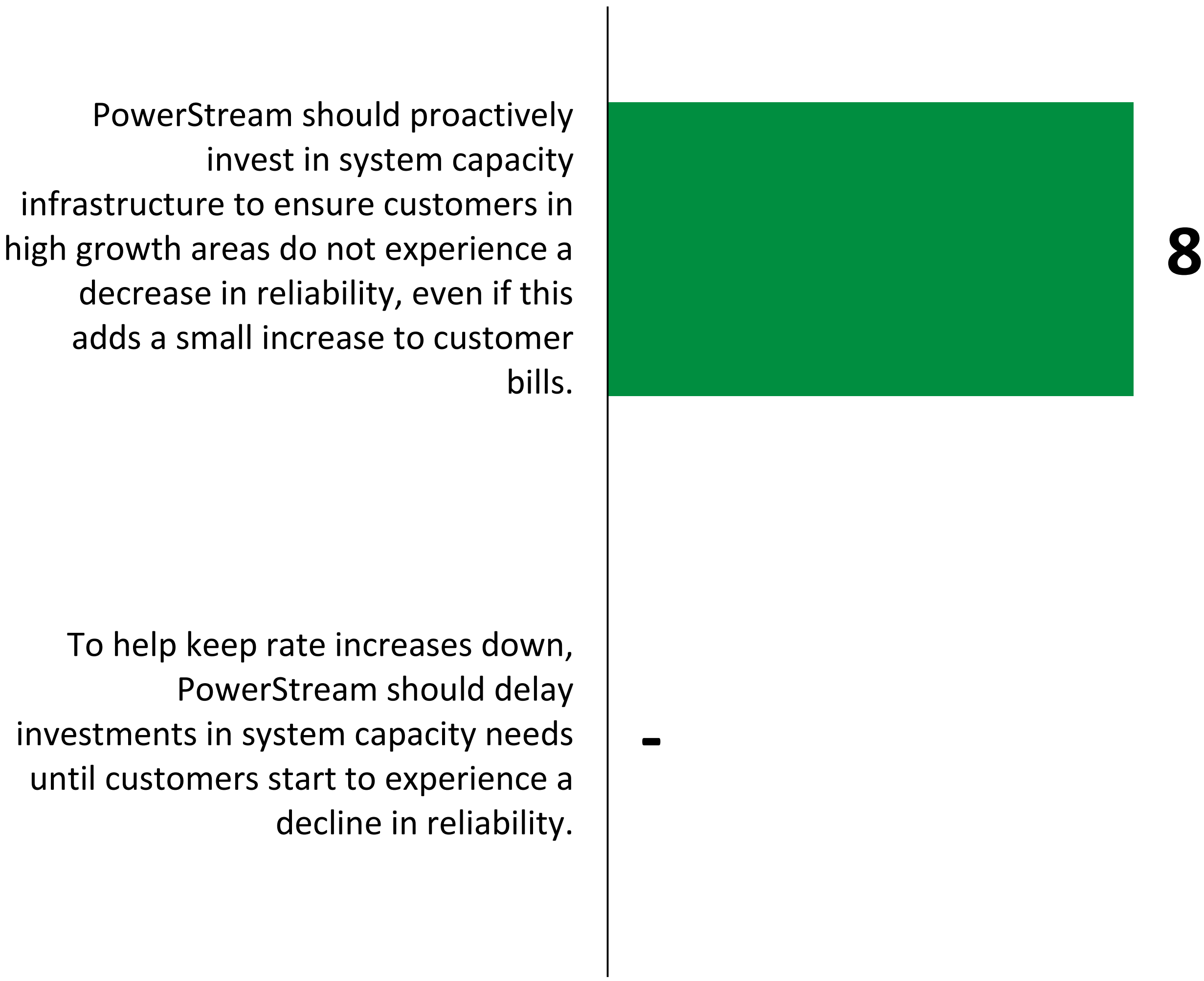
System Service Investments

Large Use (2MW+)

Q With growth in various parts of the Enersource service area comes greater demand for electricity. This increased demand for electricity puts increased pressure on the existing electrical infrastructure. Eventually, further infrastructure investments will be required to support increased demand for electricity.

With this in mind, which of the following statements best represents your point of view?

[asked all respondents, n=9]



Note: 'Don't know' (n=1) not shown.

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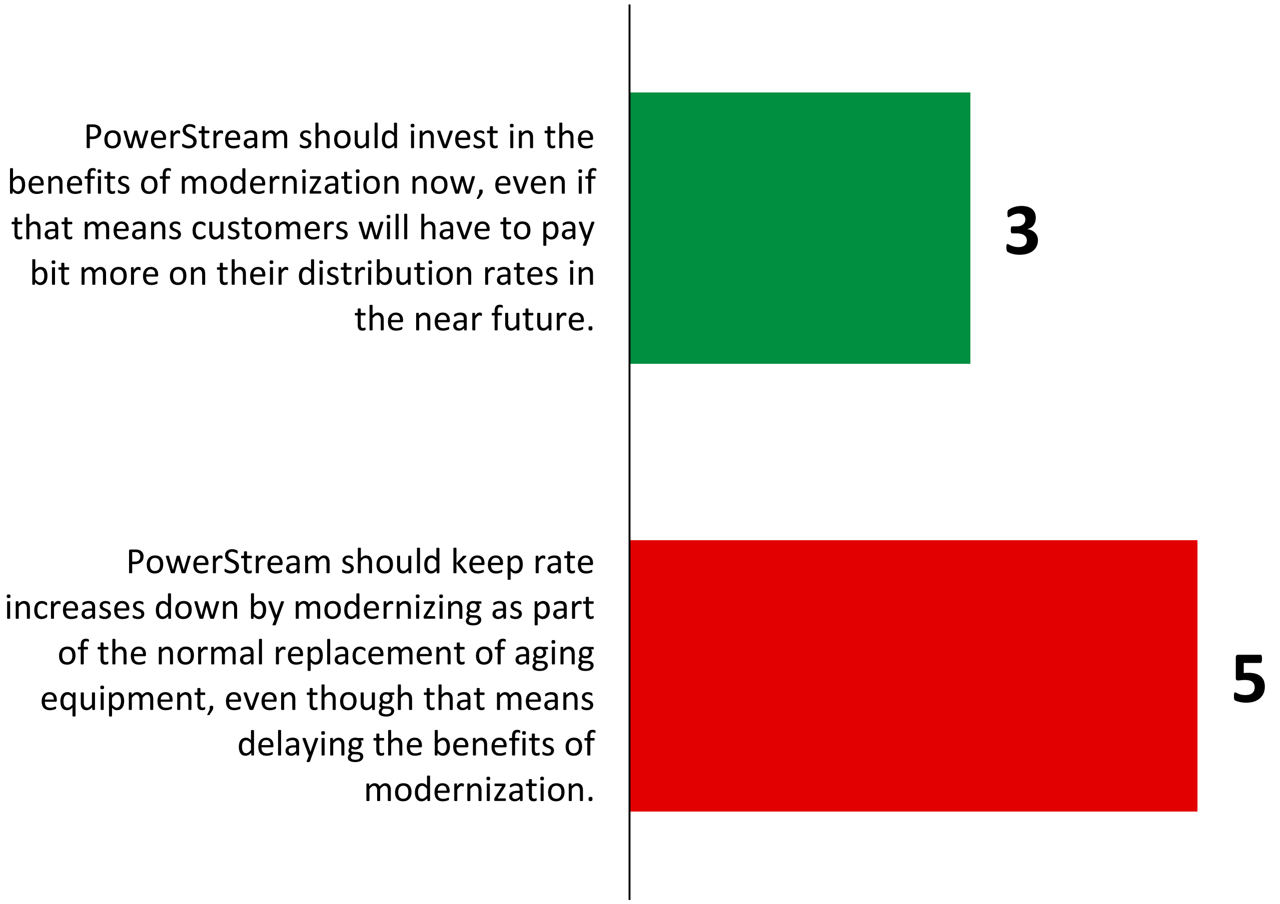
Modernizing the Distribution System

Large Use (2MW+)

Q There are new technologies that Enersource can implement such as microgrids, electricity storage, and automatic switches that can give customers more choices, improve reliability or reduce the impact on the environment.

These investments would create a better grid, but are not required to maintain the reliability that you experience today.

Which of the following statements best represent your point of view?
[asked all respondents, n=9]



Note: 'Don't know' (n=1) not shown.

Familiarity with OEB "Cost Saving" Requirements

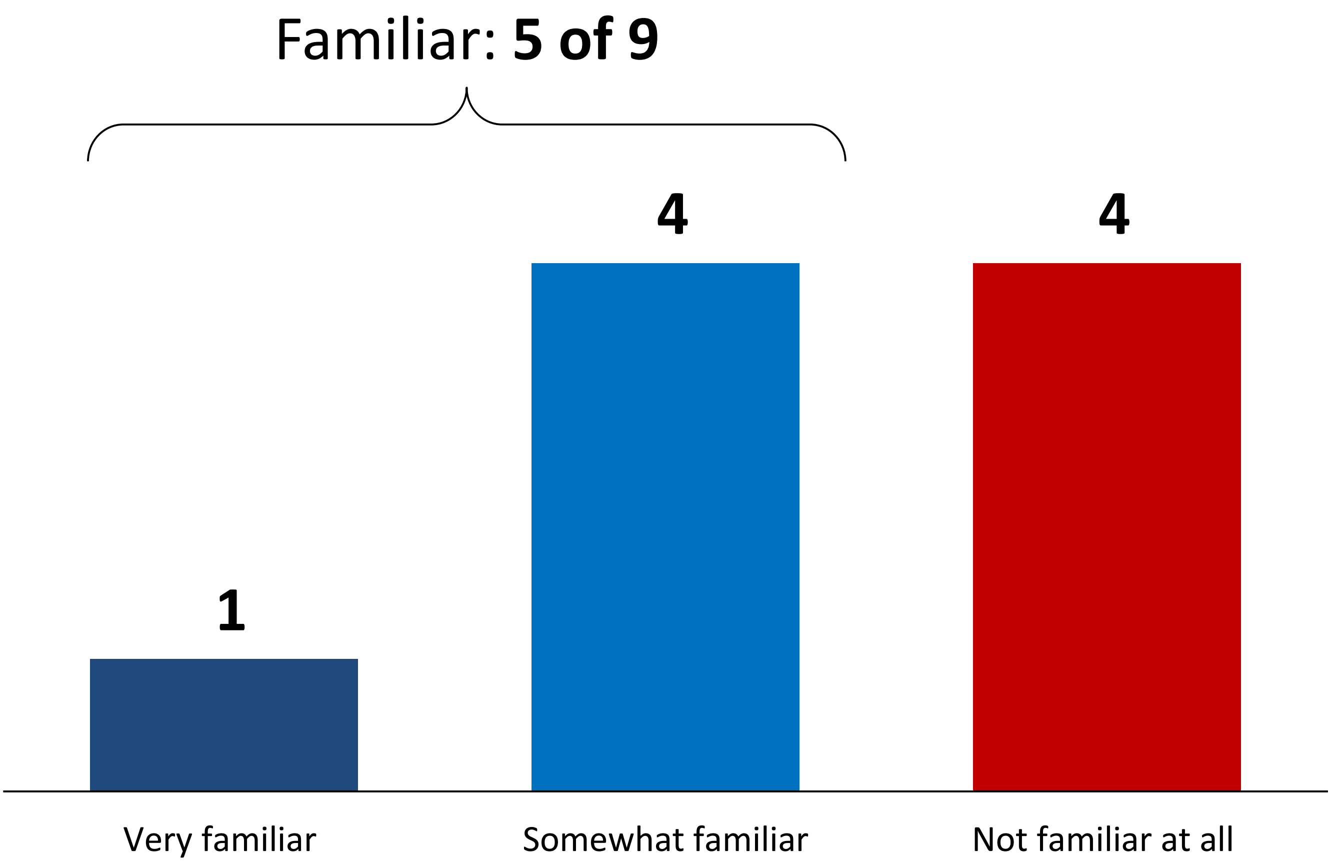
Large Use (2MW+)

Q As we mentioned earlier, the rates you pay to Enersource are set by the OEB through a public process. Enersource's current rates were approved in a 2013 application and will be in place until 2027.

Each year Enersource is permitted to increase rates to reflect inflation minus savings targets established by the OEB which requires Enersource to keep cost increases below inflation.

Before this survey, how familiar were you with the OEB requirement for Enersource to find savings every year?

[asked all respondents, n=9]



Note: 'Don't know' (0) not shown.

ICM Rate Impact & Leaky Transformer Preamble

Large Use (2MW+)

"Now let's turn to our final topic – possible new projects. As part of the OEB policies, there is an option for Enersource to apply for additional rate increases for discrete projects that are prudent, needed and not supported by existing rates. Looking ahead to 2019, Enersource has identified two system renewal projects that need more investment than the existing budget allows. System renewal projects are a mix of replacing aging infrastructure and emergency repairs."

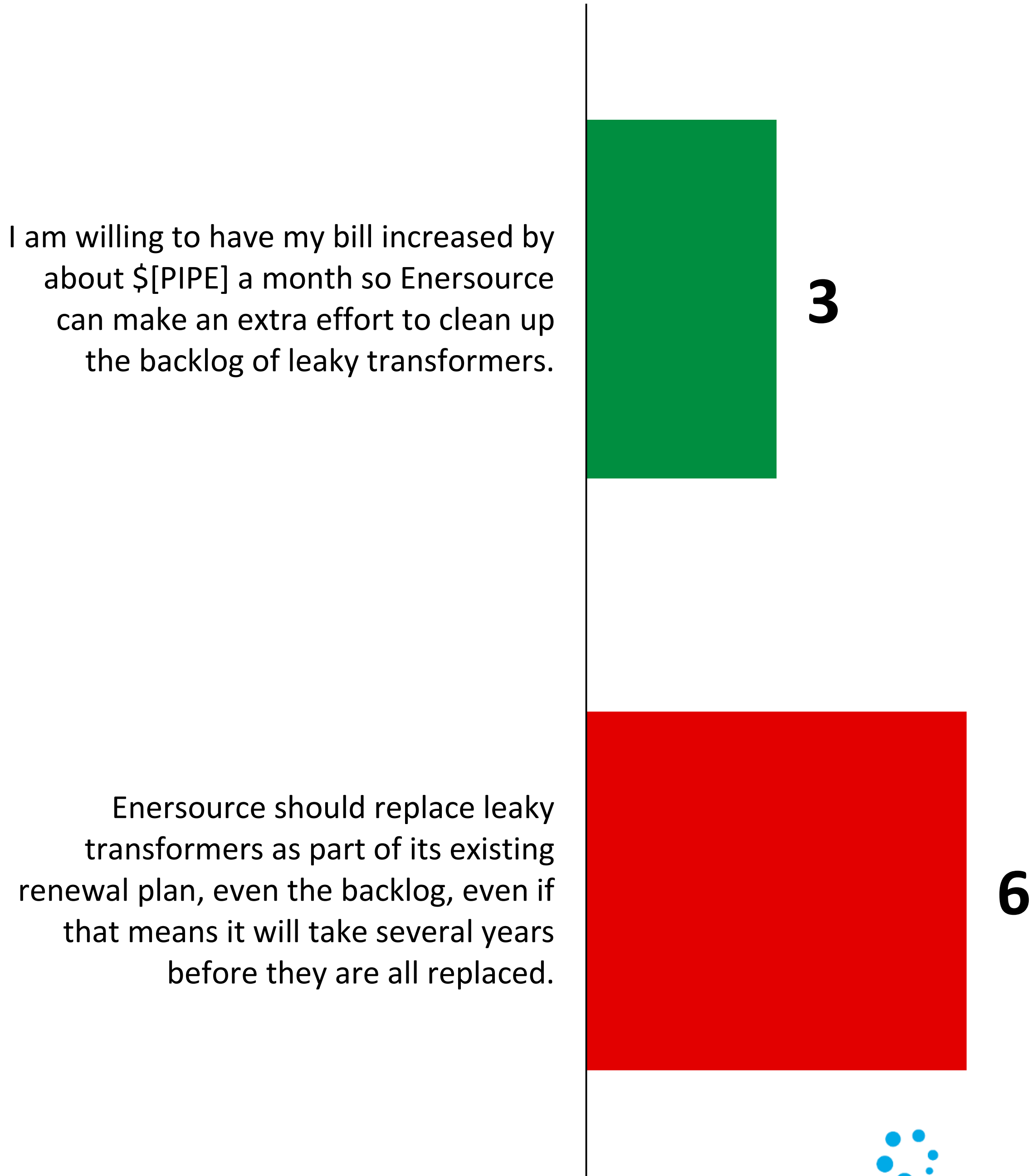
Leaky Transformers

"One of these projects deals with leaky transformers. Enersource has 25,000 transformers which are used to reduce the voltage of electricity as it moves from major transmission lines to the lines going into homes and businesses. Earlier this decade, Enersource identified a backlog of almost 4,000 transformers that show signs of leaking. By the end of this year, over 3,000 of these transformers will have been replaced. However, that will still leave over 600 needing replacement."

Leaky Transformers

Large Use (2MW+)

Q Which of the following is closest to your point of view regarding Ensource's proposed transformer replacement program?
[asked all respondents, n=9]



Note: 'Don't know' (0) not shown.

Rometown Overhead Preamble

Large Use (2MW+)

"Another proposed project addresses the Rometown area Overhead system. There are 198 poles in this particular system.

- *68 out of 198 have been flagged as poor while another 56 are seen to be in fair condition.*
- *A total of 78 have been flagged for urgent replacement.*

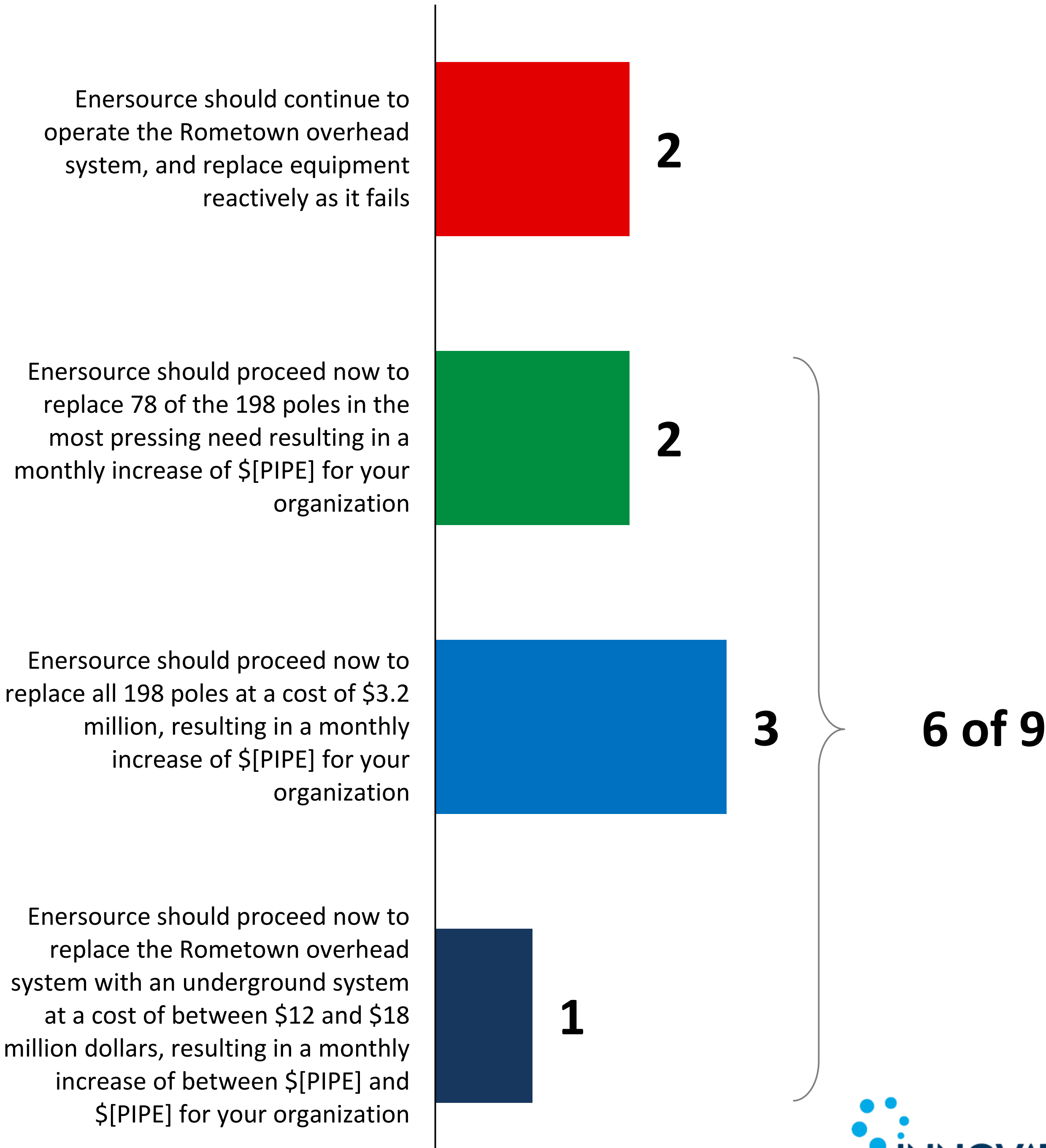
This network of poles uses older technologies that will be replaced when the system is eventually rebuilt, but any repairs done today will have to use the older technology. It is more efficient to replace all the poles at once than to replace them one at a time but it costs less in the short run only to replace the poles most in need of repair."

Rometown Overhead

Mid-Sized Business

Q Which of the following is closest to your point of view regarding Enersource's proposed Rometown Overhead system rebuild program?

[asked all respondents, n=200]



Note: 'Don't know' (1) not shown.

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Opinion of Proposed ICM Rate Impact

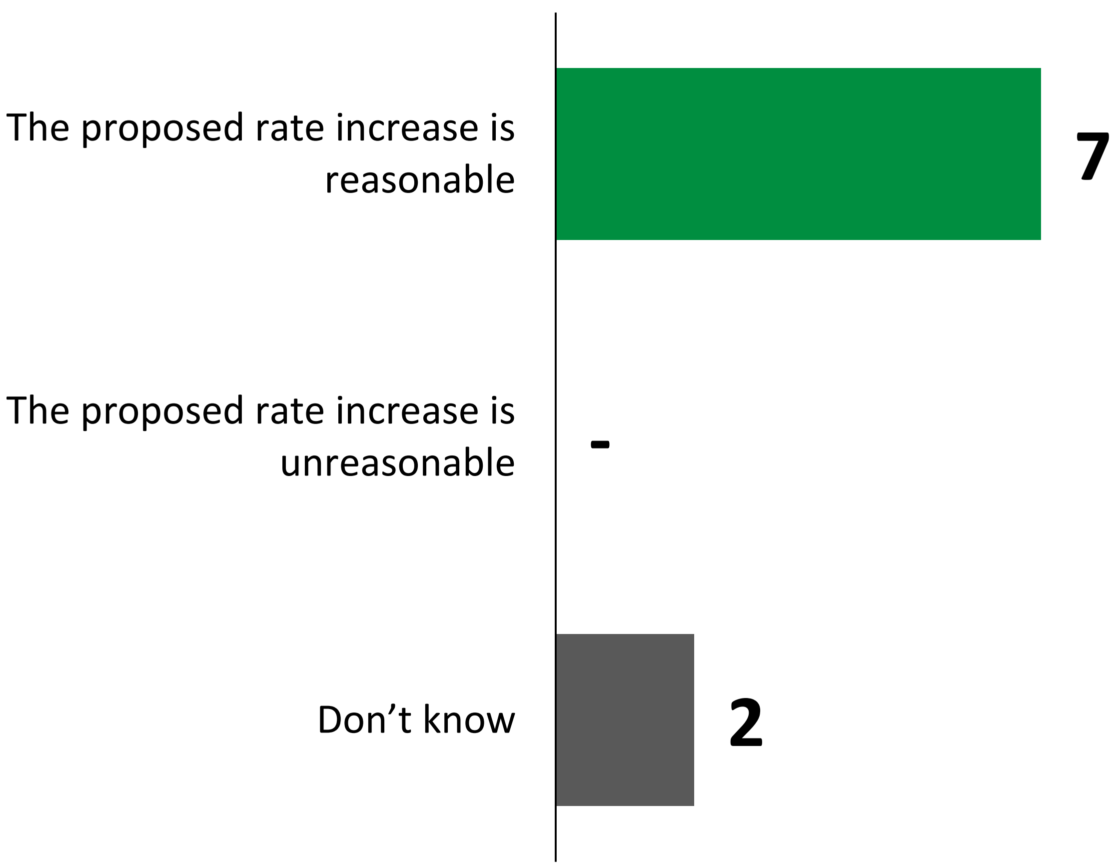
Large Use (2MW+)

Q As I mentioned earlier, each year Enersource is permitted to increase rates to reflect inflation minus a stretch factor which requires Enersource to find savings to keep cost increases below inflation.

In order to maintain the existing plan to replace aging infrastructure and complete the mandatory projects previously discussed, Enersource would need to add a [**PIPE**] charge to the typical mid-sized business customers monthly electricity bill, from 2019 to 2026.

That would result in an annual increase of [**PIPE**] each year over the course of the next eight years – *totalling* [**PIPE**] *over that period.*

What is your opinion on this proposed rate increase in 2019?
[asked all respondents, n=9]



Final Thoughts

Large Use (2MW+)

Q Before this survey concludes, do you have any additional comments or feedback you'd like to share with Alectra Utilities?

Note: all feedback is anonymous and you will <u>not</u> be identified to Alectra Utilities without your expressed permission.

6 of 9 → Nothing/Don't know

Verbatim:

Respondent 1)
Alectra/Enersource should find efficiencies to cover the cost of the projects rather than result in increased billing costs.

Respondent 2)
Thank you for all your help in getting our facilities on-boarded with the recent changes at Alectra.

Respondent 3)
We would like to continue with quarterly or biannual reliability meetings with Alectra, like we did with Enersource. We had developed a really good relationship.

We need strong communications and continued strong relationship with engineering department to respond back to inquiries.

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Building Understanding.

Personalized research to connect you and your audiences.

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Appendix 2.0

INNOVATIVE RESEARCH GROUP

PowerStream Rate Zone

2019 ICM Application Consultation

MAY 2018

STRICTLY PRIVILEGED AND CONFIDENTIAL

Survey Methodologies

Field and Design

For the quantitative portion of the customer consultation, Alectra Utilities invited **PowerStream** heritage customers from three rate classes to participate in a 10-15 minute telephone survey.

- The **residential** survey fielded from **May 10-22, 2018** amongst **n=505** residential customers, with a margin of error of ±4.4%, 19 times out of 20.
- The **small business** survey fielded from **May 11-24, 2018** amongst **n=205** small business customers, with a margin of error of ±6.8%, 19 times out of 20.
- The **mid-market** survey fielded from **May 11-28, 2018** amongst **n=200** mid-market business customers, with a margin of error of ±6.9%, 19 times out of 20.

INNOVATIVE conducted all interviews through its computer assisted telephone interviewing (CATI) system.

This generalizable telephone survey used a stratified random sampling approach based on known characteristics of customers including region and consumption by rate class (residential, GS<50kW and GS>50kW).

Sample lists were provided by Alectra Utilities. Screening questions were designed to ensure only customers who received an electricity bill from Alectra Utilities were included. In addition, residential customers needed to have primary or shared responsibility over their household's electricity bill and only the organization's decision makers on electricity use were included in the business completes. Business customers could also be household customers of Alectra Utilities, but were reminded to respond as their organization's decision-maker as best as possible.

Note: *Graphs and tables may not always total 100% due to rounding values rather than any error in data. Sums are added before rounding numbers. Caution interpreting results with small n-sizes.*

Consumption Quartiles

The tables below illustrate the strata divisions for each rate class, based on region and consumption quartiles.

Dividing customer sample into quartiles based on known characteristics was used to develop accurate quotas to ensure the sample was representative of PowerStream's customer base.

Residential

Region	Low	Medium-Low	Medium-High	High	Total
Aurora	8	7	8	8	**31**
Barrie	20	20	19	20	**79**
Bradford	3	3	3	3	**12**
Markham	37	33	36	32	**138**
Richmond Hill	23	22	20	23	**88**
Vaughan	29	34	32	34	**129**
Other	7	7	7	7	**28**
Total	**127**	**126**	**125**	**127**	**505**

Small Business

Region	Low	Medium-Low	Medium-High	High	Total
Aurora	3	3	0	3	**9**
Barrie	8	8	14	11	**41**
Bradford	1	1	1	2	**5**
Markham	9	14	8	9	**40**
Richmond Hill	6	5	5	5	**21**
Vaughan	19	15	22	17	**73**
Other	6	4	2	4	**16**
Total	**52**	**50**	**52**	**51**	**205**

Rate Class	Low	Medium-Low	Medium-High	High	Total
Mid-Market	n=50	n=50	n=50	n=50	**n=200**

Note: Due to small sample size, no regional quotas were set for mid-market customers in the PowerStream rate zone.

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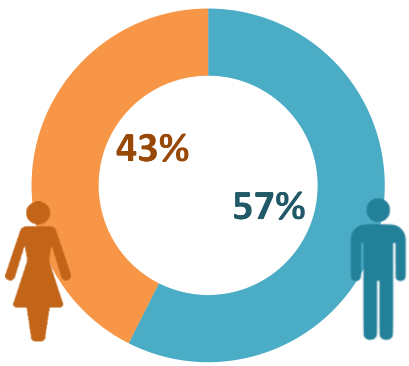
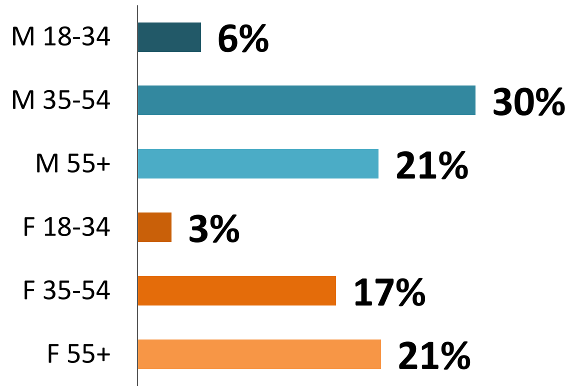
Residential Rate Class

Segmentation & Demographics

Residential

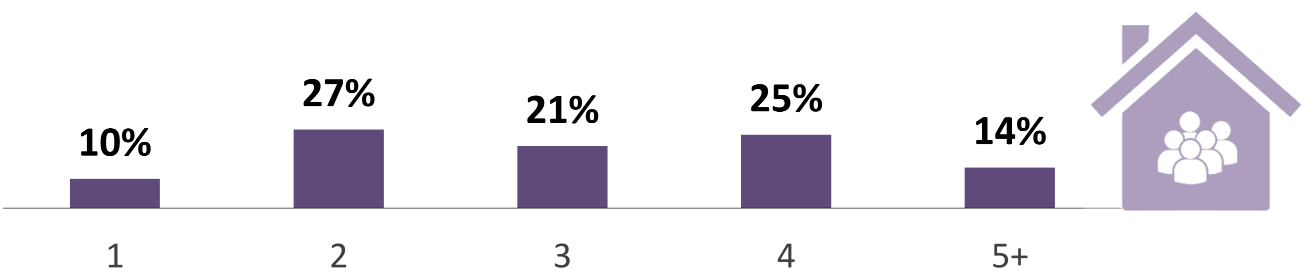
Age-Gender





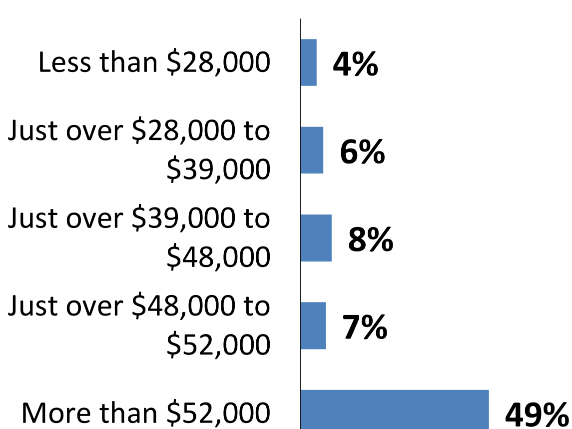
Note: 'Refused' (2%) not shown.

Household Size



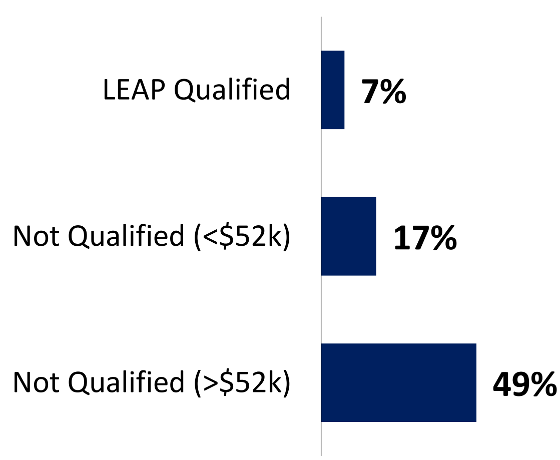
Note: 'Refused' (2%) not shown.

Household Income After Tax



Note: 'Refused' (24%), 'Not sure' (2%) not shown.

LEAP Qualification



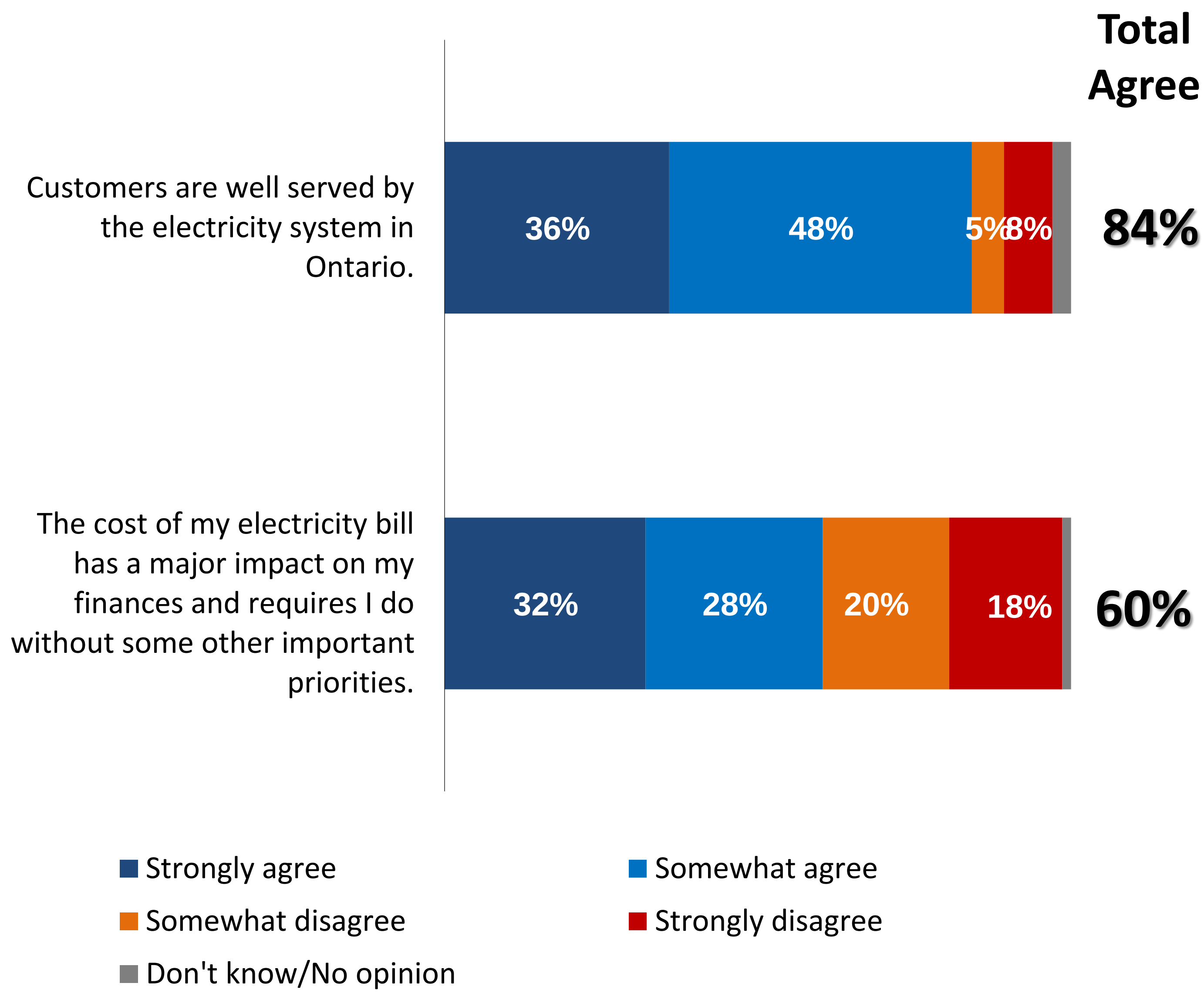
Note: 'Refused' (24%), 'Not sure' (2%) not shown.

Segmentation & Demographics

Residential

Q For each statement please tell me if you would strongly agree, somewhat agree, somewhat disagree or strongly disagree. If you don't know enough to say or don't have an opinion just let me know.

[asked all respondents, n=505]



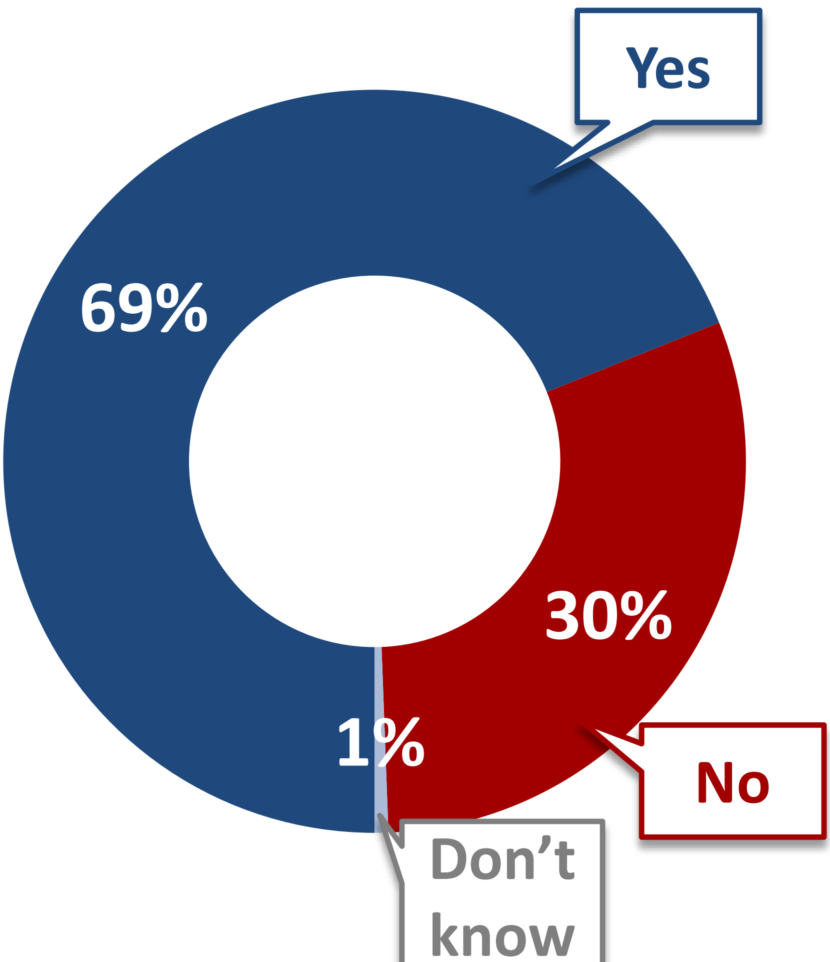
INNOVATIVE RESEARCH GROUP

Residential

Awareness of Merger

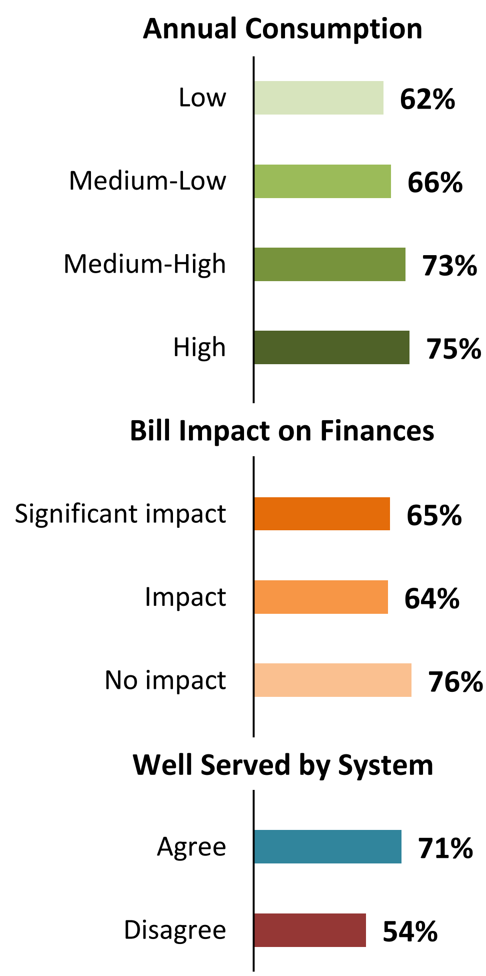
Q You may have recently heard that PowerStream has merged with neighbouring electricity distributors to form a new company called Alectra Utilities.

Had you heard of the Alectra Utilities merger before this survey?
[asked all respondents, n=505]



Segmentation

*Those who say “**Heard of merger**”:*



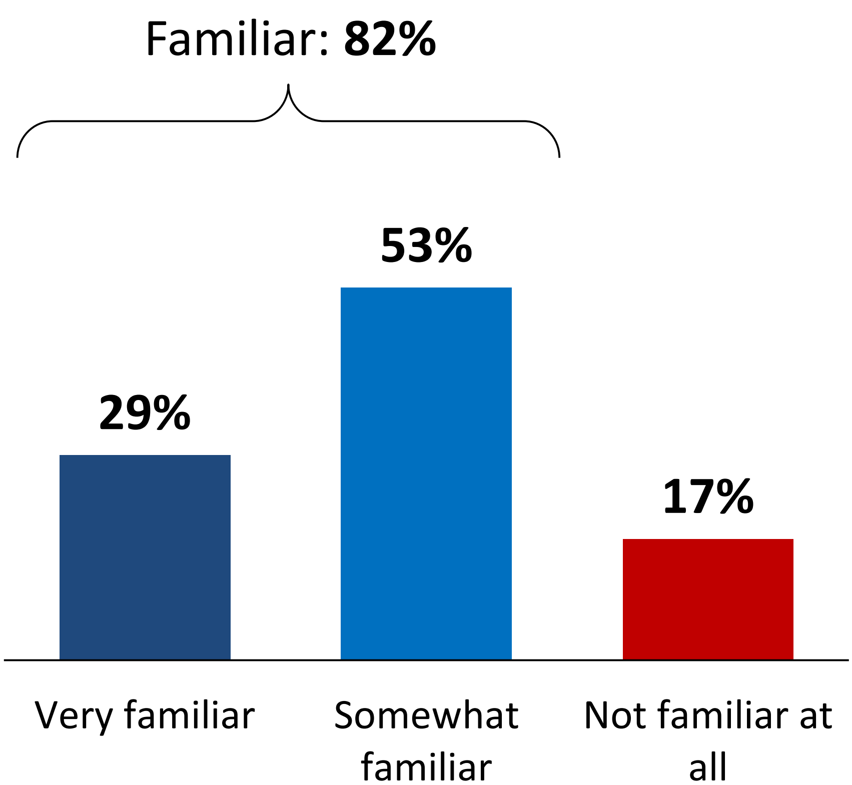
INNOVATIVE RESEARCH GROUP

Familiarity with PowerStream

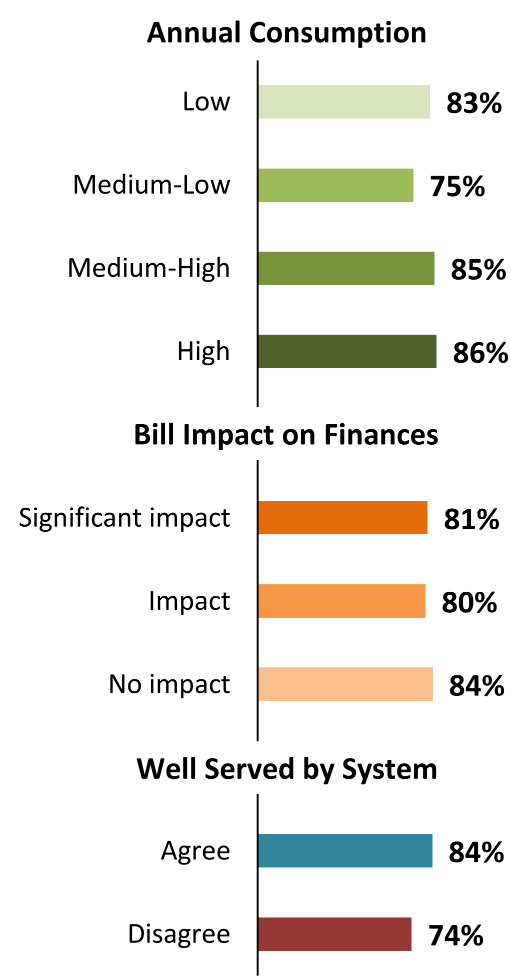
Residential

Q Firstly, let's talk about your experience. As you may know, PowerStream operates and maintains the local electricity distribution system in this area. This is the system that takes the electricity from provincial transmission lines and brings it to your home through a network of wires, poles and other equipment that is owned and operated by PowerStream.

How familiar are you with PowerStream?
[asked all respondents, n=505]



Segmentation
*Those who say "**Familiar**":*



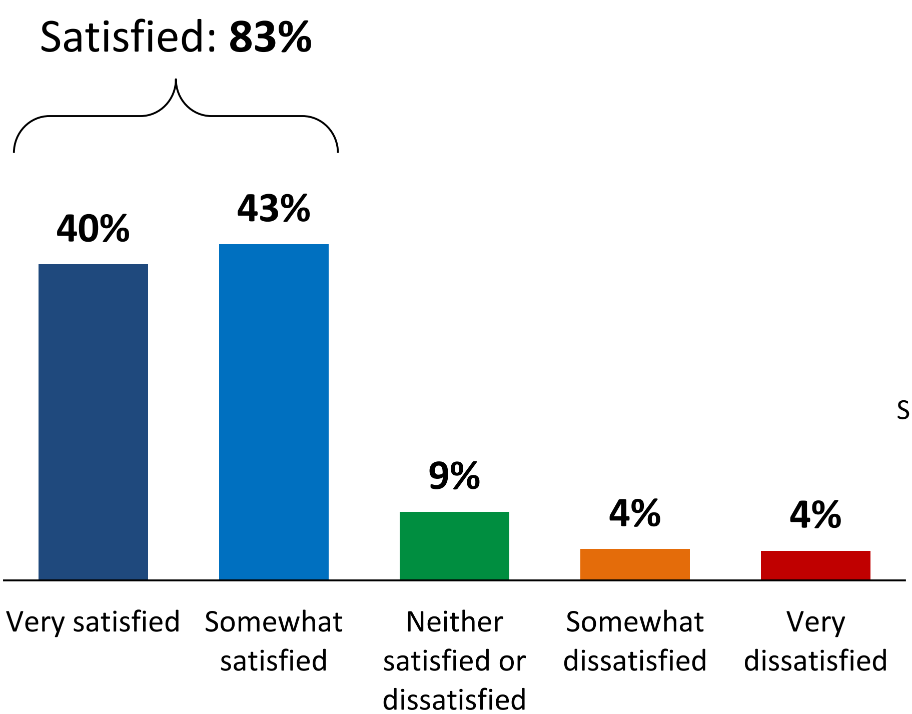
Note: 'Don't know' (1%) not shown.

Satisfaction with Services

Residential

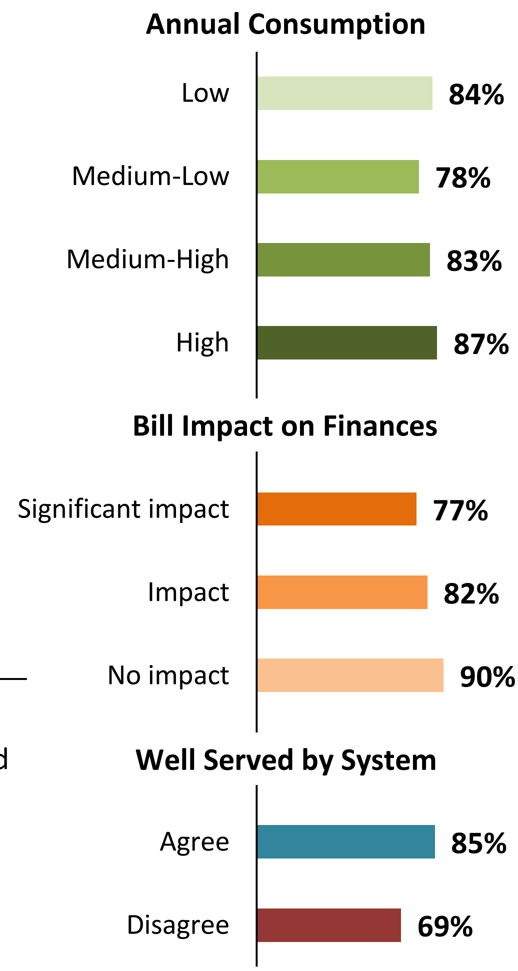
Q In general, how satisfied or dissatisfied are you with the services you receive from PowerStream? Would you say you are very satisfied, somewhat satisfied, somewhat dissatisfied, or very dissatisfied?

[asked all respondents, n=505]



Segmentation

*Those who say "**Satisfied**":*



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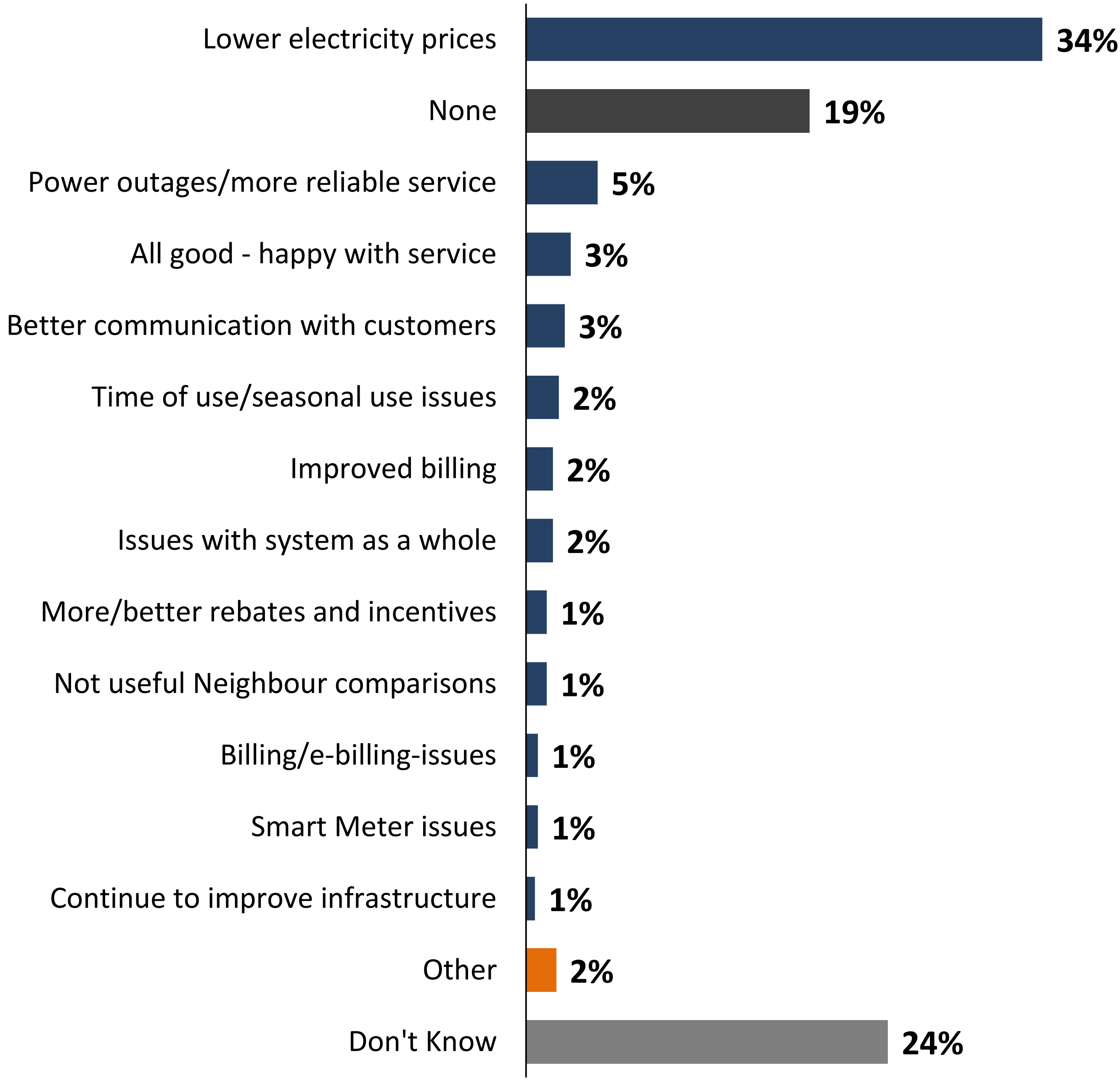
Note: 'Don't know' (1%) not shown.

Suggestions for Improvements

Residential

Q Is there anything in particular PowerStream can do to improve its service to you?
[asked all respondents, n=505]



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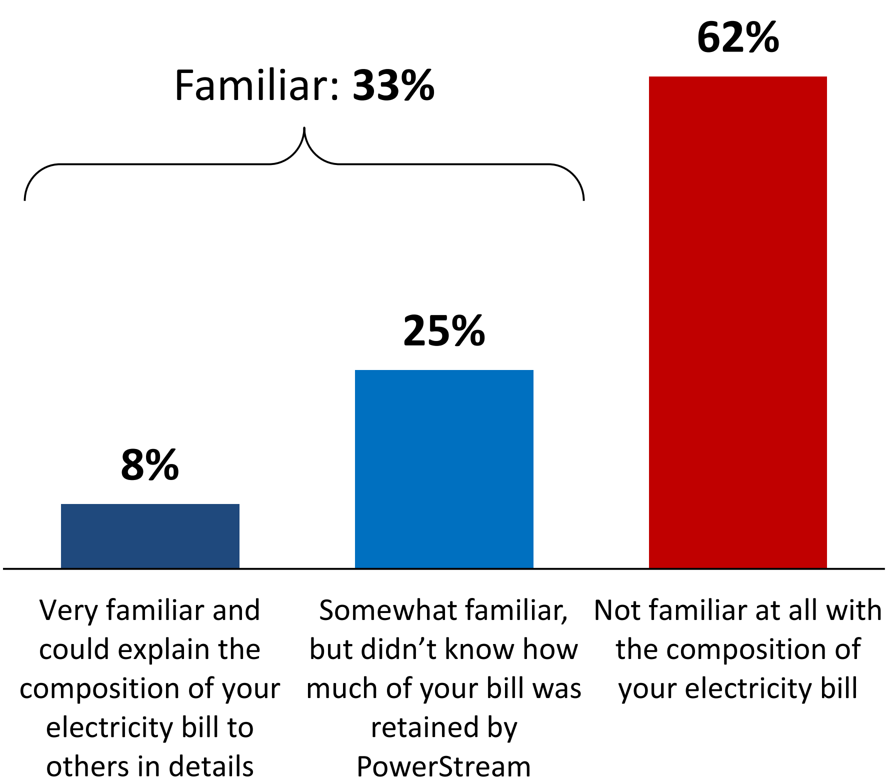
Familiarity with Amount of Electricity Bill Remitted

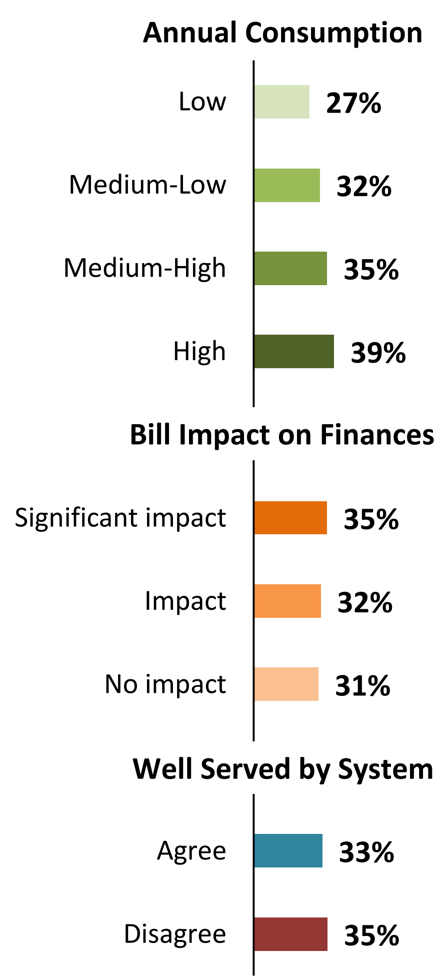
Residential

Q I'd now like to talk with you about your electricity bill … While Powerstream is responsible for collecting payment for the entire electricity bill, they retain about 26% of the typical residential customer's bill. This is about $28.48 on an average $108.81 monthly residential electricity bill. The rest of the bill goes to power generation companies, transmission companies, the provincial government and regulatory agencies.

Before this survey, how familiar were you with the percentage of your electricity bill that is retained by PowerStream?
[asked all respondents, n=505]



Segmentation
*Those who say "**Familiar**":*



INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (5%) not shown.

Customer Priorities

Residential

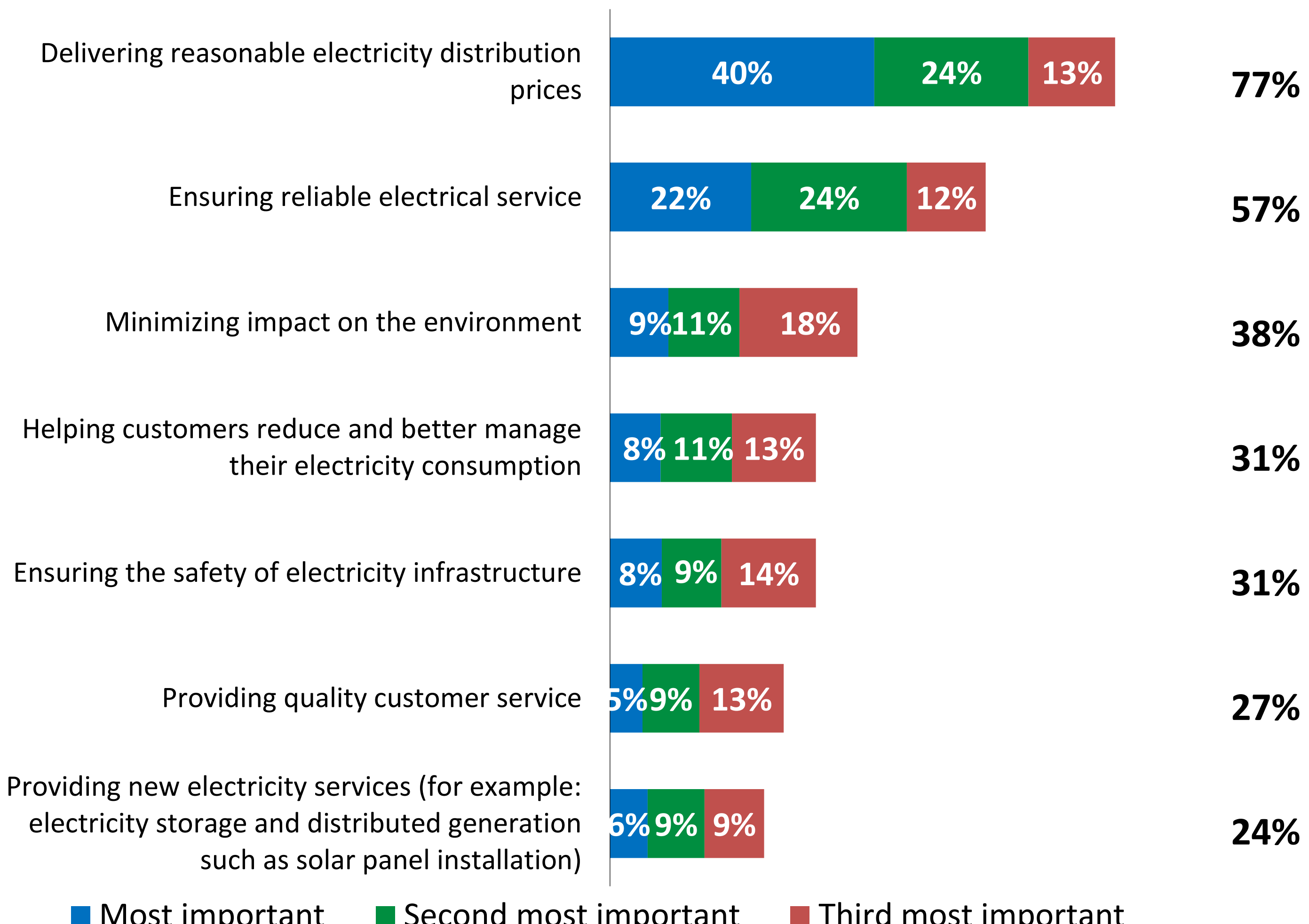
Q Now lets talk about our second topic – outcomes. PowerStream regularly holds discussions with its customers to better understand how it should set spending priorities with the money customers pay for service.

In recent conversations with customers, a number of company goals were identified as key priorities for PowerStream.

Among the following PowerStream priorities, please tell me which one is most important to you.

[asked all respondents, n=505, percentages are calculated based on the full sample]

Top 3 Priority



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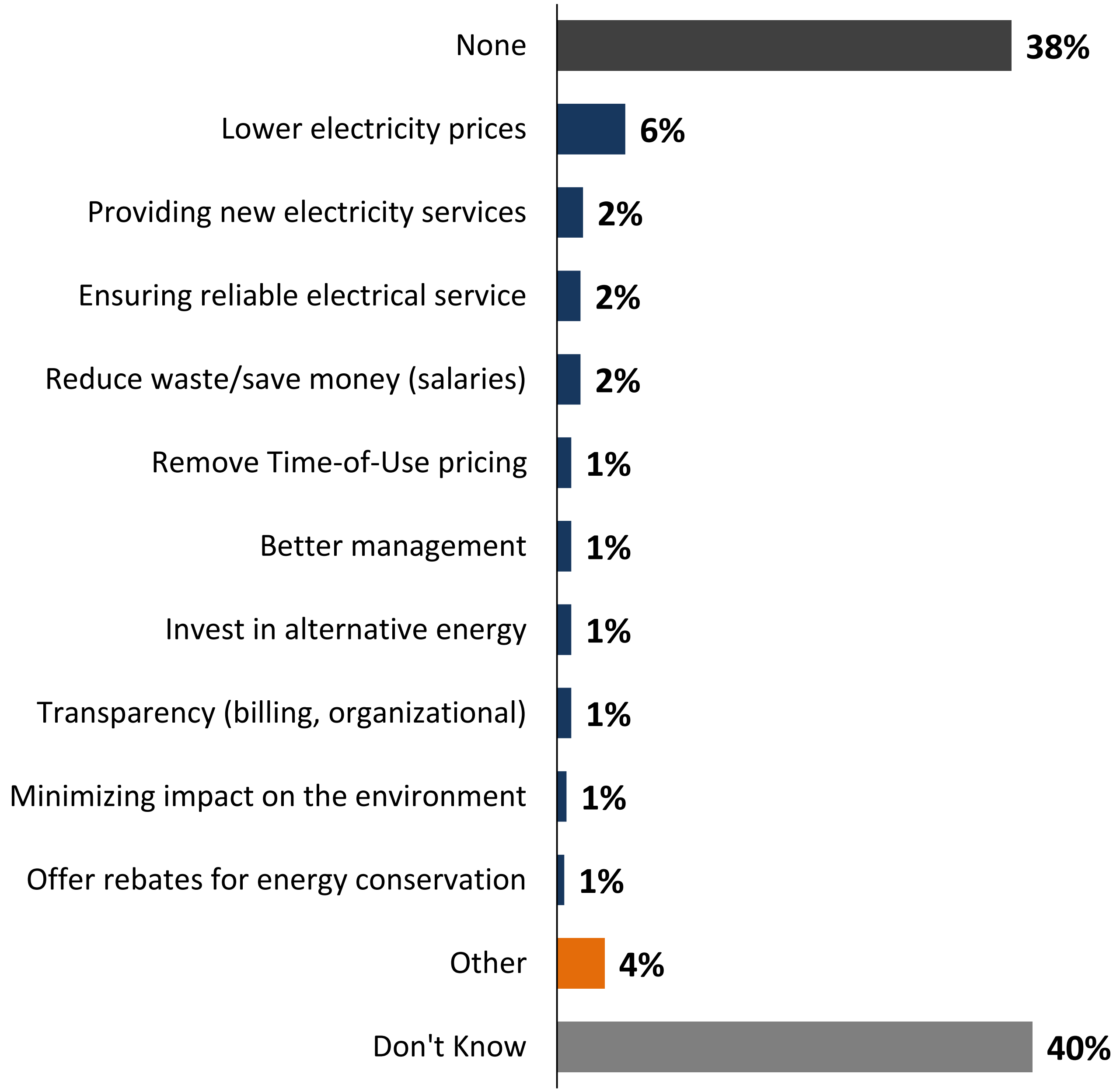
Additional Priorities

Residential

Q Are there any other important priorities that PowerStream should be focusing on that weren't included in the previous list I read to you?
[asked all respondents, n=505]



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System Reliability

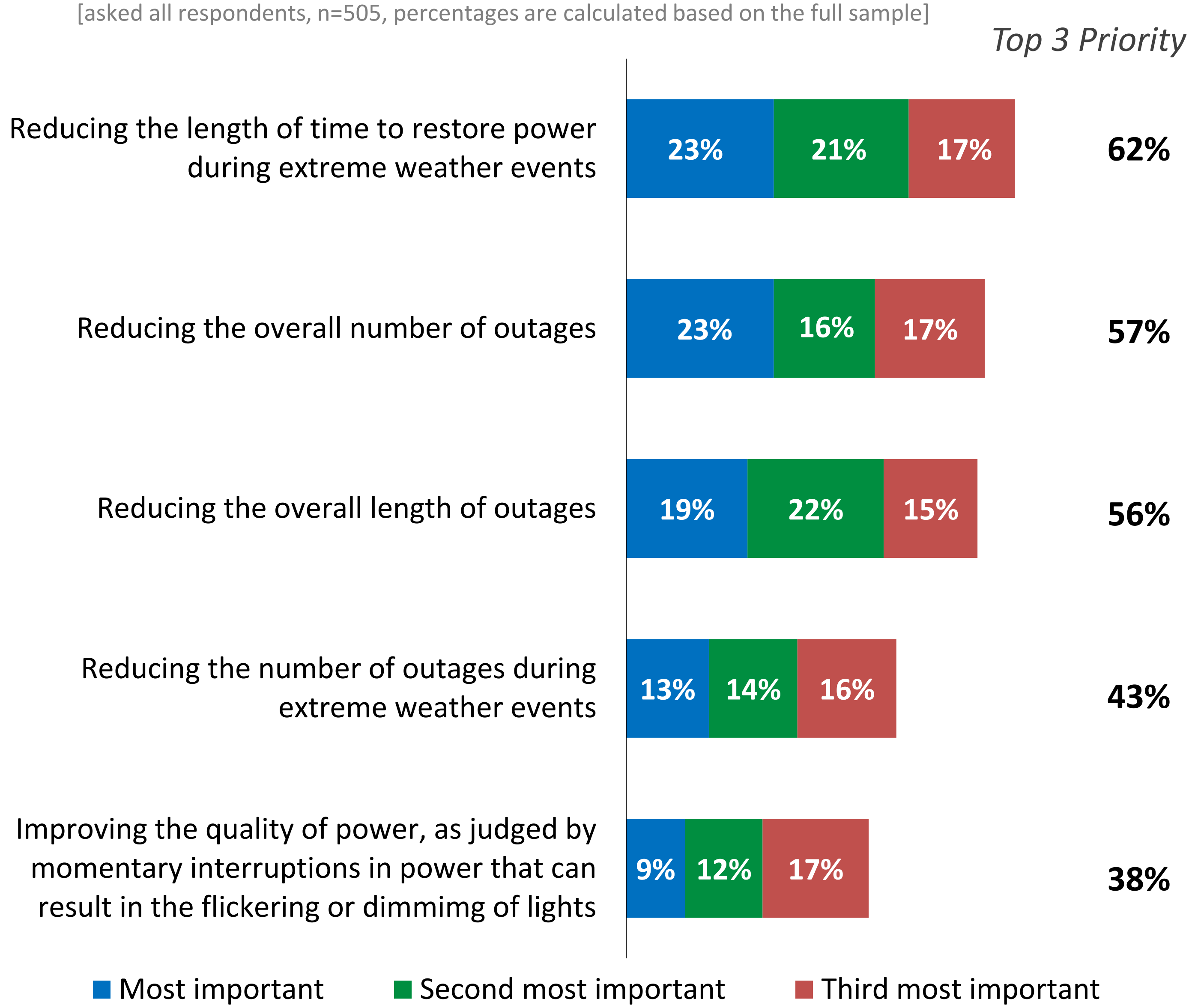
Residential

Q We would like to understand your experience with reliability.

There are different outcomes when customers talk about power reliability.

Among the following reliability outcomes, please tell me which one is most important to you.

[asked all respondents, n=505, percentages are calculated based on the full sample]



Familiarity with how Electricity Rates are Set

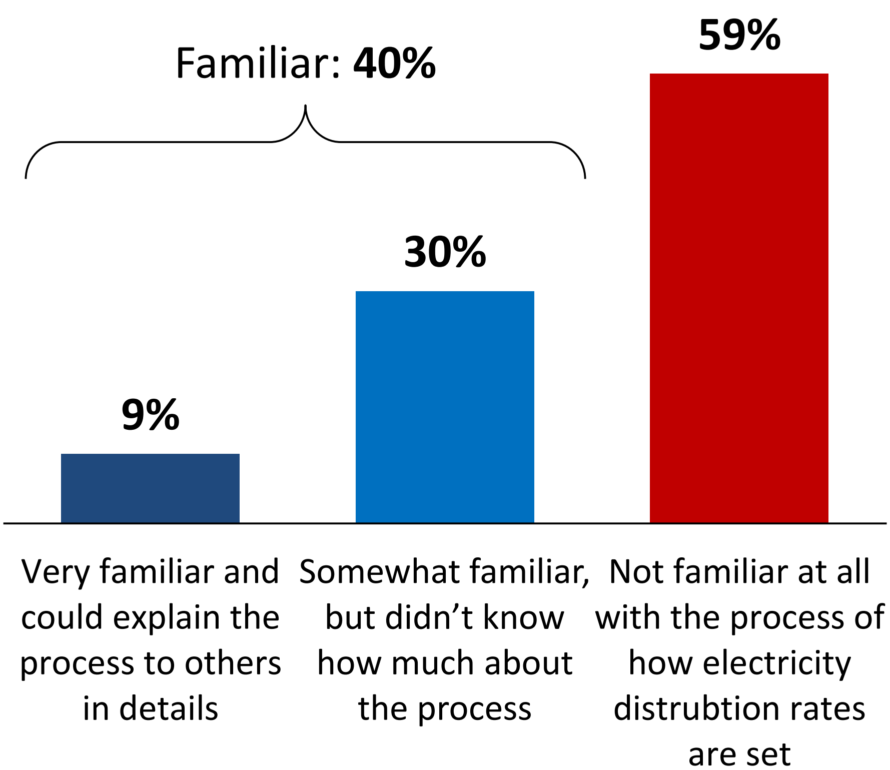
Residential

Q *Now, lets turn to our third topic, investment trade-offs.* The electricity industry in Ontario is regulated by the Ontario Energy Board, otherwise known as the O-E-B. The OEB sets electricity rates in Ontario.

The OEB requires electricity distributors, such as Alectra Utilities, to develop its business plan and distribution system plan, as well as make spending and investment decisions based on customer feedback.

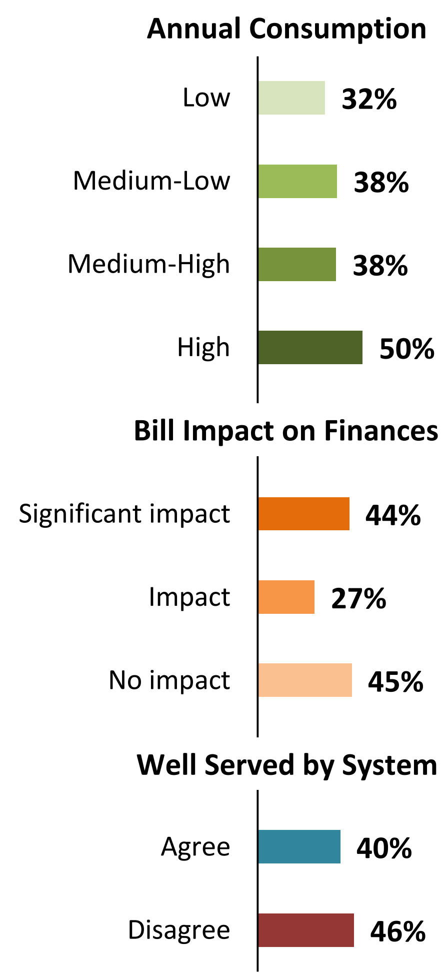
Electricity distributors are funded by the distribution rates paid by their customers. Periodically, distributors are required to file rate applications with the OEB to justify the amount of funding they need to safely and reliably distribute electricity to their customers.

Before this survey, how familiar were you with how electricity distribution rates are set in Ontario?
[asked all respondents, n=505]



Segmentation

*Those who say "**Familiar**":*



INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (1%) not shown.

Investment Trade-Off Preamble

Residential

“Alectra Utilities is now starting to create its first overall investment plan as a merged utility. The OEB divides electricity distributor investments into four categories. One category called system access includes investments that are mandatory under the distributor’s licence to operate. These include reasonable costs to connect new customers and moving existing infrastructure to accommodate civic improvements.

The spending in the other three categories involves finding the right balance between the impact on your bill and the service you receive. We would now like ask a few questions about your preferences when it comes to finding the right balance between costs and other outcomes.

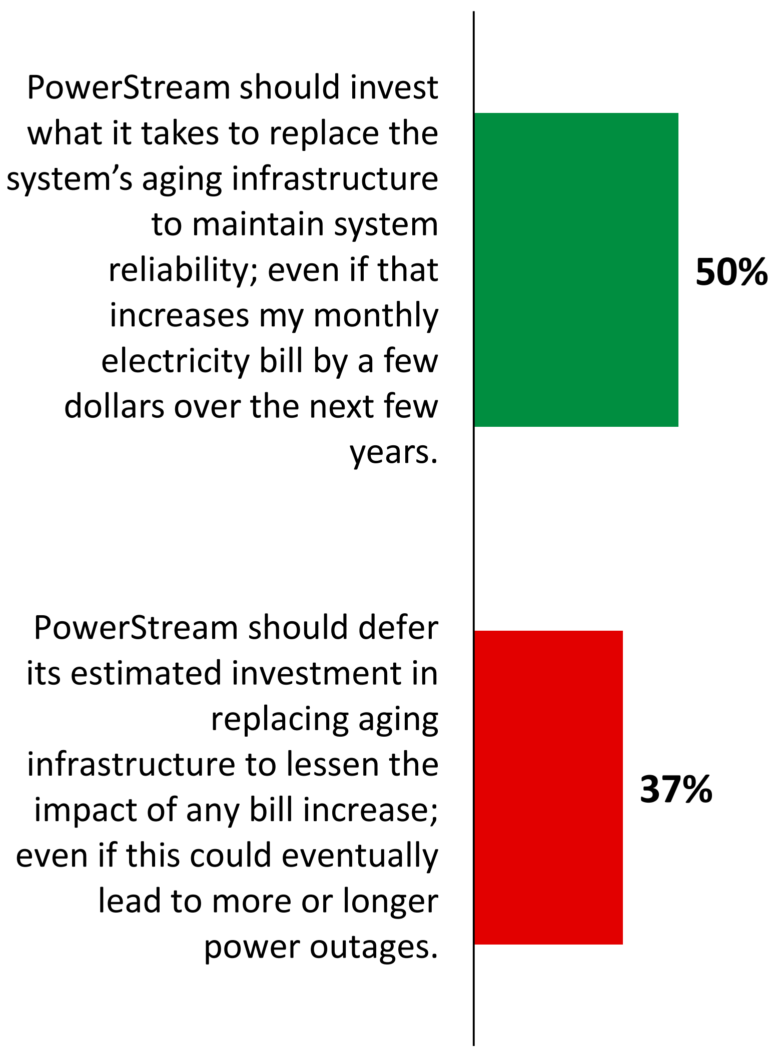
I want to start by asking you about system renewal, that is the projects that replace aging electrical infrastructure.”

Investments in Aging Infrastructure

Residential

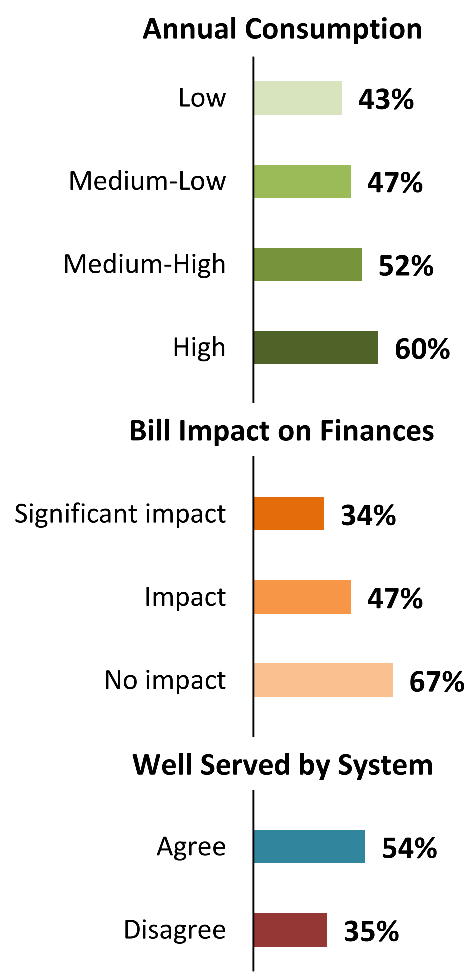
Q While PowerStream works hard to prolong the life of the assets that make up its distribution system, eventually these assets reach the end of their useful life and require replacement. Currently the average customer experiences **1.1 outages a year for an average of 57 minutes**. When adjusted to remove outages due to loss of supply from the transmission system and major storms, 42% of unscheduled outages are as a result of equipment failure in the PowerStream rate zone. However, it is not possible to predict exactly when a specific piece of aging equipment will fail. PowerStream must decide the pace at which it replaces this aging equipment.

Which of the following statements best represents your point of view?
[asked all respondents, n=505]



Segmentation ▶▶

*Those who say "**Invest what it takes**":*



Note: 'Don't know' (8%), 'Refused' (5%) not shown.

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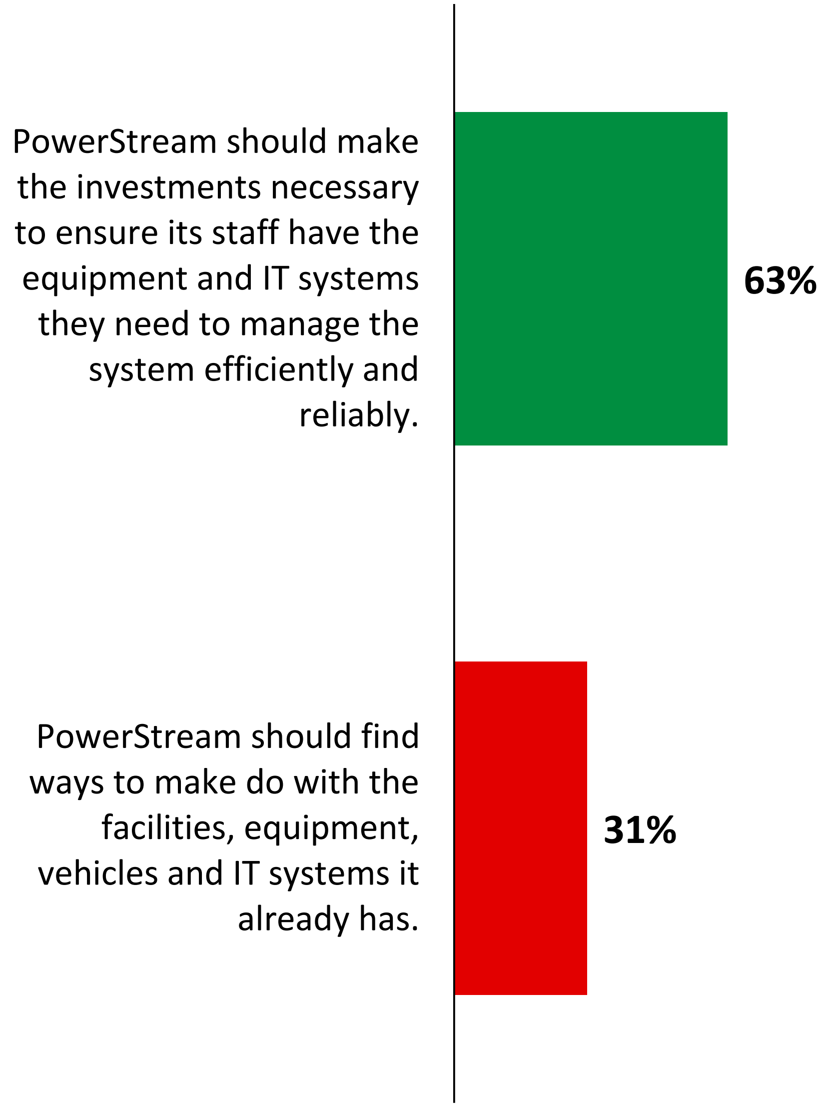
General Plant Investments

Residential

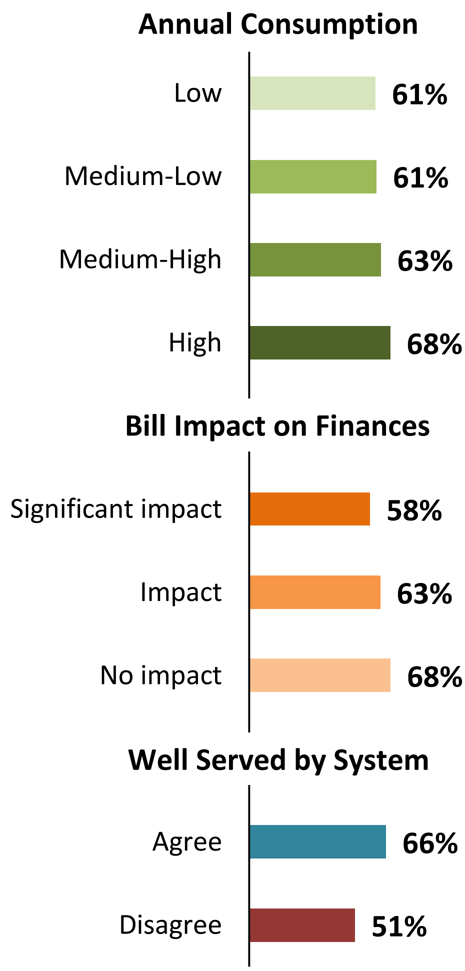
Q As a company, PowerStream needs facilities to house staff and equipment, vehicles and tools to service electrical infrastructure, and IT systems to manage the distribution system and customer information..

Which of the following statements best represents your point of view?
[asked all respondents, n=505]



Segmentation

*Those who say "**make necessary investments**":*



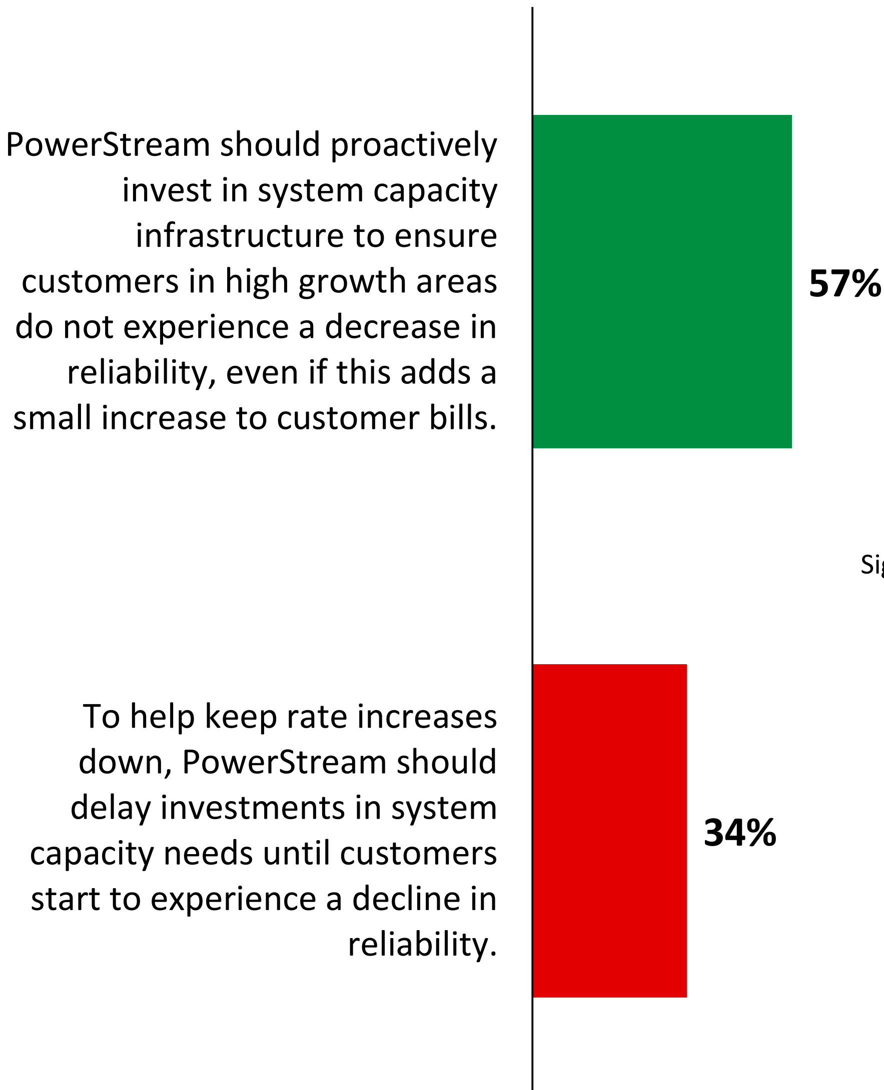
Note: 'Don't know' (5%), 'Refused' (1%) not shown.

System Service Investments

Residential

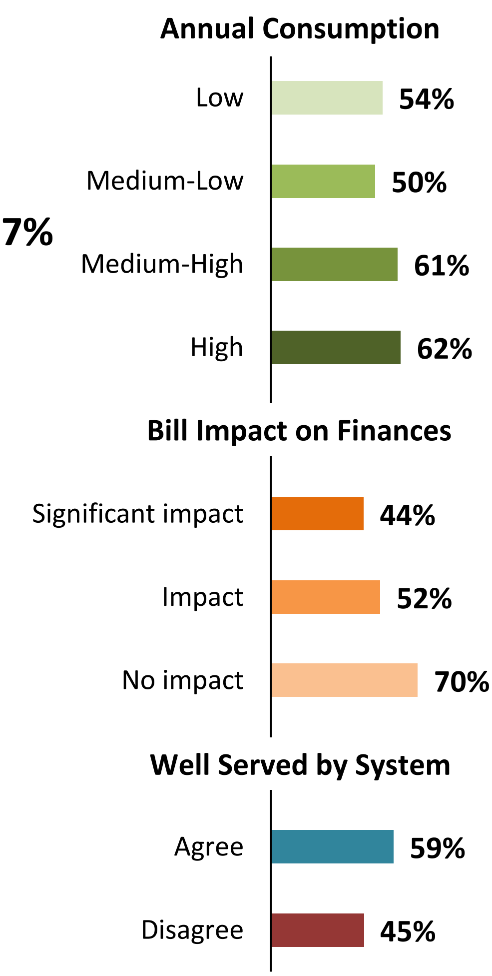
Q With growth in various parts of the PowerStream service area comes greater demand for electricity. This increased demand for electricity puts increased pressure on the existing electrical infrastructure. Eventually, further infrastructure investments will be required to support increased demand for electricity.

With this in mind, which of the following statements best represents your point of view?
[asked all respondents, n=505]



Segmentation

*Those who say "**proactively invest in system capacity**":*



INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (6%), 'Refused' (4%) not shown.

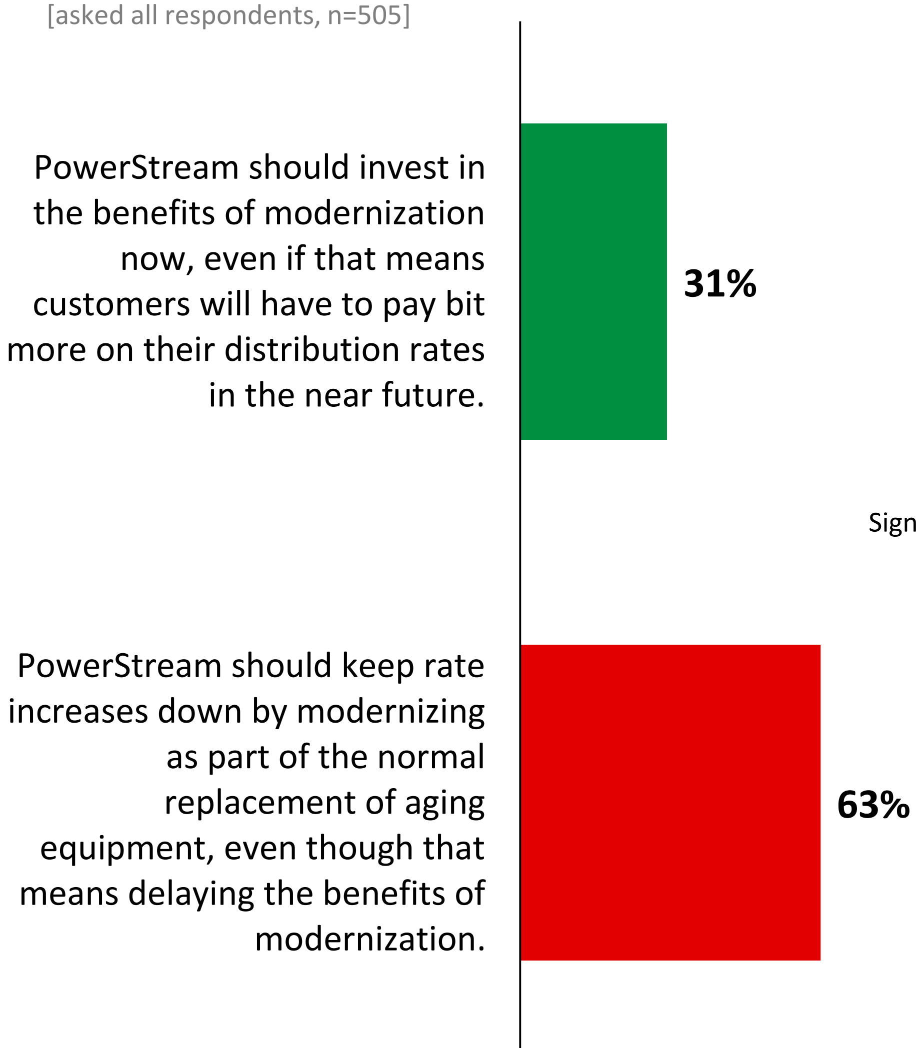
Modernizing the Distribution System

Residential

Q There are new technologies that PowerStream can implement such as microgrids, electricity storage, and automatic switches that can give customers more choices, improve reliability or reduce the impact on the environment.

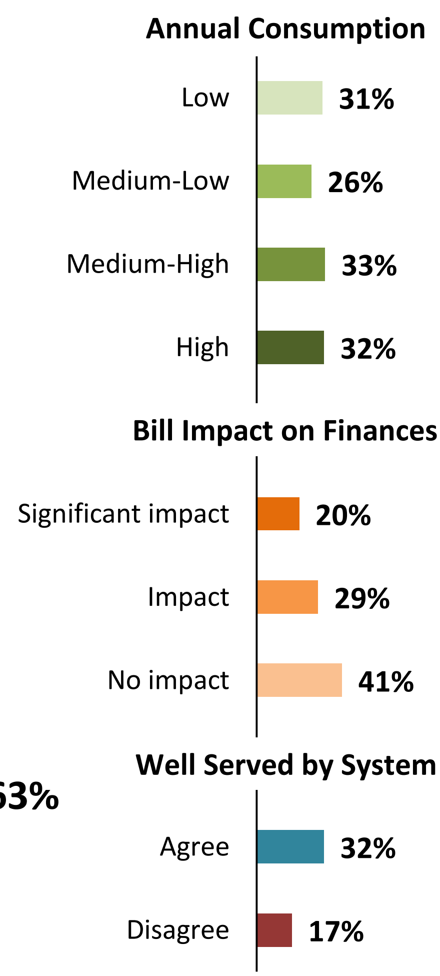
These investments would create a better grid, but are not required to maintain the reliability that you experience today.

Which of the following statements best represent your point of view?
[asked all respondents, n=505]



Segmentation

*Those who say "**invest in modernization now**":*



Note: 'Don't know' (5%), 'Refused' (2%) not shown.

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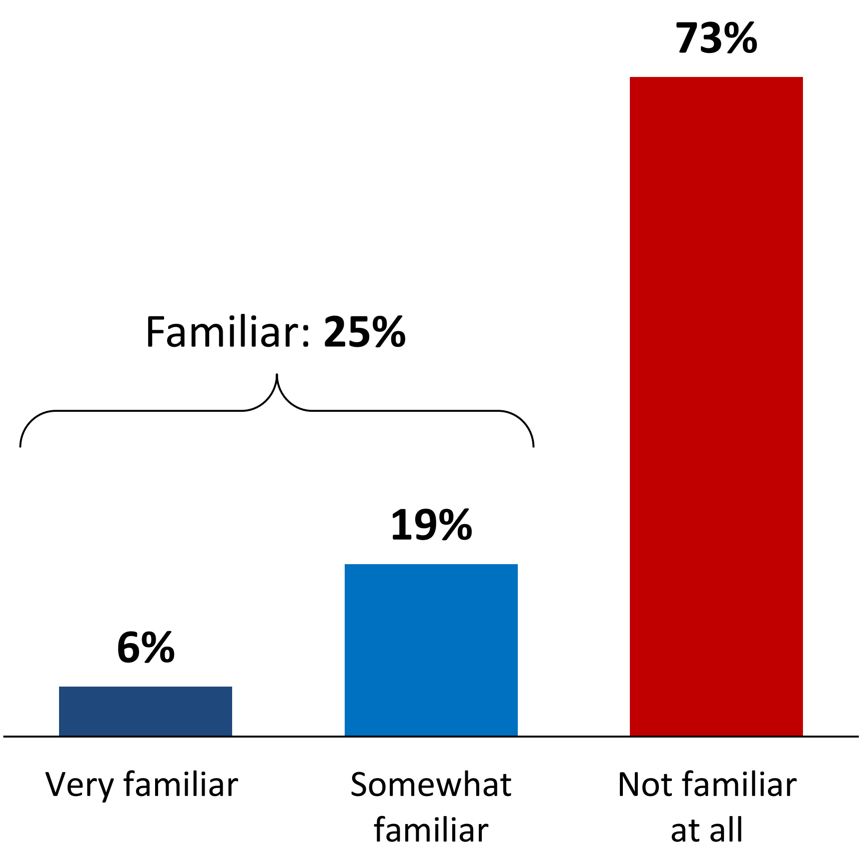
Familiarity with OEB "Cost Saving" Requirements

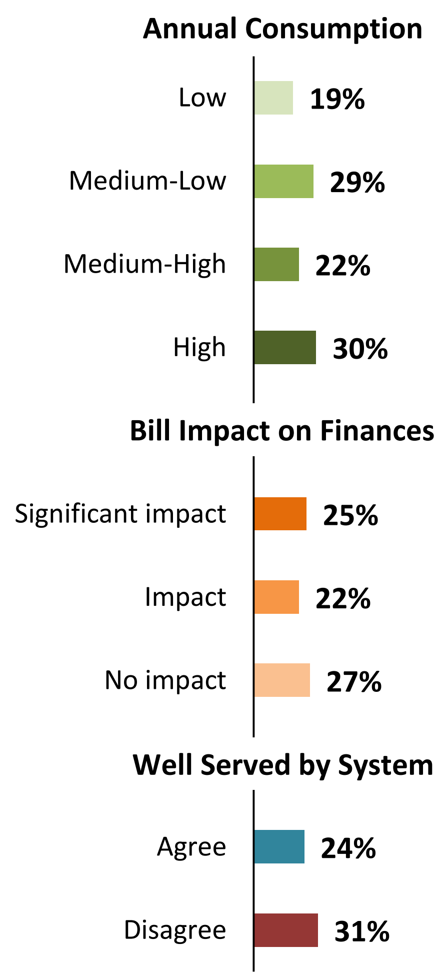
Residential

Q As we mentioned earlier, the rates you pay to PowerStream are set by the OEB through a public process. PowerStream's current rates were approved in a 2017 application and will be in place until 2027. Each year PowerStream is permitted to increase rates to reflect inflation minus savings targets established by the OEB which requires PowerStream to keep cost increases below inflation.

Before this survey, how familiar were you with the OEB requirement for PowerStream to find savings every year?
[asked all respondents, n=505]



Segmentation ▸▸
*Those who say "**Familiar**":*



Note: 'Don't know' (2%) not shown.

ICM Rate Impact Preamble

Residential

"Now let's turn to our final topic – possible new projects. As part of the OEB policies, there is an option for PowerStream to apply for additional rate increases for discrete projects projects that are prudent, needed and not supported by existing rates. Looking ahead to 2019, PowerStream has identified three projects that need more investment than the existing budget allows.

One project involves relocating six major feeder lines and the accompanying metering equipment to accommodate the rebuild of a major Transmission substation. PowerStream is using the lowest cost option to complete this project.

The second project involves relocating poles and wires as part of the York Region Rapid Transit VIVA bus projects. There are no major design choices in this project."

INNOVATIVE RESEARCH GROUP

Bathurst Street Road Widening Preamble

Residential

"The third project involves relocating both overhead and underground wires and supporting equipment as part of the Bathurst Street road widening from Highway 7 to Teston road.

Powerstream has two options for this project. It can [ROTATE]:

- *move the current mix of overhead and underground wires and equipment at a cost of $5.5 million dollars, OR*
- *replace the overhead system with an underground system for better protection against weather and collisions from vehicles at a cost of between $25 and $35 million dollars."*

Bathurst Street Road Widening

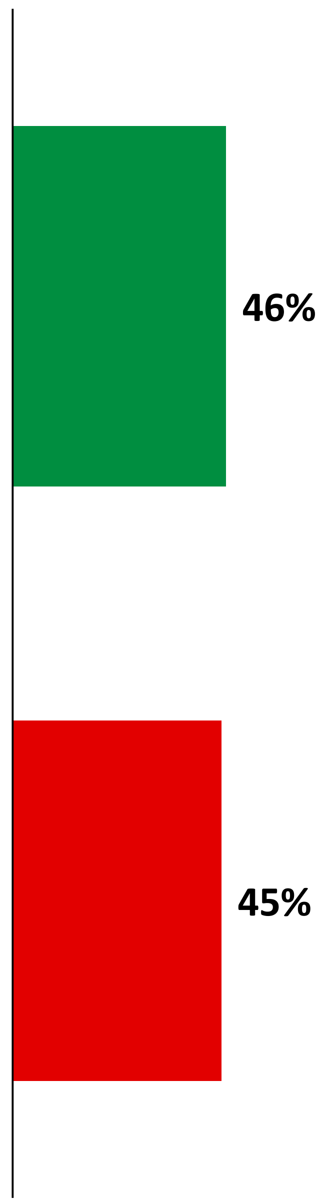
Residential

Q Given earlier customer feedback emphasizing the need to keep rate increases down, PowerStream is currently planning on taking the first option - to move the current mix of overhead and underground wires and equipment

Which option do you prefer?
[asked all respondents, n=505]

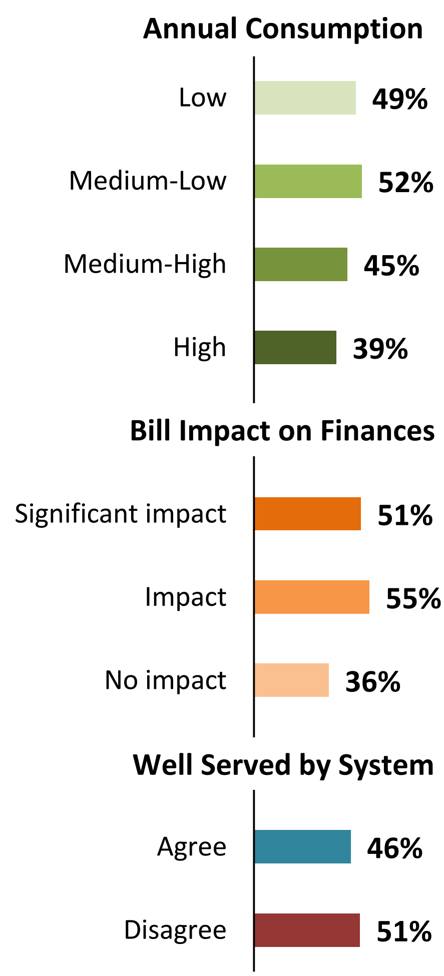
Move the current mix of overhead and underground wires and equipment at a cost of $5.5 million dollars, resulting in a monthly increase of 6 cents for the average residential customer.

Replace the overhead system with an underground system at a cost of between $25 and $35 million dollars, resulting in a monthly increase of between 25 cents and 35 cents for the average residential customer



Segmentation

*Those who say "**Move current mix of equipment**":*



INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (5%), 'Refused' (3%) not shown.

Opinion of Proposed ICM Rate Impact

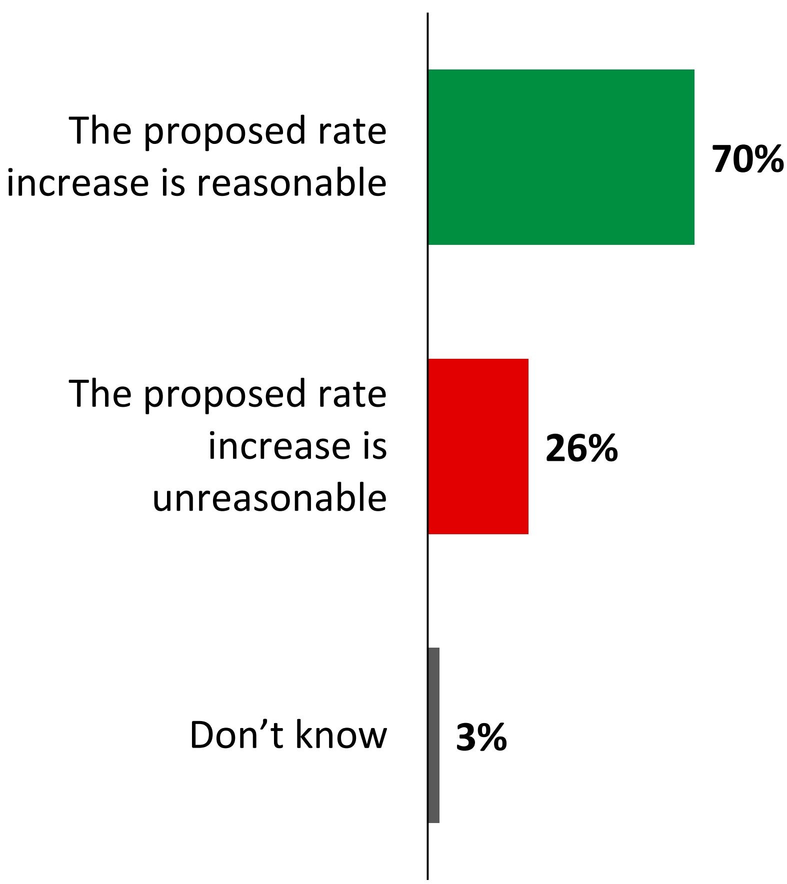
Residential

Q As I mentioned earlier, each year PowerStream is permitted to increase rates to reflect inflation minus a stretch factor which requires PowerStream to find savings to keep cost increases below inflation. In order to maintain the existing plan to replace aging infrastructure and complete the mandatory projects previously discussed, PowerStream would need to add a 21 cent charge to the typical residential customers monthly electricity bill, from 2019 to 2026.

That would result in an annual increase of $2.52 each year over the course of the next eight years – *totalling $20.16 over that period.*

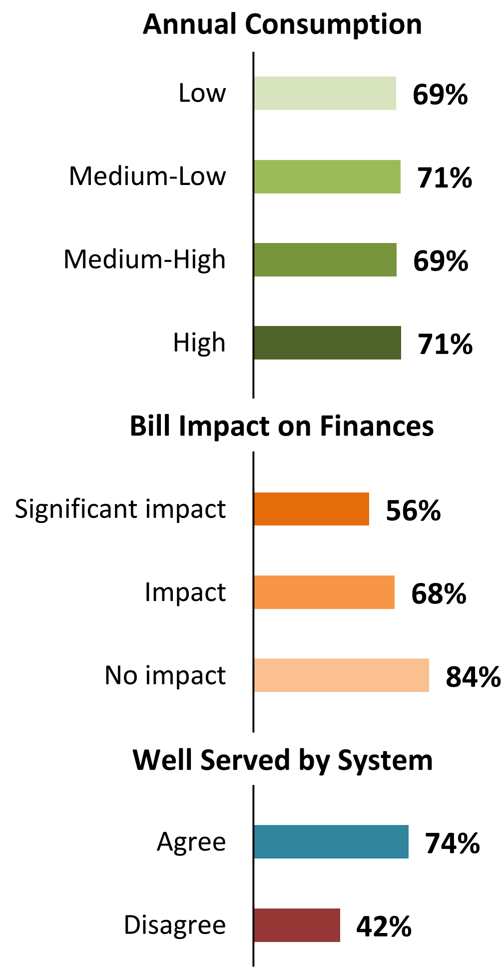
What is your opinion on this proposed rate increase in 2019?

[asked all respondents, n=505]



Segmentation ▶▶

*Those who say "**Rate increase is reasonable**":*



INNOVATIVE RESEARCH GROUP

Note: 'Refused' (1%) not shown.

Opinion of Proposed ICM Rate Impact

Residential

Q What is your opinion on this proposed rate increase in 2019?
[asked all respondents, n=505]

Bill Impact on Finances

Proposed 2019 Rate Increase	*The cost of my electricity bill has a major impact on my finances and requires I do without some other important priorities.*			*Total*
	Sig. Impact [n=162]	**Impact** [n=143]	**No Impact** [n=193]	
The proposed rate increase is reasonable	56%	68%	84%	**70%**
The proposed rate increase is unreasonable	41%	27%	12%	**26%**

Low-income Energy Assistance Program (LEAP) Qualification

Proposed 2019 Rate Increase	*LEAP Qualification*			*Total*
	LEAP Qualified [n=37]	**Not Qualified (<$52k)** [n=88]	**Not Qualified (>$52k)** [n=248]	
The proposed rate increase is reasonable	68%	60%	78%	**70%**
The proposed rate increase is unreasonable	30%	34%	20%	**26%**

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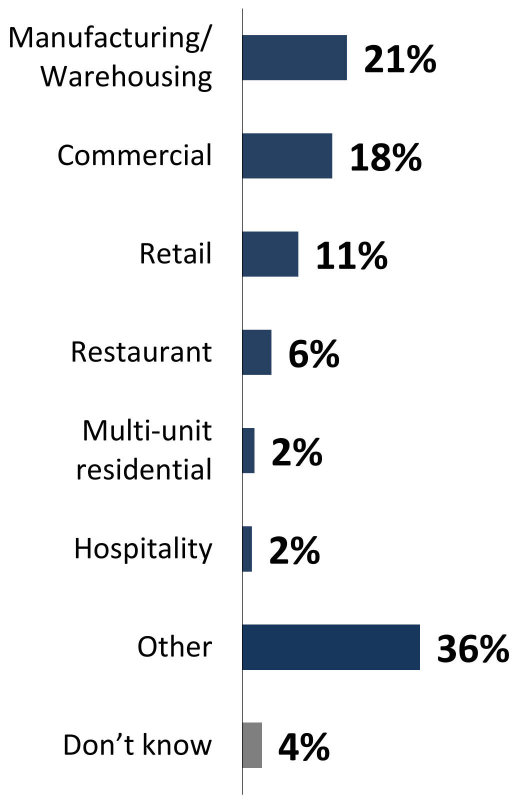
Small Business Rate Class

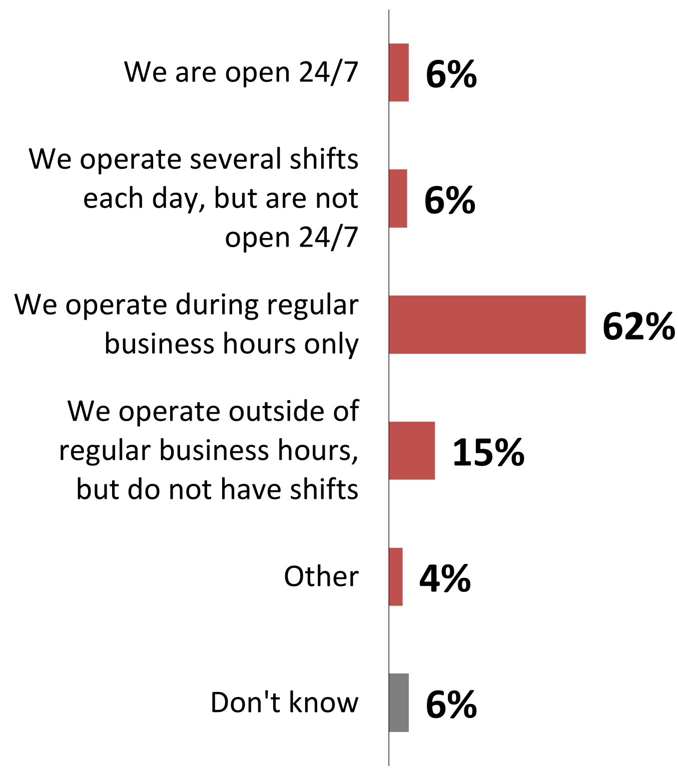
Segmentation & Firmographics

Small Business

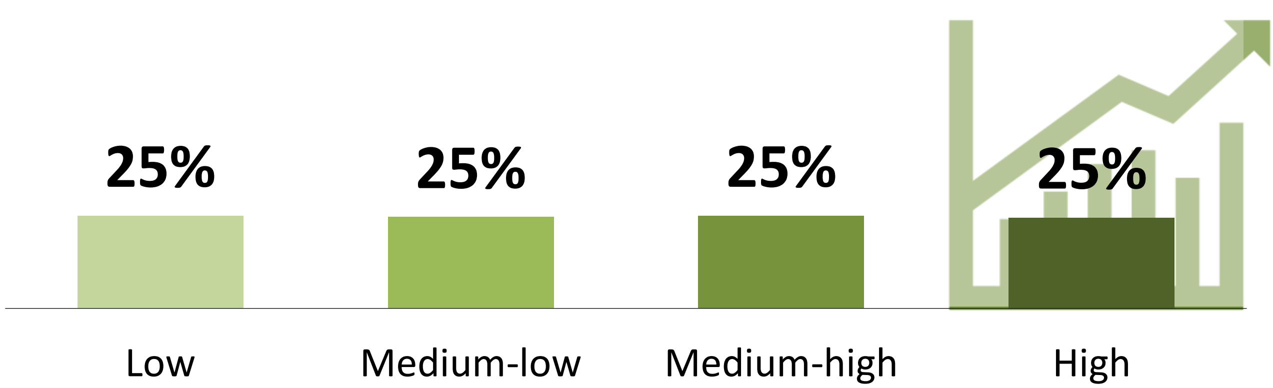
Sector



Hours of Operation



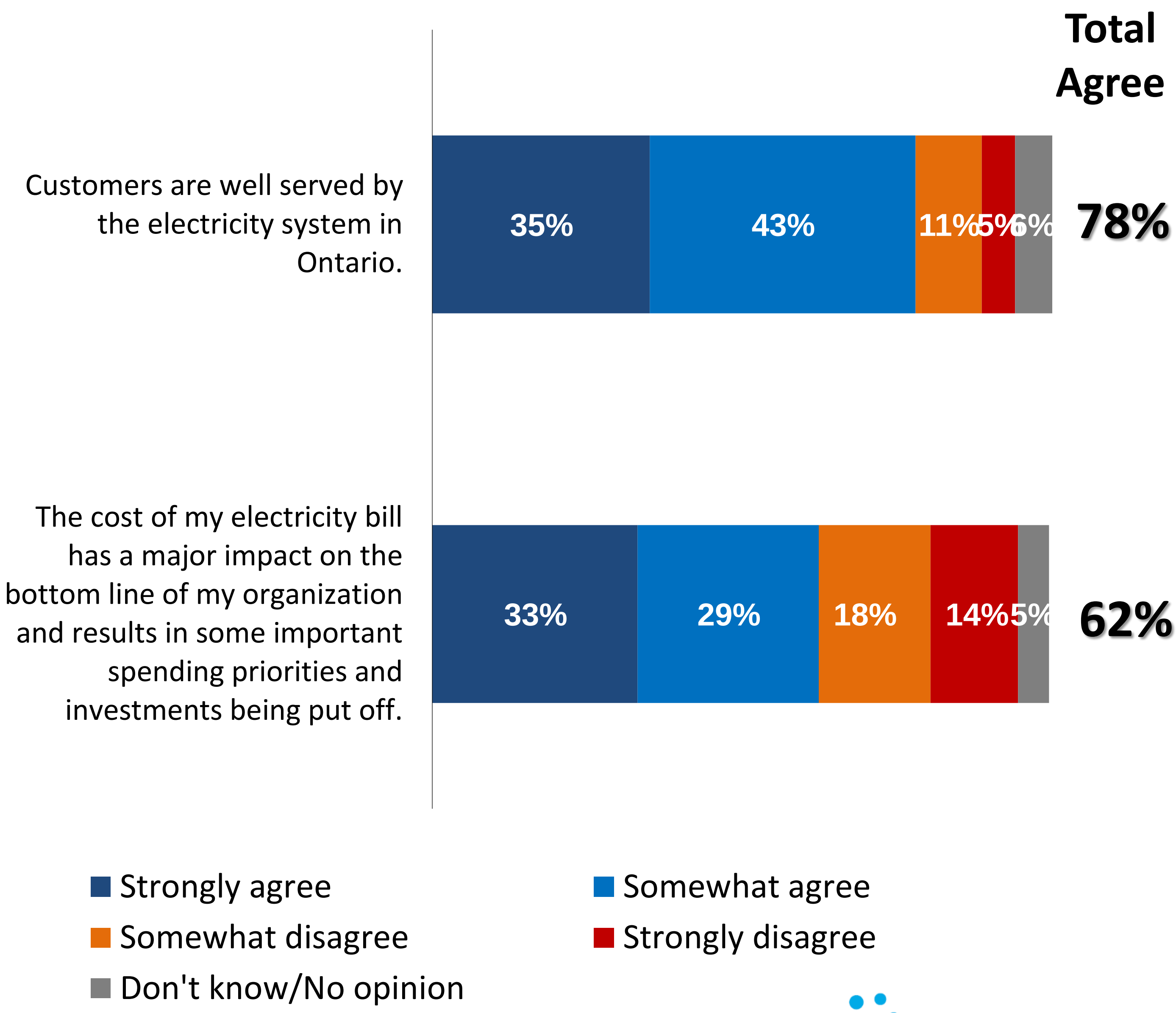
Annual Consumption



Segmentation & Firmographics

Small Business

Q For each statement please tell me if you would strongly agree, somewhat agree, somewhat disagree or strongly disagree. If you don't know enough to say or don't have an opinion just let me know.
[asked all respondents, n=205]



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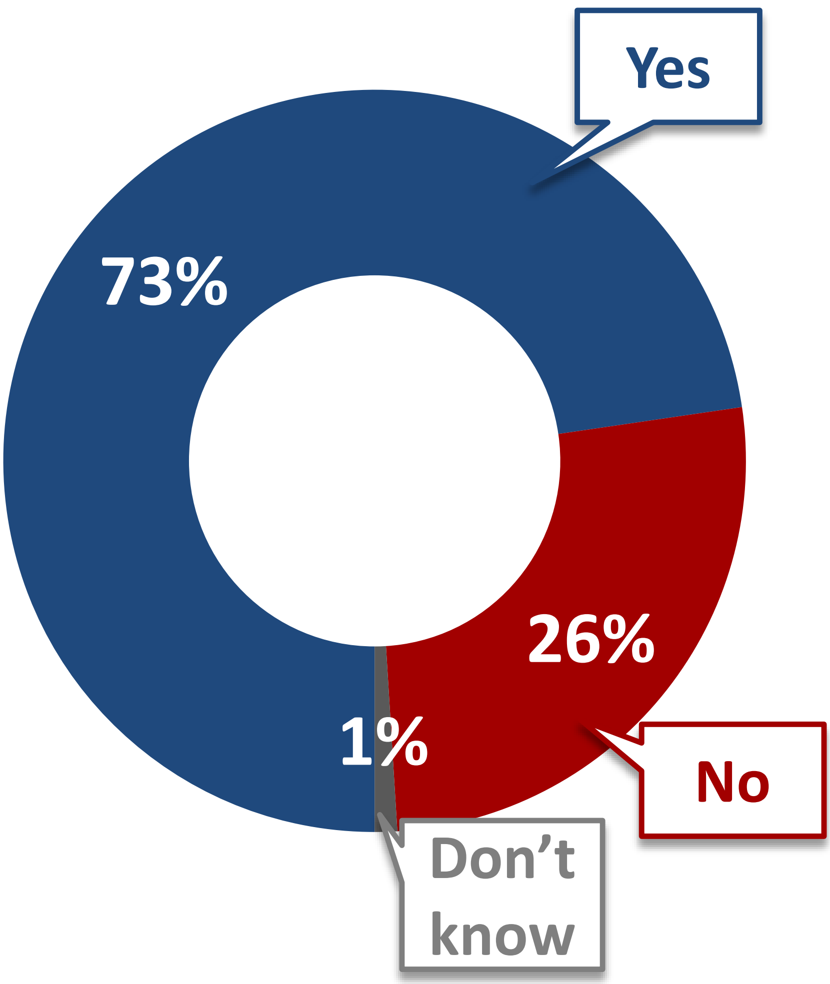
Awareness of Merger

Small Business

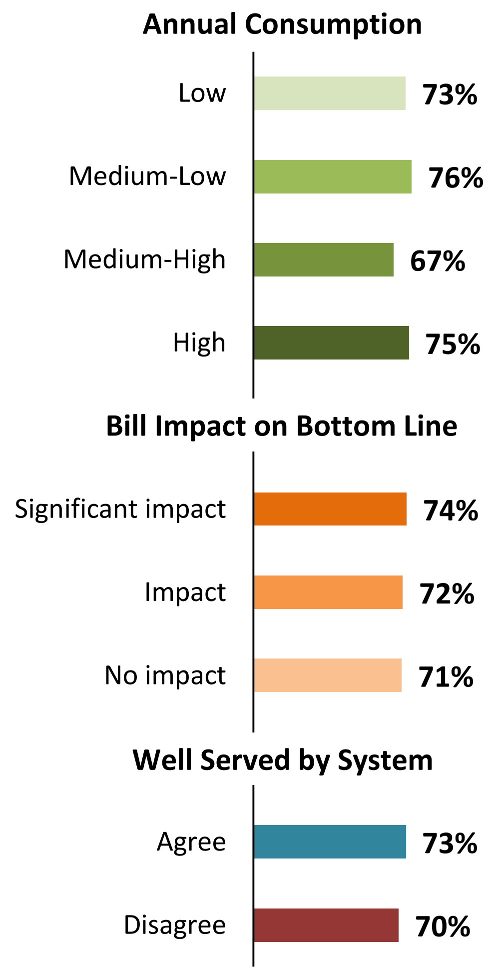
Q You may have recently heard that PowerStream has merged with neighbouring electricity distributors to form a new company called Alectra Utilities.

Had you heard of the Alectra Utilities merger before this survey?
[asked all respondents, n=205]



Segmentation

*Those who say "**Heard of merger**":*



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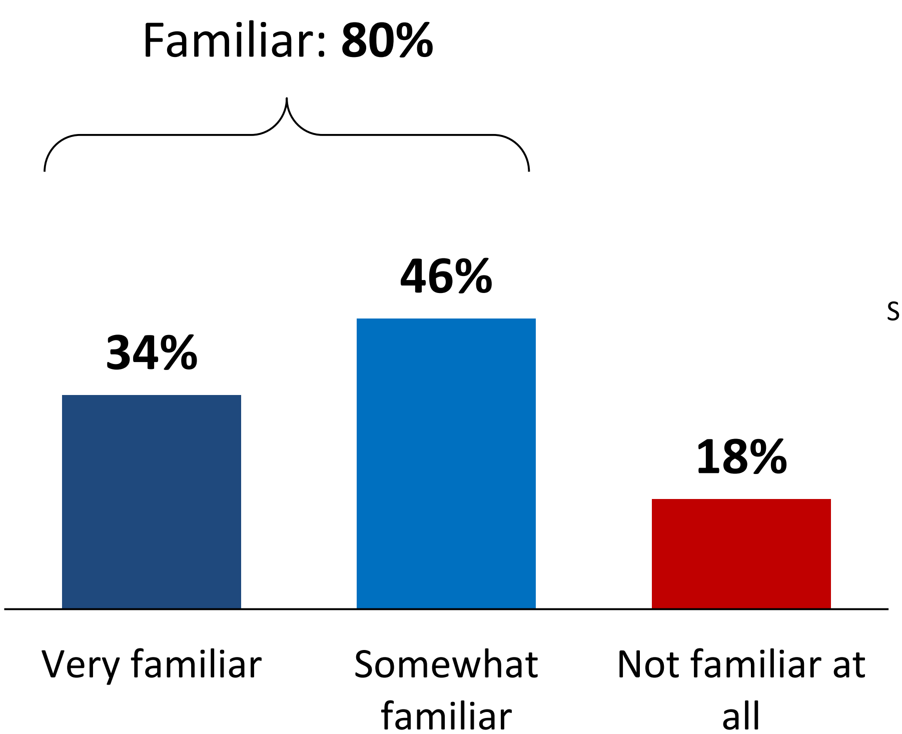
Familiarity with PowerStream

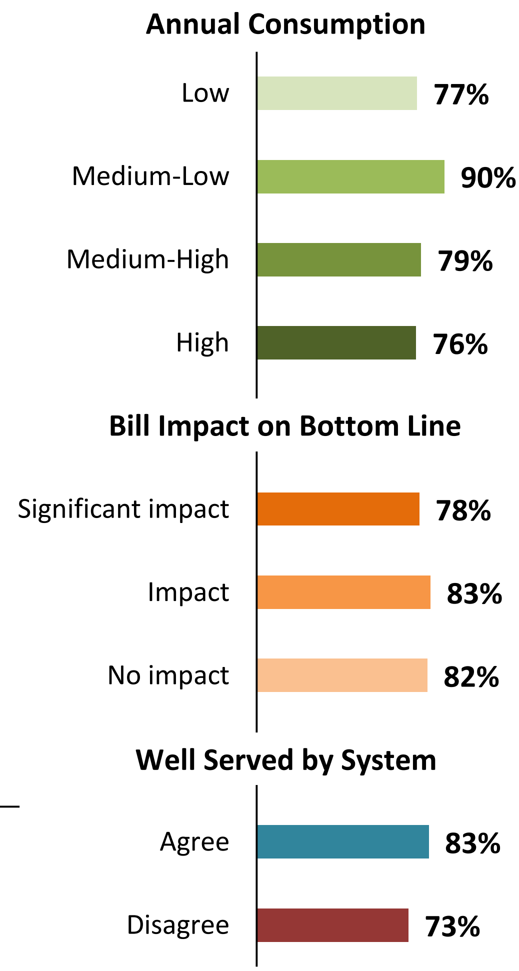
Small Business

Q First, let's talk about your experience. As you may know, PowerStream operates and maintains the local electricity distribution system in this area. This is the system that takes the electricity from provincial transmission lines and brings it to your business through a network of wires, poles and other equipment that is owned and operated by PowerStream.

How familiar are you with PowerStream?
[asked all respondents, n=205]



Segmentation ▶▶
*Those who say "**Familiar**":*



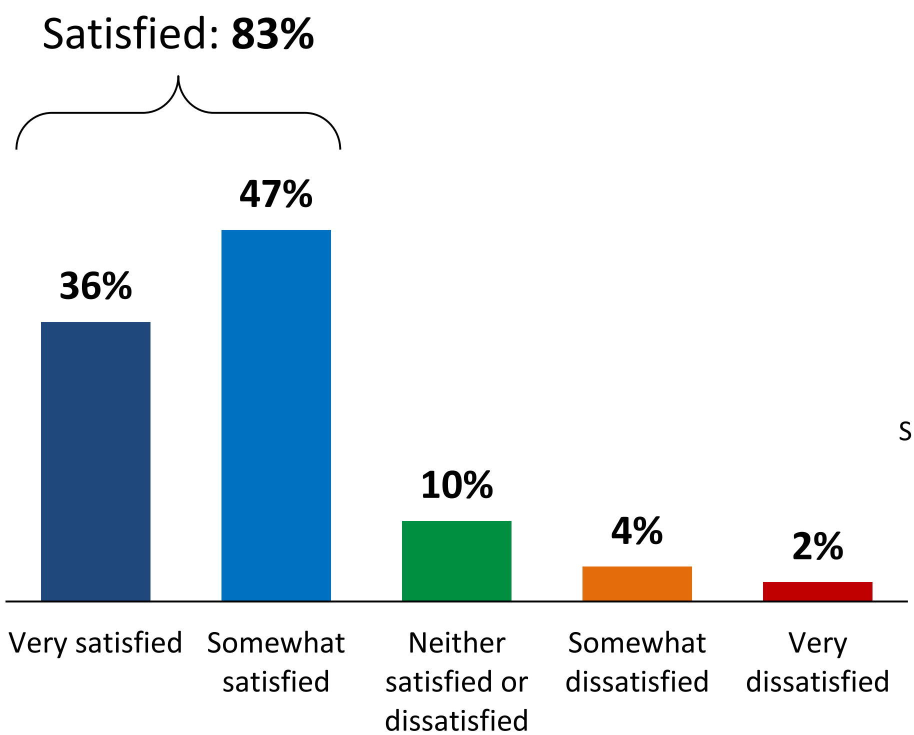
INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (2%) not shown.

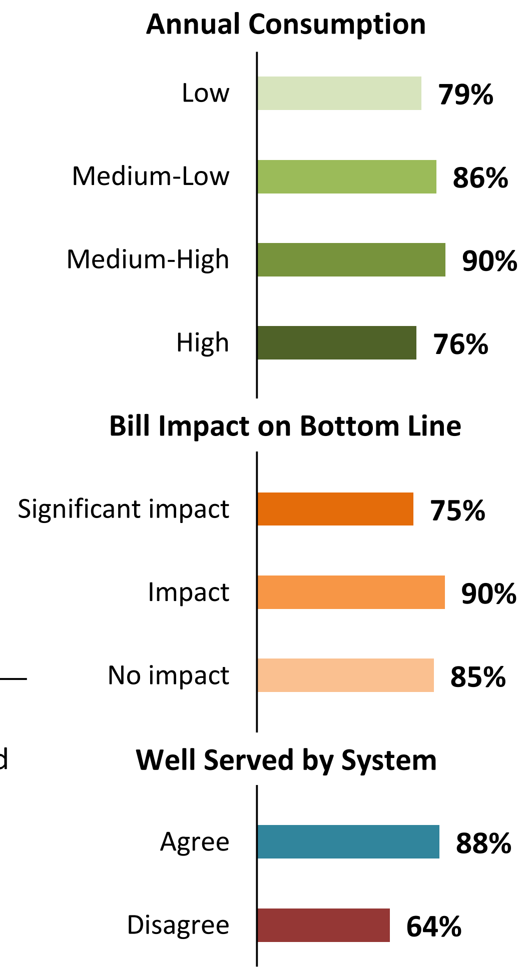
Satisfaction with Services

Small Business

Q In general, how satisfied or dissatisfied are you with the services your organization receives from PowerStream? Would you say you are very satisfied, somewhat satisfied, somewhat dissatisfied, or very dissatisfied?
[asked all respondents, n=205]



Segmentation
*Those who say "**Satisfied**":*



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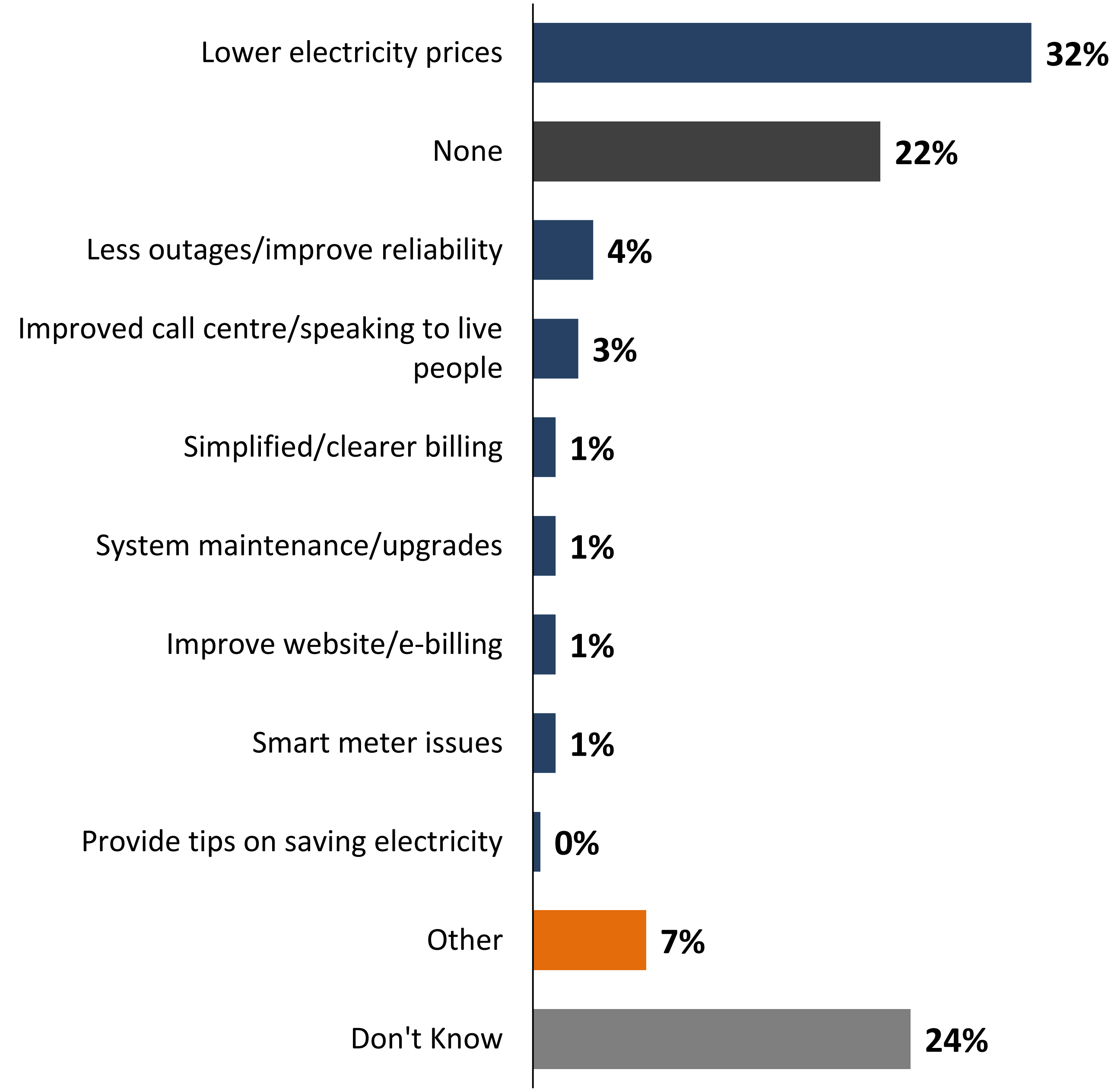
Suggestions for Improvements

Small Business

Q Is there anything in particular PowerStream can do to improve its service to your organization?
[asked all respondents, n=205]



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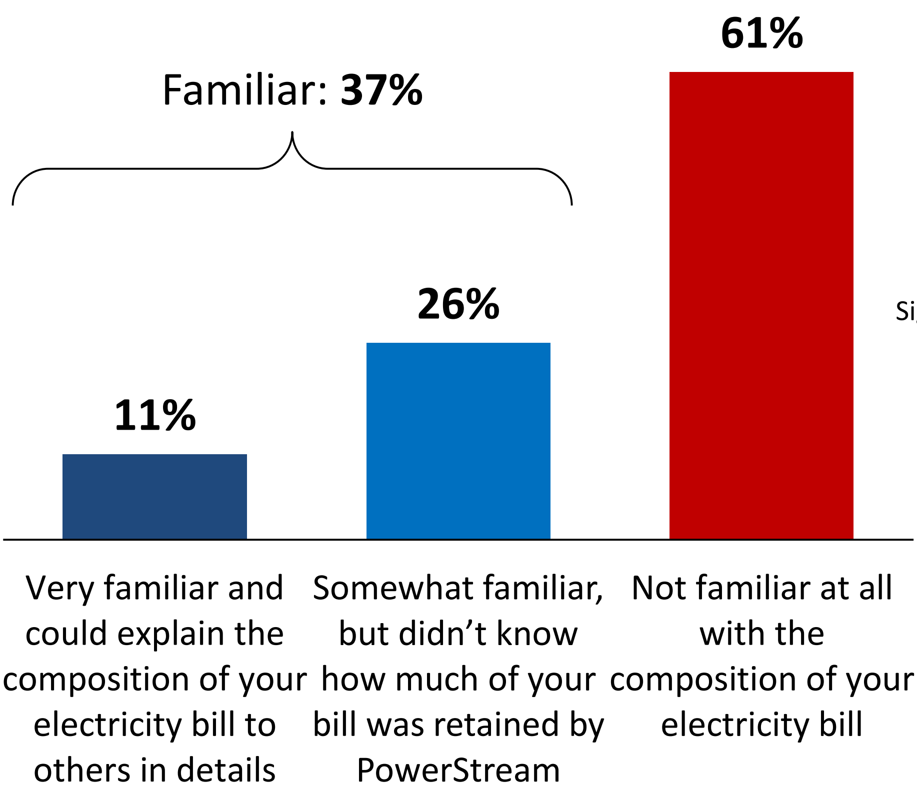
Familiarity with Amount of Electricity Bill Remitted

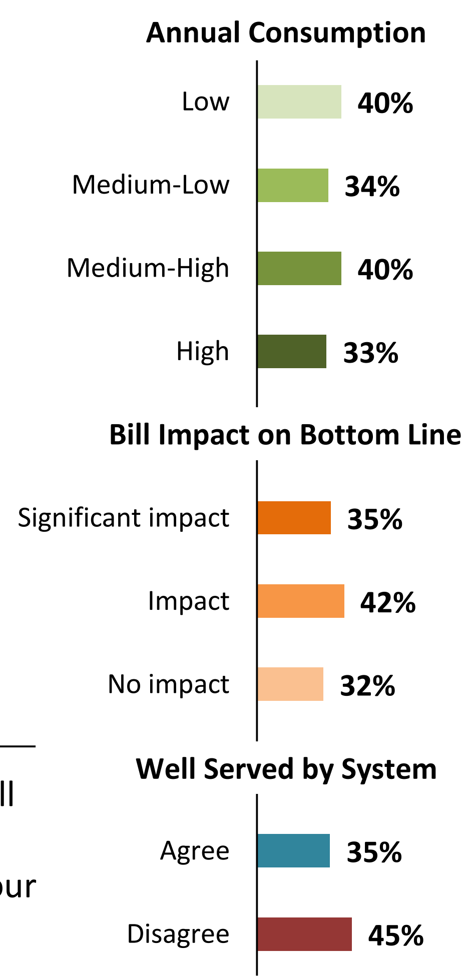
Small Business

Q While Powerstream is responsible for collecting payment for the entire electricity bill, they retain about 23% of the typical small business customer's bill. This is about $68.52 on an average $292.71 monthly small business electricity bill. The rest of the bill goes to power generation companies, transmission companies, the provincial government and regulatory agencies.

Before this survey, how familiar were you with the percentage of your organization's electricity bill that is retained by PowerStream?
[asked all respondents, n=205]



Segmentation
*Those who say "**Familiar**":*



INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (1%) not shown.

Customer Priorities

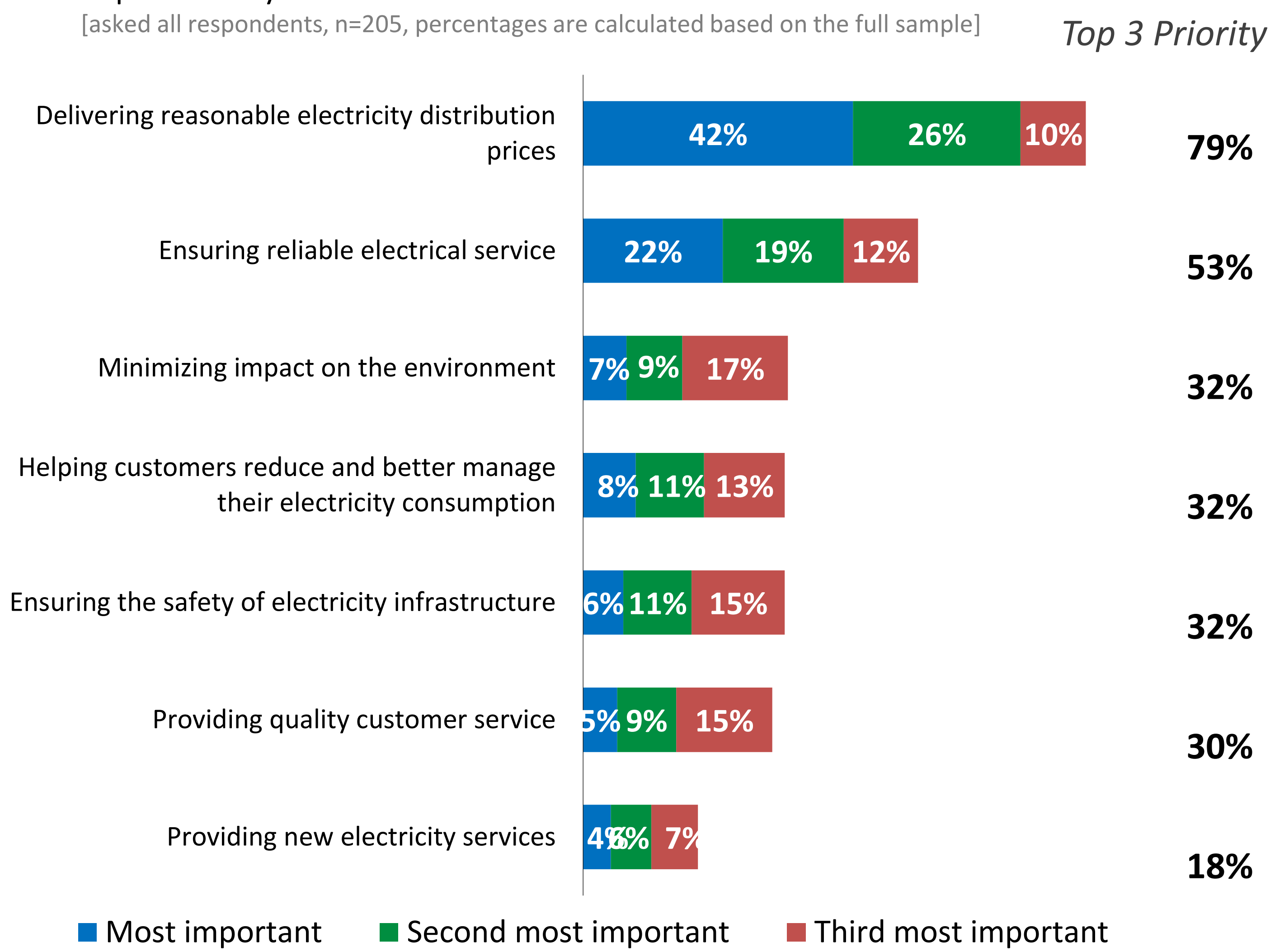
Small Business

Q Now lets talk about our second topic – outcomes. PowerStream regularly holds discussions with its customers to better understand how it should set spending priorities with the money customers pay for service.

In recent conversations with customers, a number of company goals were identified as key priorities for PowerStream.

Among the following PowerStream priorities, please tell me which one is most important to you.

[asked all respondents, n=205, percentages are calculated based on the full sample]

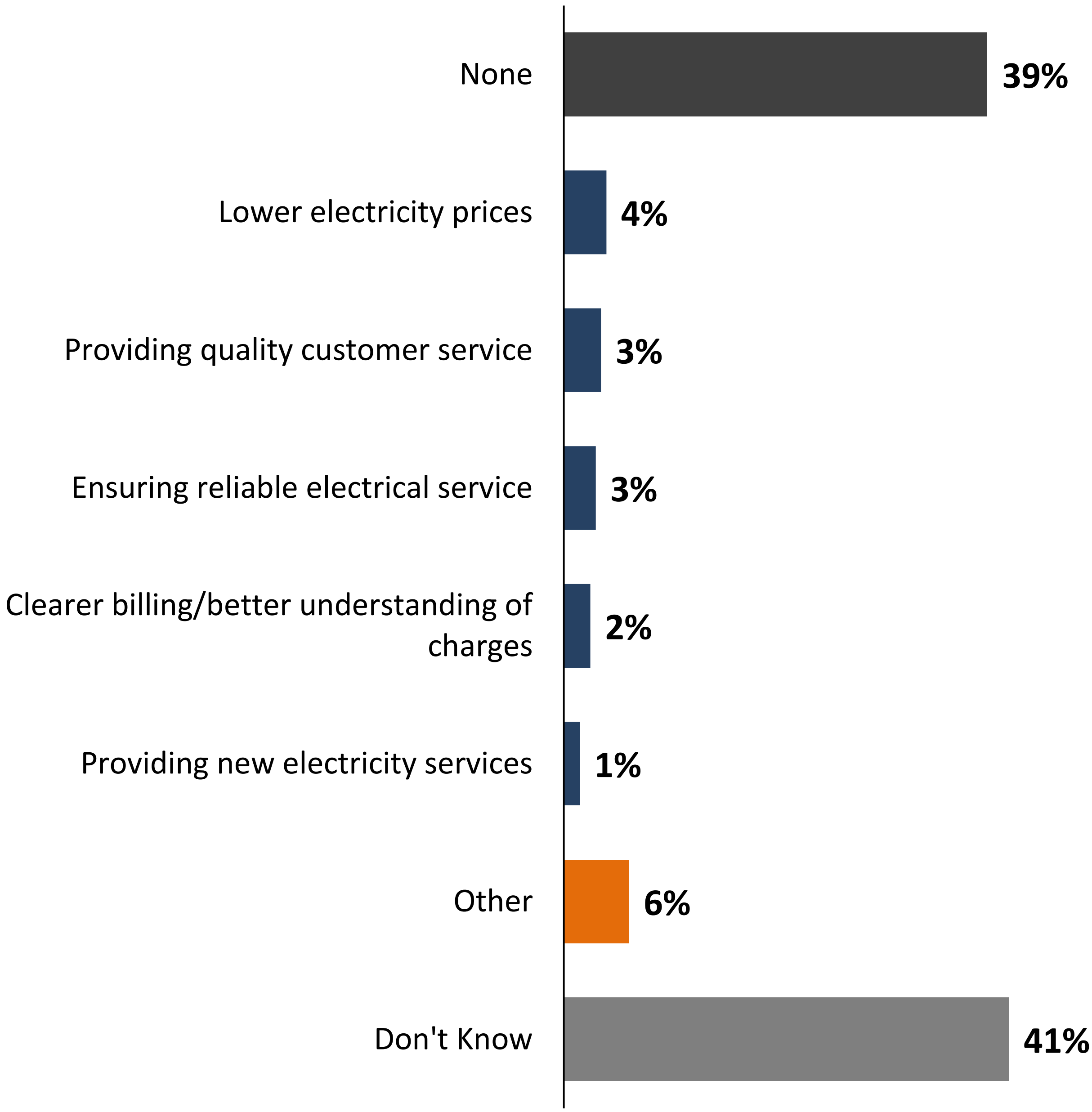


INNOVATIVE RESEARCH GROUP

Additional Priorities

Small Business

Q Are there any other important priorities that PowerStream should be focusing on that weren't included in the previous list I read to you?
[asked all respondents, n=205]



INNOVATIVE RESEARCH GROUP

System Reliability

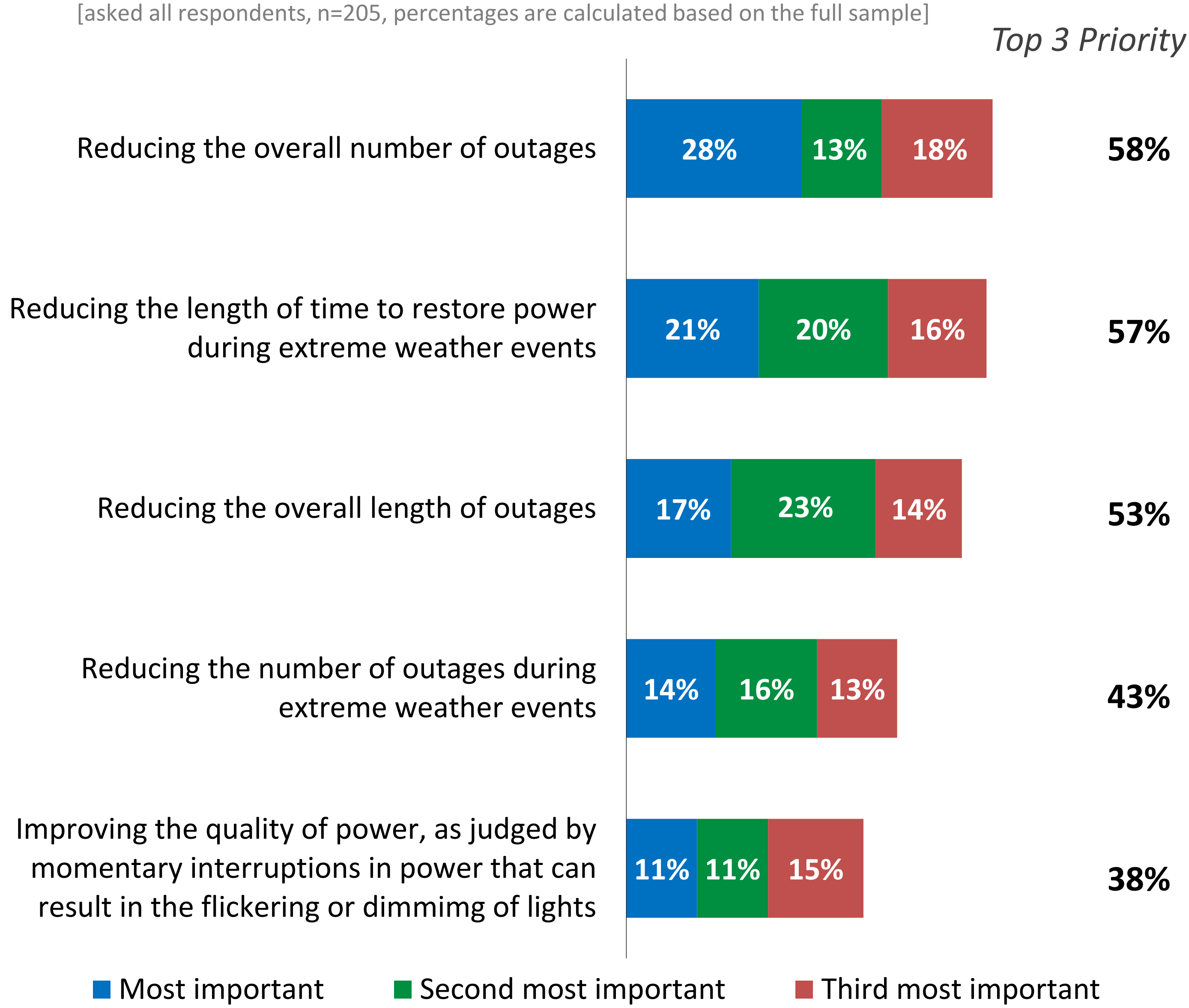
Small Business

Q We would like to understand your experience with reliability.

There are different outcomes when customers talk about power reliability.

Among the following reliability outcomes, please tell me which one is most important to you.

[asked all respondents, n=205, percentages are calculated based on the full sample]



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Familiarity with how Electricity Rates are Set

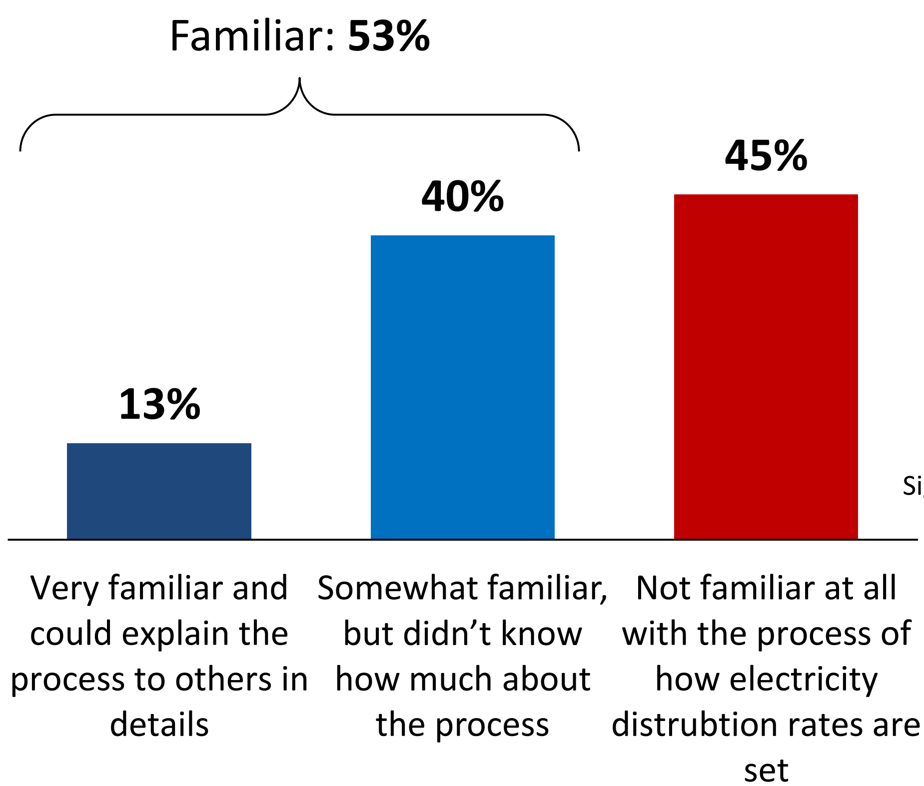
Small Business

Q *Now, lets turn to our third topic, investment trade-offs.* The electricity industry in Ontario is regulated by the Ontario Energy Board, otherwise known as the O-E-B. The OEB sets electricity rates in Ontario.

The OEB requires electricity distributors, such as Alectra Utilities, to develop its business plan and distribution system plan, as well as make spending and investment decisions based on customer feedback.

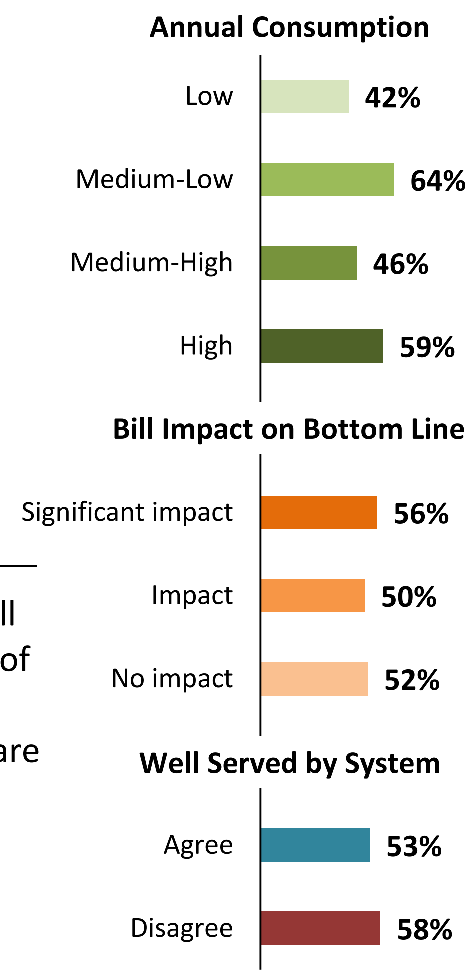
Electricity distributors are funded by the distribution rates paid by their customers. Periodically, distributors are required to file rate applications with the OEB to justify the amount of funding they need to safely and reliably distribute electricity to their customers.

Before this survey, how familiar were you with how electricity distribution rates are set in Ontario? [asked all respondents, n=205]



Segmentation

*Those who say "**Familiar**":*



Note: 'Don't know' (2%) not shown.

Investment Trade-Off Preamble

Small Business

"Alectra Utilities is now starting to create its first overall investment plan as a merged utility. The OEB divides electricity distributor investments into four categories. One category called system access includes investments that are mandatory under the distributor's licence to operate. These include reasonable costs to connect new customers and moving existing infrastructure to accommodate civic improvements.

The spending in the other three categories involves finding the right balance between the impact on your bill and the service you receive. We would now like ask a few questions about your preferences when it comes to finding the right balance between costs and other outcomes.

I want to start by asking you about system renewal, that is the projects that replace aging electrical infrastructure."

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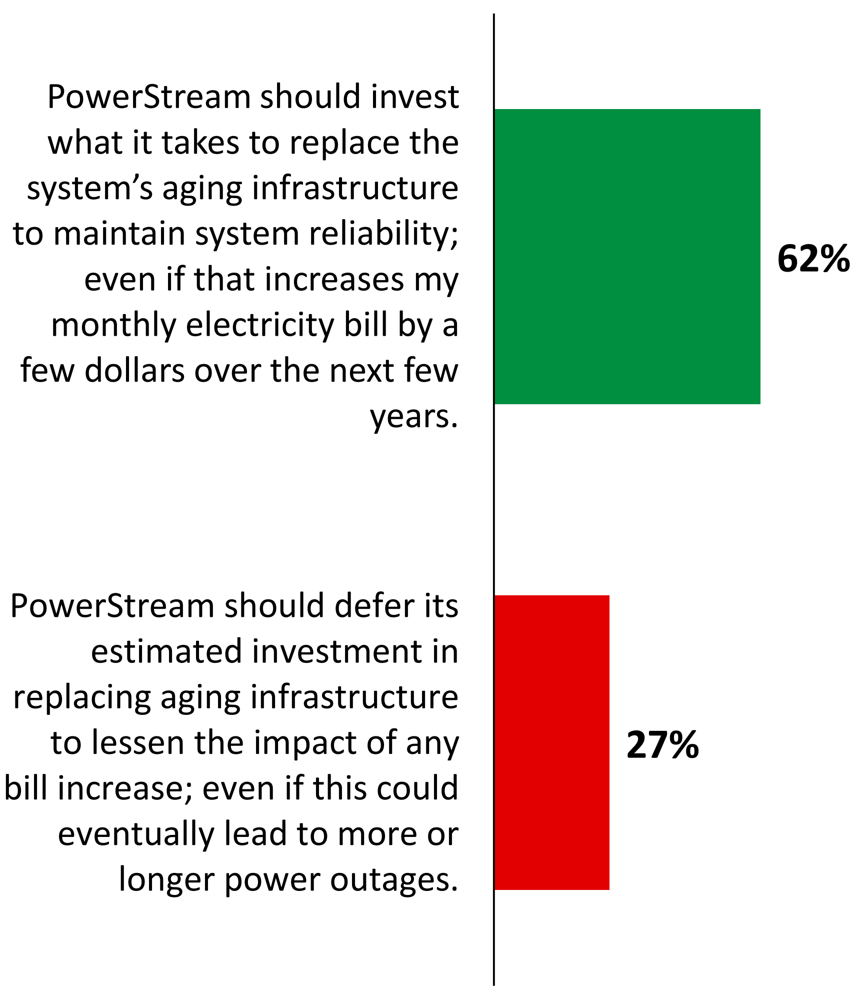
Investments in Aging Infrastructure

Small Business

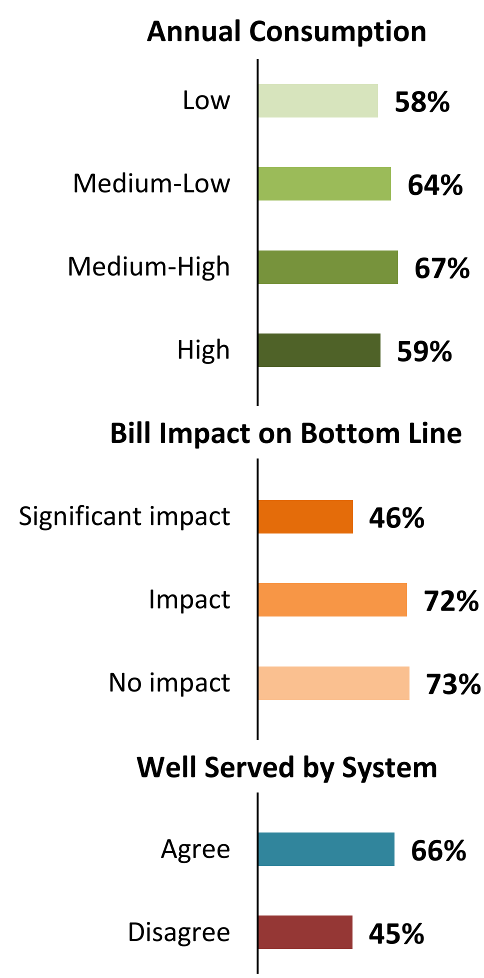
Q While PowerStream works hard to prolong the life of the assets that make up its distribution system, eventually these assets reach the end of their useful life and require replacement. Currently the average customer experiences **1.1 outages a year for an average of 57 minutes**. When adjusted to remove outages due to loss of supply from the transmission system and major storms, 42% of unscheduled outages are as a result of equipment failure in the PowerStream rate zone. However, it is not possible to predict exactly when a specific piece of aging equipment will fail. PowerStream must decide the pace at which it replaces this aging equipment.

Which of the following statements best represents your point of view?
[asked all respondents, n=205]



Segmentation

*Those who say "**invest what it takes to maintain system reliability**":*



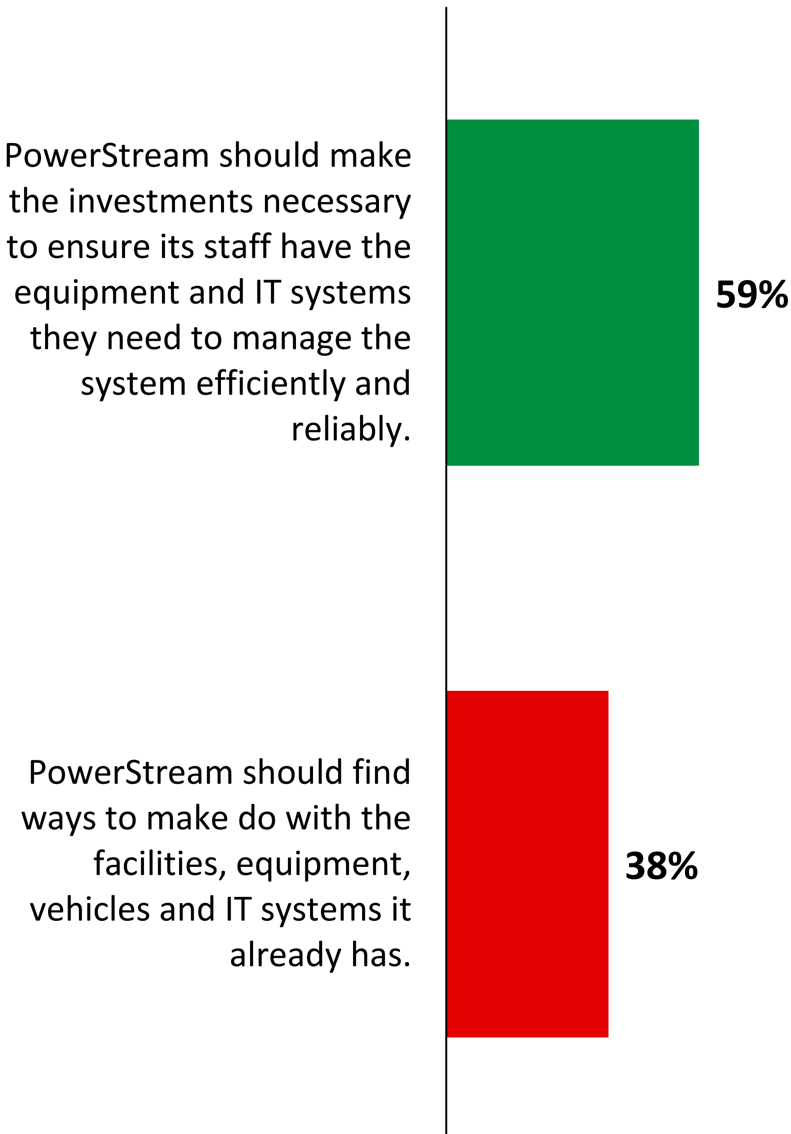
Note: 'Don't know' (7%), 'Refused' (4%) not shown.

General Plant Investments

Small Business

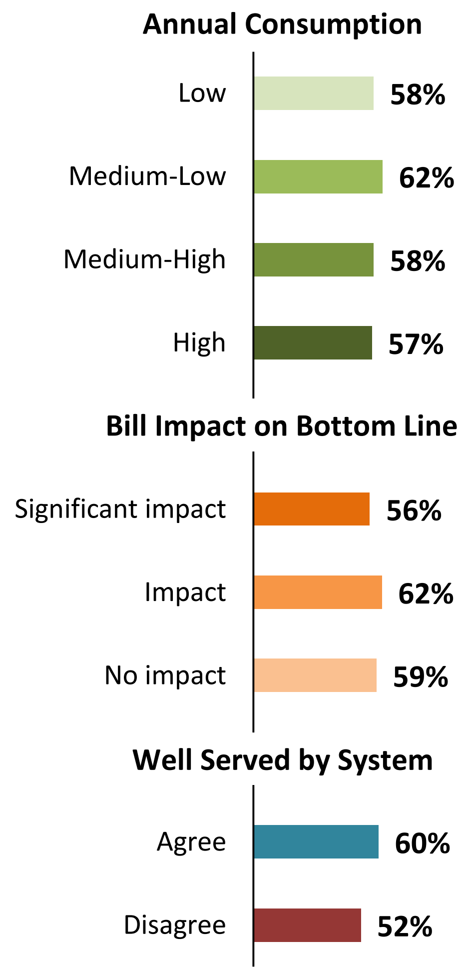
Q As a company, PowerStream needs facilities to house staff and equipment, vehicles and tools to service electrical infrastructure, and IT systems to manage the distribution system and customer information..

Which of the following statements best represents your point of view?
[asked all respondents, n=205]



Segmentation ▶▶

*Those who say "**make necessary investments**":*



INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (3%), 'Refused' (1%) not shown.

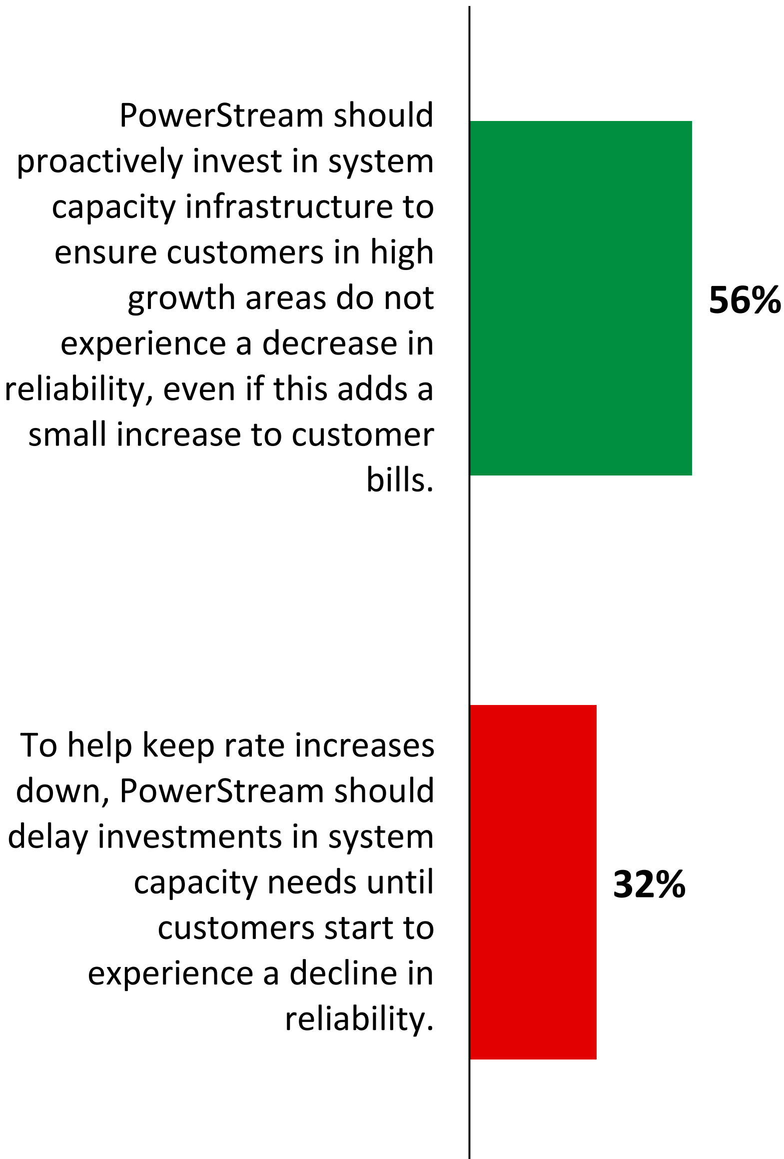
System Service Investments

Small Business

Q With growth in various parts of the PowerStream service area comes greater demand for electricity. This increased demand for electricity puts increased pressure on the existing electrical infrastructure. Eventually, further infrastructure investments will be required to support increased demand for electricity.

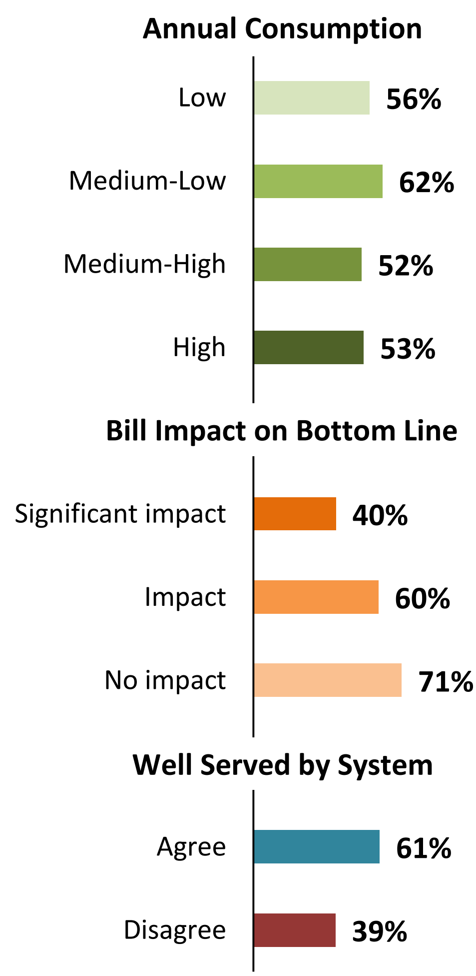
With this in mind, which of the following statements best represents your point of view?

[asked all respondents, n=205]



Segmentation

*Those who say "**proactively invest in system capacity**":*



Note: 'Don't know' (9%), 'Refused' (4%) not shown.

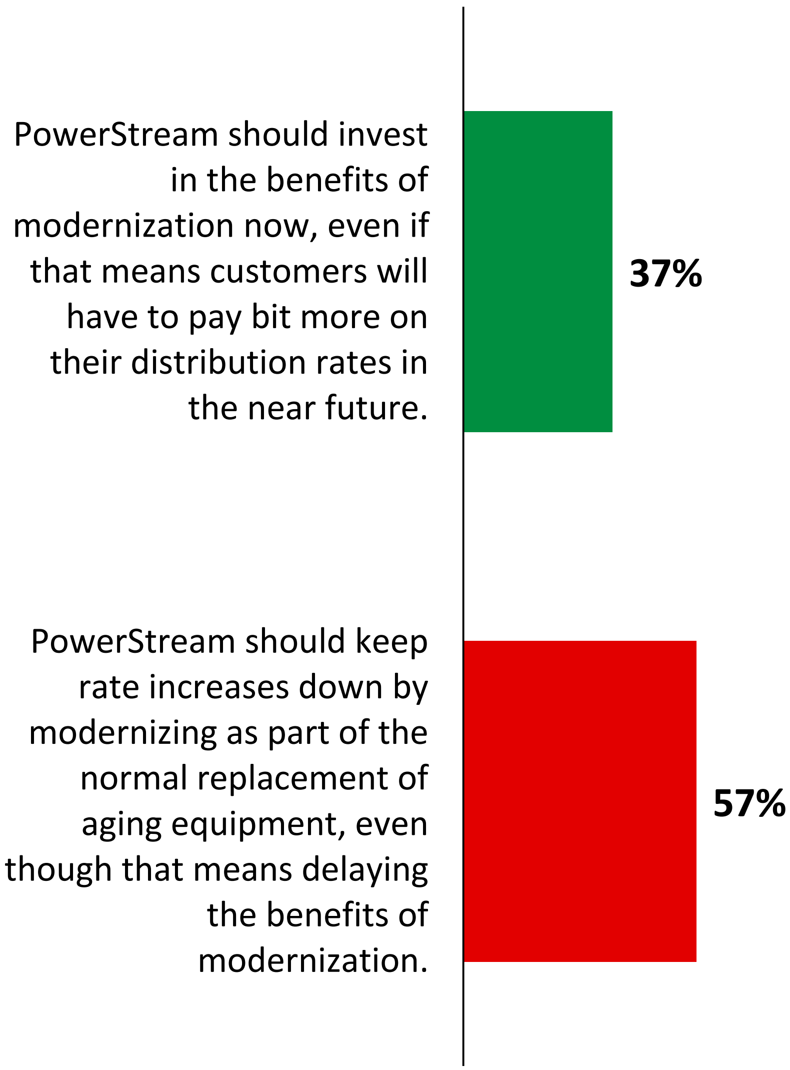
Modernizing the Distribution System

Small Business

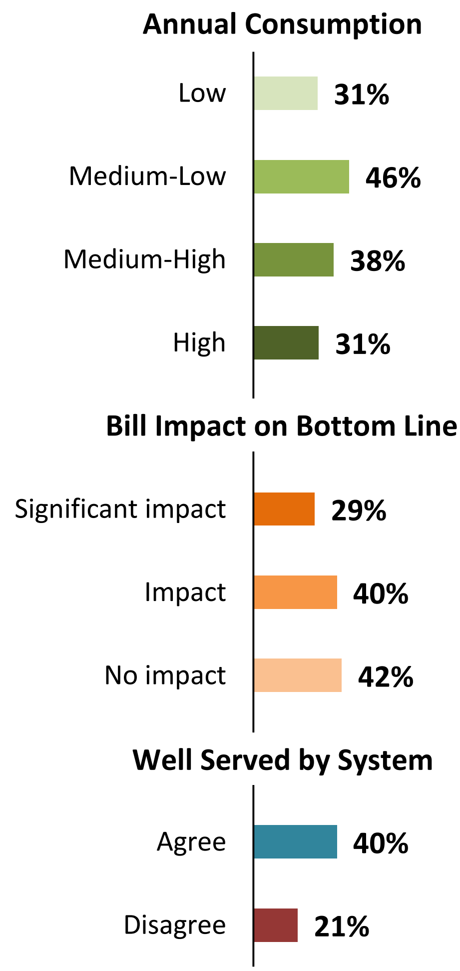
Q There are new technologies that PowerStream can implement such as microgrids, electricity storage, and automatic switches that can give customers more choices, improve reliability or reduce the impact on the environment.

These investments would create a better grid, but are not required to maintain the reliability that you experience today.

Which of the following statements best represent your point of view?
[asked all respondents, n=205]



Segmentation ▸▸
*Those who say "**invest in modernization now**":*



INNOVATIVE RESEARCH GROUP

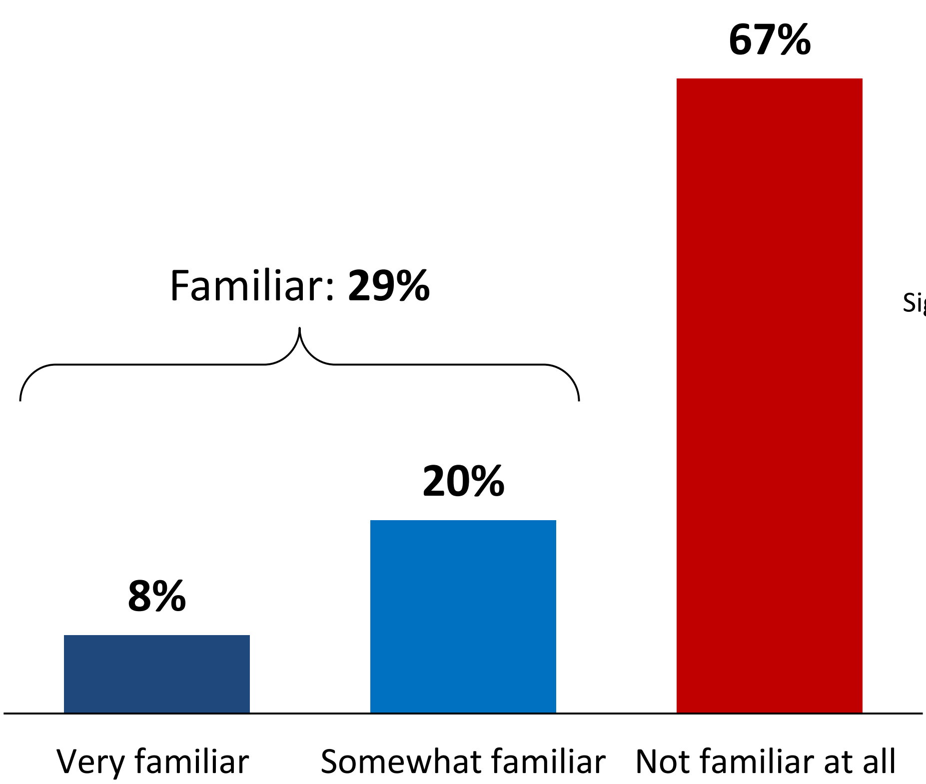
Note: 'Don't know' (4%), 'Refused' (2%) not shown.

Familiarity with OEB "Cost Saving" Requirements

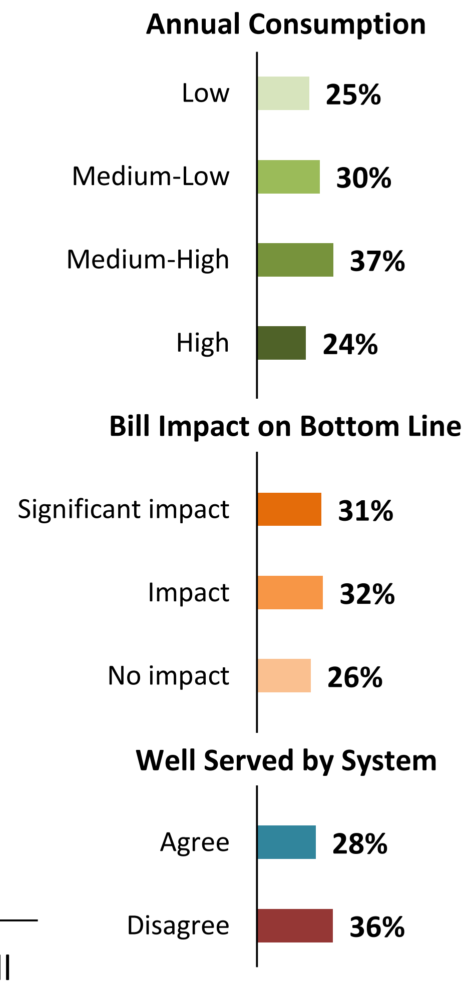
Small Business

Q As we mentioned earlier, the rates you pay to PowerStream are set by the OEB through a public process. PowerStream's current rates were approved in a 2017 application and will be in place until 2027. Each year PowerStream is permitted to increase rates to reflect inflation minus savings targets established by the OEB which requires PowerStream to keep cost increases below inflation.

Before this survey, how familiar were you with the OEB requirement for PowerStream to find savings every year?
[asked all respondents, n=205]



Segmentation ▸▸
*Those who say "**Familiar**":*



Note: 'Don't know' (2%), 'Refused' (2%) not shown.

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ICM Rate Impact Preamble

Small Business

"Now let's turn to our final topic – possible new projects. As part of the OEB policies, there is an option for PowerStream to apply for additional rate increases for discrete projects that are prudent, needed and not supported by existing rates. Looking ahead to 2019, PowerStream has identified three projects that need more investment than the existing budget allows.

One project involves relocating six major feeder lines and the accompanying metering equipment to accommodate the rebuild of a major Transmission substation. PowerStream is using the lowest cost option to complete this project.

The second project involves relocating poles and wires as part of the York Region Rapid Transit VIVA bus projects. There are no major design choices in this project."

Bathurst Street Road Widening Preamble

Small Business

"The third project involves relocating both overhead and underground wires and supporting equipment as part of the Bathurst Street road widening from Highway 7 to Teston road.

Powerstream has two options for this project. It can [ROTATE]:

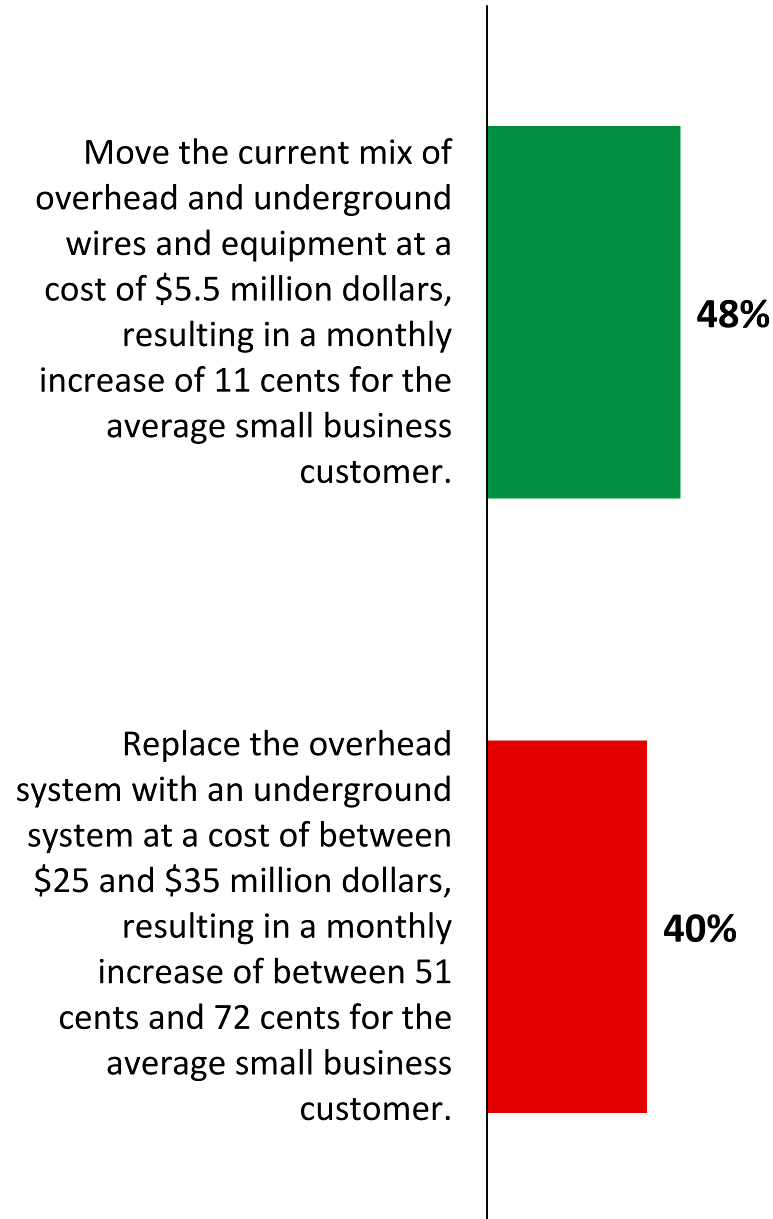
- *move the current mix of overhead and underground wires and equipment at a cost of $5.5 million dollars, OR*
- *replace the overhead system with an underground system for better protection against weather and collisions from vehicles at a cost of between $25 and $35 million dollars."*

Bathurst Street Road Widening

Small Business

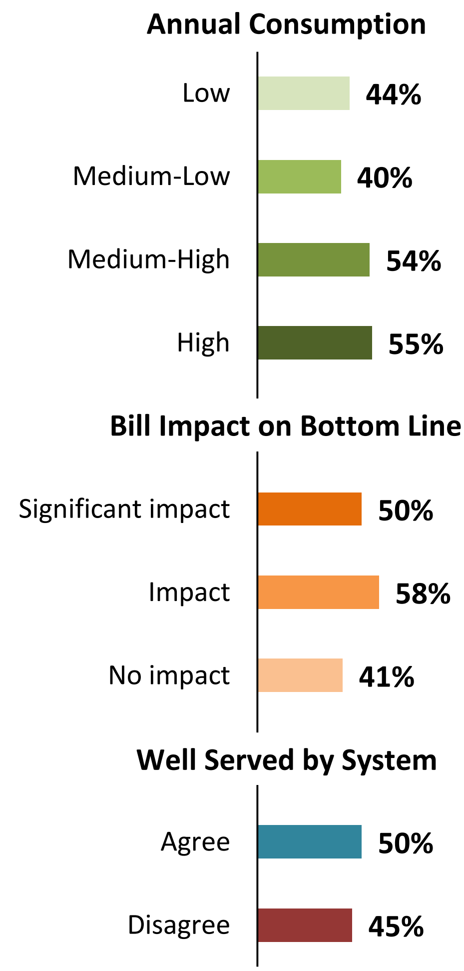
Q Given earlier customer feedback emphasizing the need to keep rate increases down, PowerStream is currently planning on taking the first option - to move the current mix of overhead and underground wires and equipment.

Which option do you prefer?
[asked all respondents, n=205]



Segmentation

*Those who say "**Move current mix of equipment**":*



INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (7%), 'Refused' (5%) not shown.

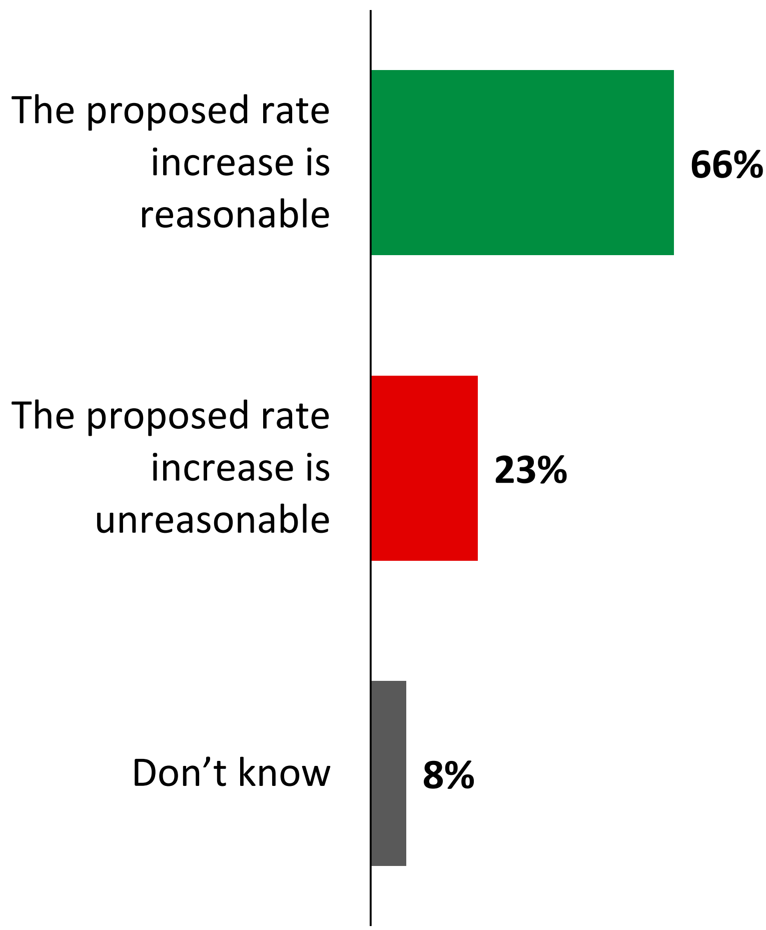
Opinion of Proposed ICM Rate Impact

Small Business

Q As I mentioned earlier, each year PowerStream is permitted to increase rates to reflect inflation minus a stretch factor which requires PowerStream to find savings to keep cost increases below inflation. In order to maintain the existing plan to replace aging infrastructure and complete the mandatory projects previously discussed, PowerStream would need to add a 43 cent charge to the typical small business customers monthly electricity bill, from 2019 to 2026.

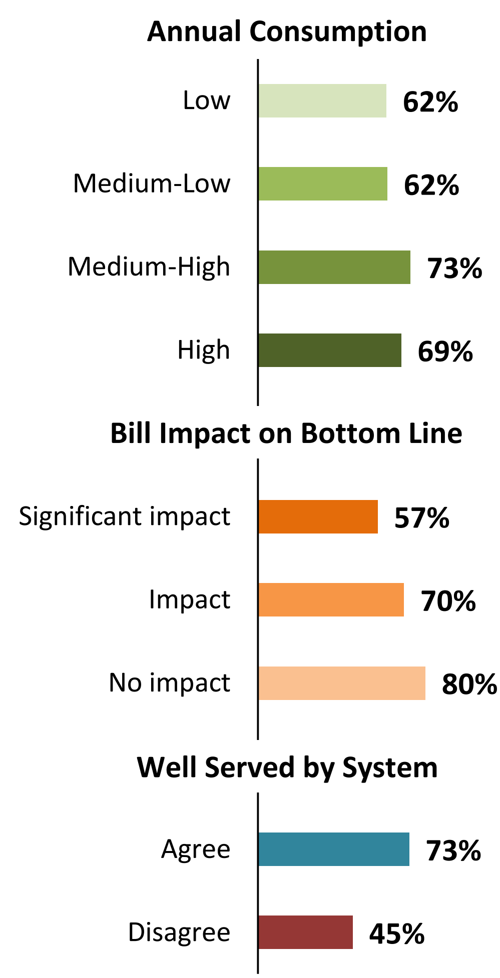
That would result in an annual increase of $5.16 each year over the course of the next eight years – *totalling $41.28 over that period.*

What is your opinion on this proposed rate increase in 2019?
[asked all respondents, n=205]



Segmentation

*Those who say "**Rate increase is reasonable**":*



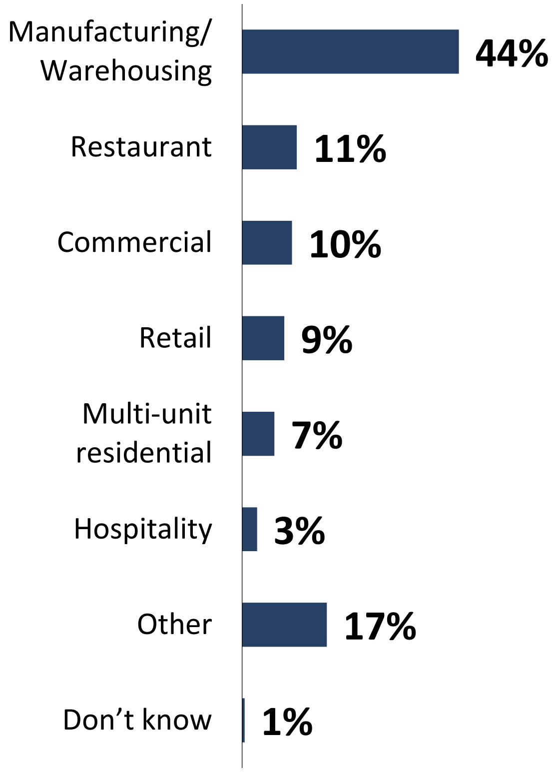
Note: 'Refused' (2%) not shown.

Mid-Sized Business Rate Class

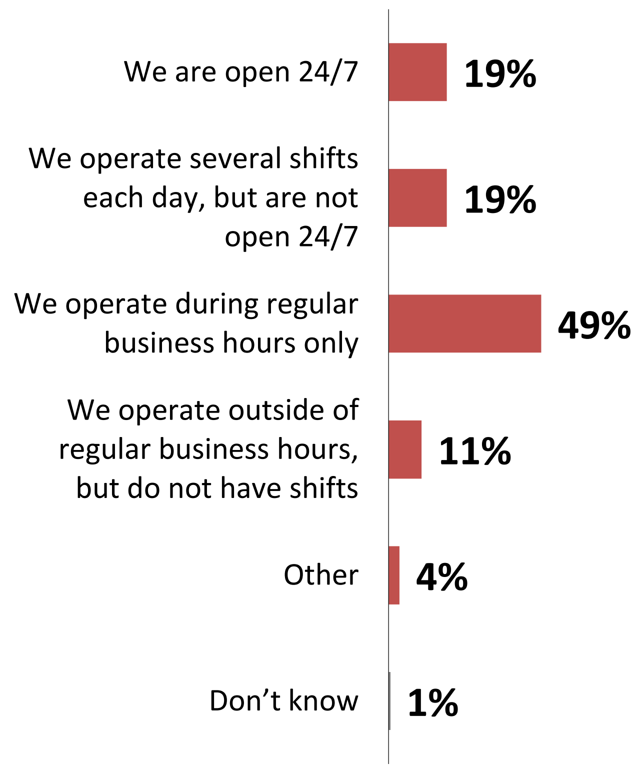
Segmentation & Firmographics

Mid-Sized Business

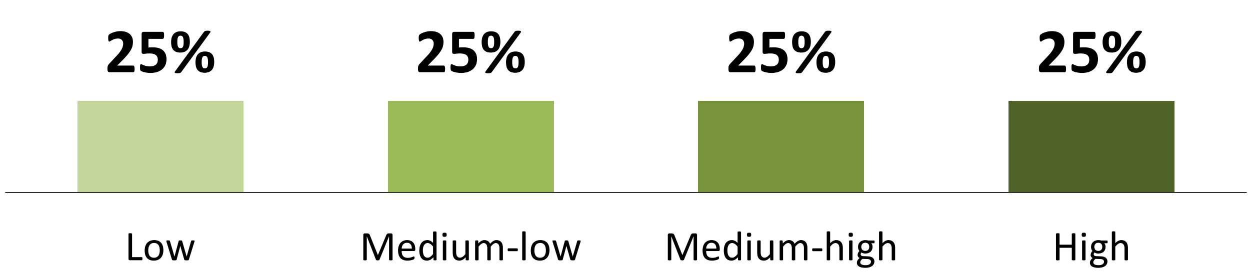
Sector



Hours of Operation



Annual Consumption

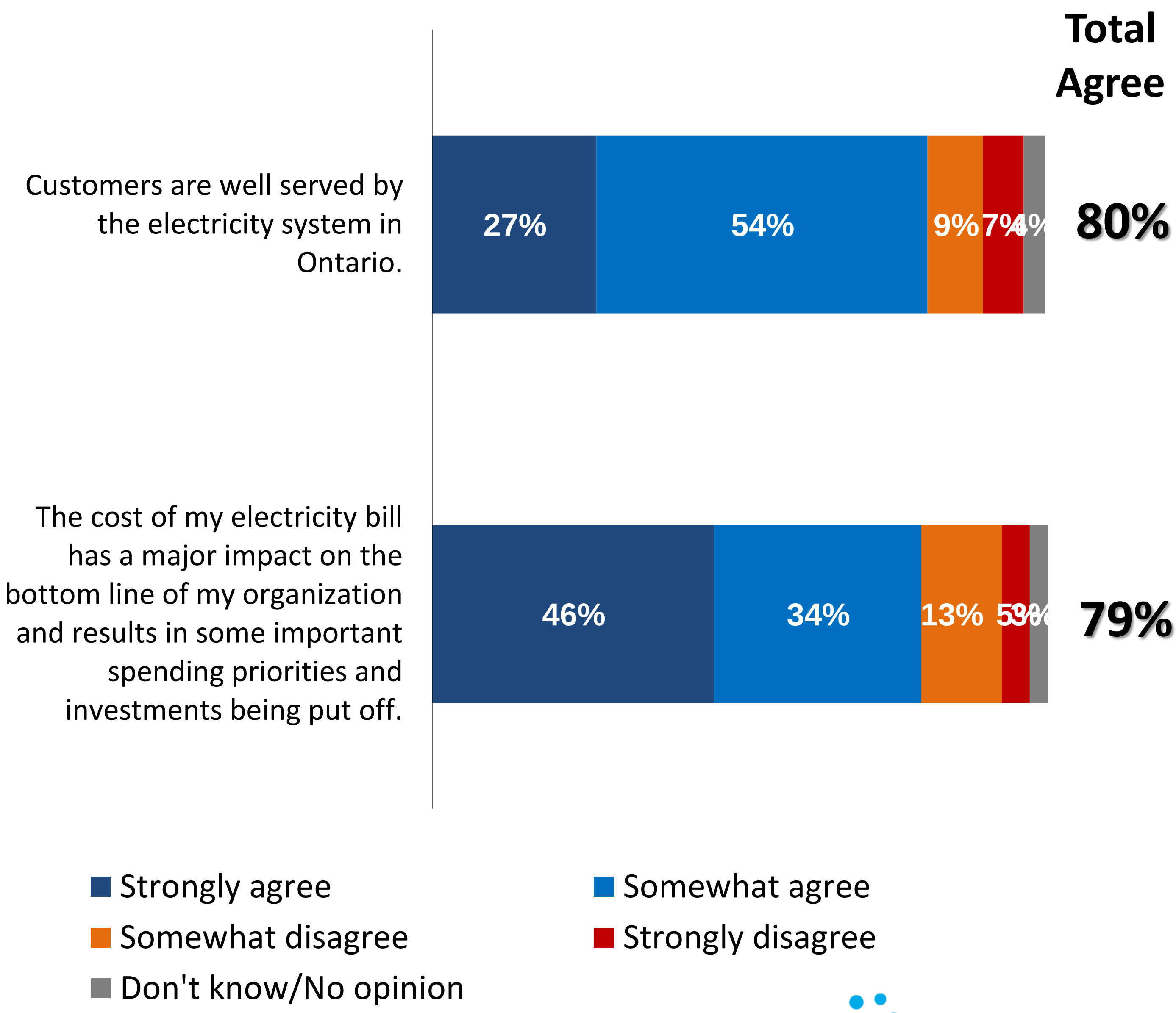


Segmentation & Firmographics

Mid-Sized Business

Q For each statement please tell me if you would strongly agree, somewhat agree, somewhat disagree or strongly disagree. If you don't know enough to say or don't have an opinion just let me know.

[asked all respondents, n=200]



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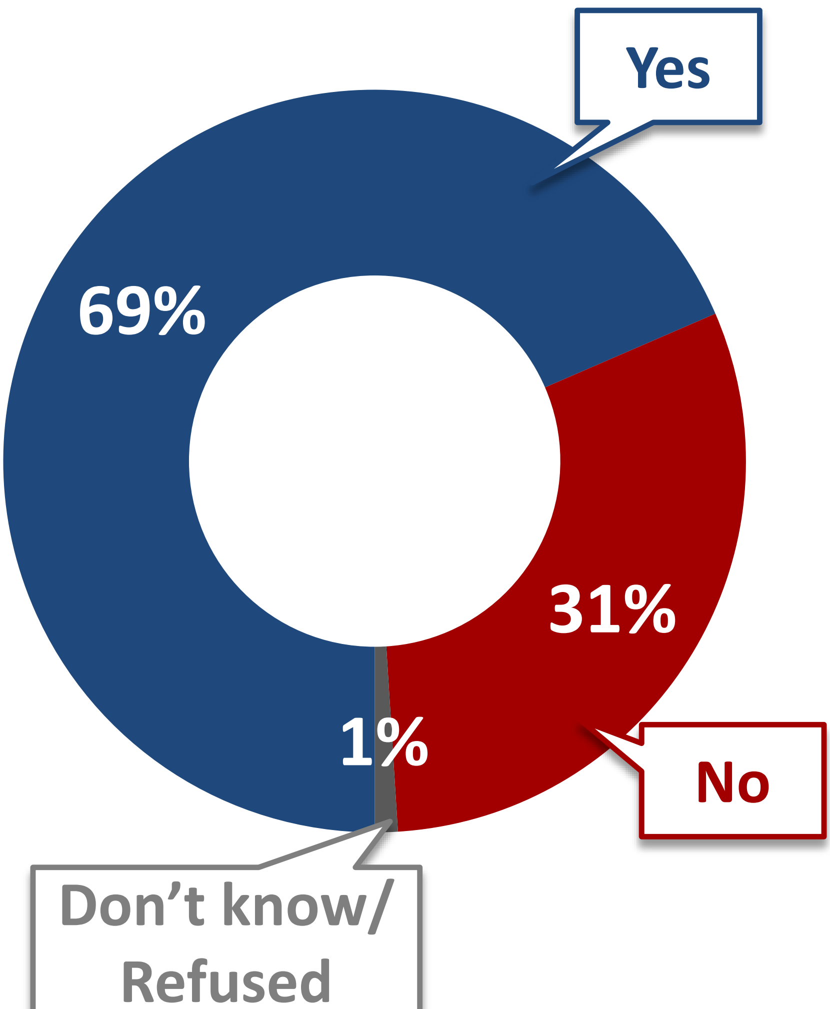
Awareness of Merger

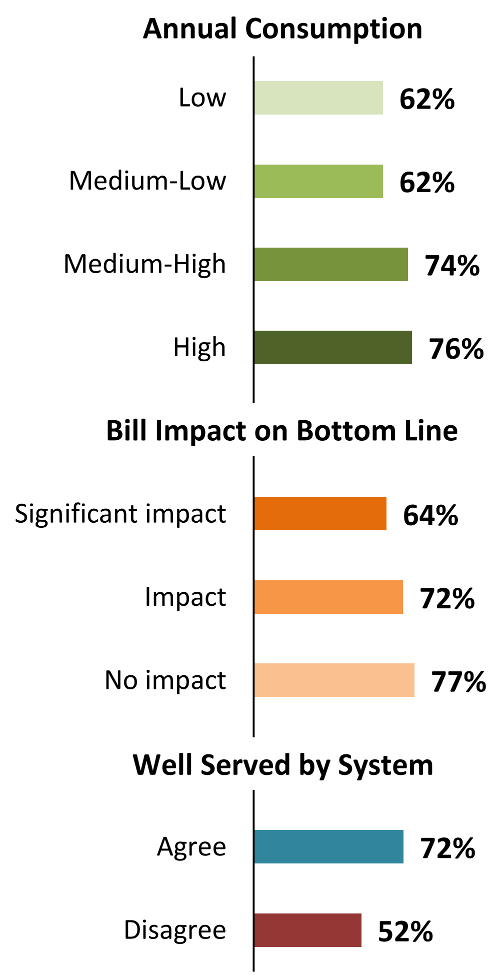
Mid-Sized Business

Q You may have recently heard that PowerStream has merged with neighbouring electricity distributors to form a new company called Alectra Utilities.

Had you heard of the Alectra Utilities merger before this survey?
[asked all respondents, n=200]



Segmentation ▸▸
*Those who say "**Heard of merger**":*



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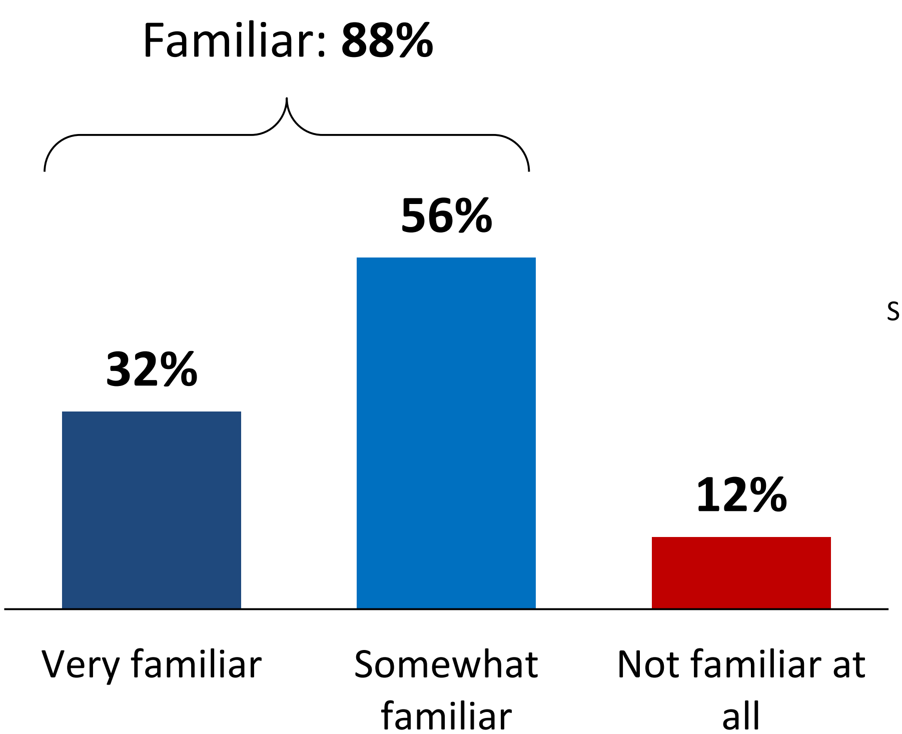
Familiarity with PowerStream

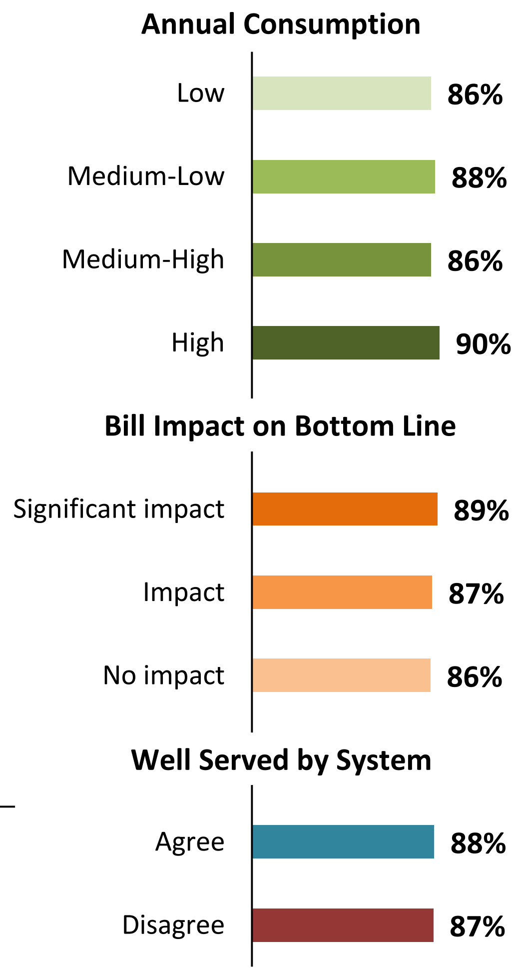
Mid-Sized Business

Q First, let's talk about your experience. As you may know, PowerStream operates and maintains the local electricity distribution system in this area. This is the system that takes the electricity from provincial transmission lines and brings it to your business through a network of wires, poles and other equipment that is owned and operated by PowerStream.

How familiar are you with PowerStream?
[asked all respondents, n=200]



Segmentation
*Those who say "**Familiar**":*

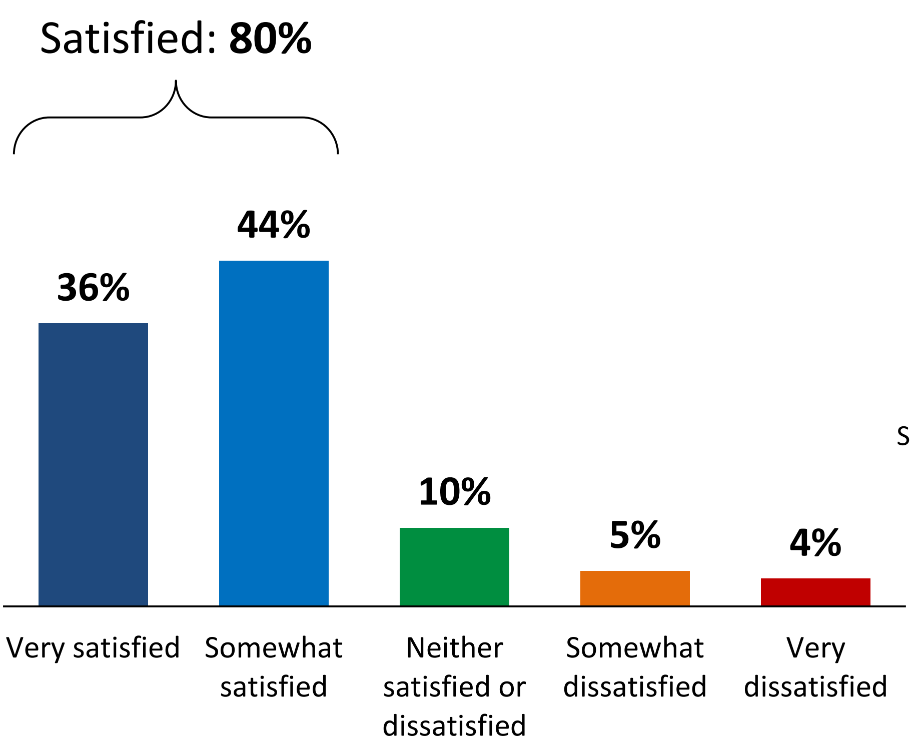


Note: 'Don't know' (1%) not shown.

Satisfaction with Services

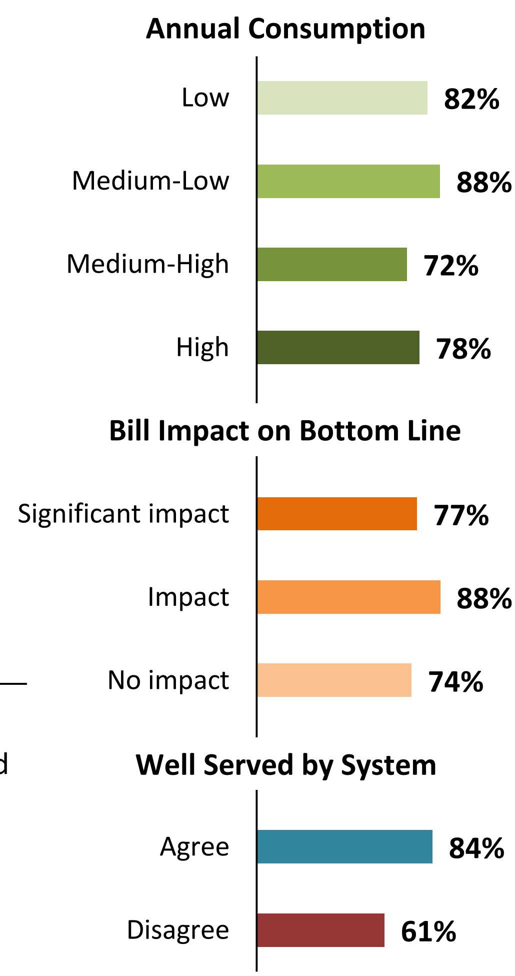
Mid-Sized Business

Q In general, how satisfied or dissatisfied are you with the services your organization receives from PowerStream? Would you say you are very satisfied, somewhat satisfied, somewhat dissatisfied, or very dissatisfied?
[asked all respondents, n=200]



Segmentation

*Those who say "**Satisfied**":*



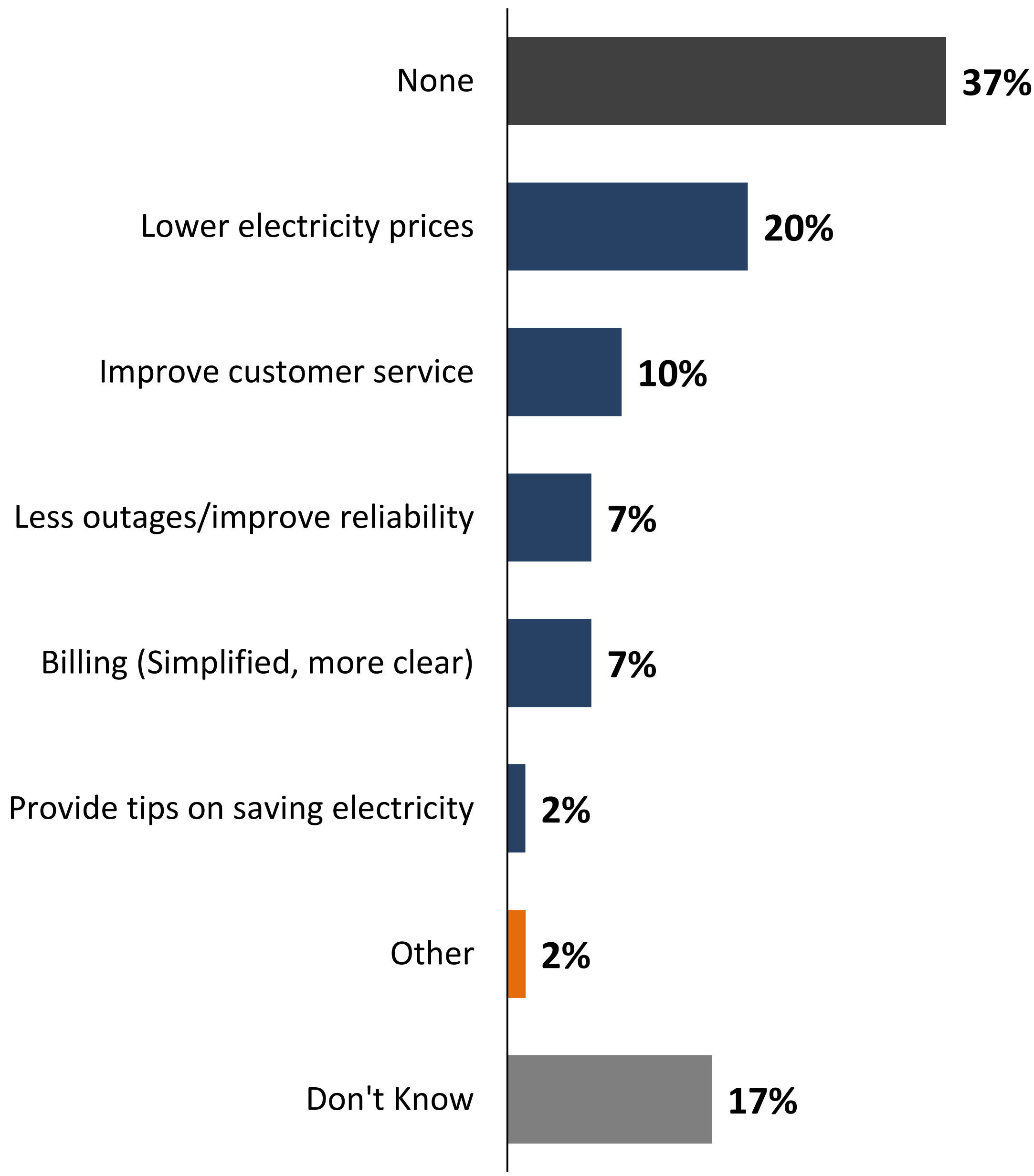
INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (1%) & 'Refused' (1%) not shown.

Suggestions for Improvements

Mid-Sized Business

Q Is there anything in particular PowerStream can do to improve its service to your organization?
[asked all respondents, n=200]



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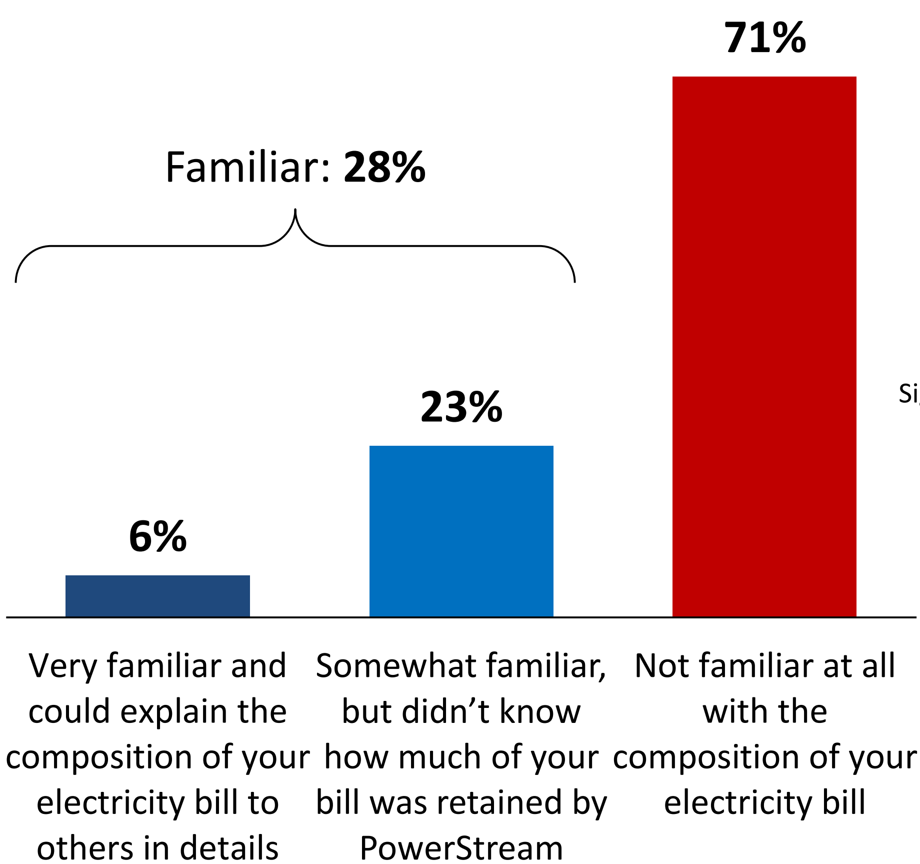
Familiarity with Amount of Electricity Bill Remitted

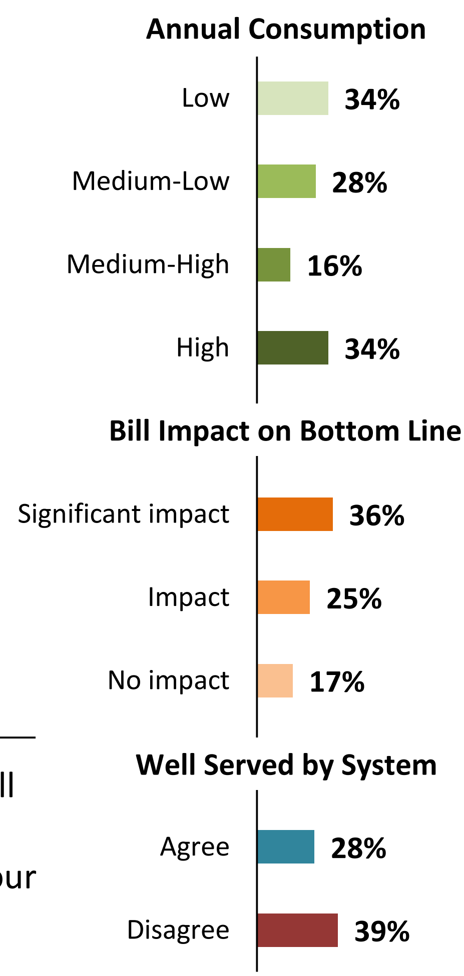
Mid-Sized Business

Q While Powerstream is responsible for collecting payment for the entire electricity bill, they retain about 9% of the typical mid-sized business customer's bill. This is about $1,231.50 on an average $14,310 monthly mid-sized business electricity bill. The rest of the bill goes to power generation companies, transmission companies, the provincial government and regulatory agencies.

Before this survey, how familiar were you with the percentage of your organization's electricity bill that is retained by PowerStream?
[asked all respondents, n=200]



Segmentation ▸▸
*Those who say "**Familiar**":*



Note: 'Don't know' (1%) & 'Refused' (1%) not shown.

INNOVATIVE RESEARCH GROUP

Customer Priorities

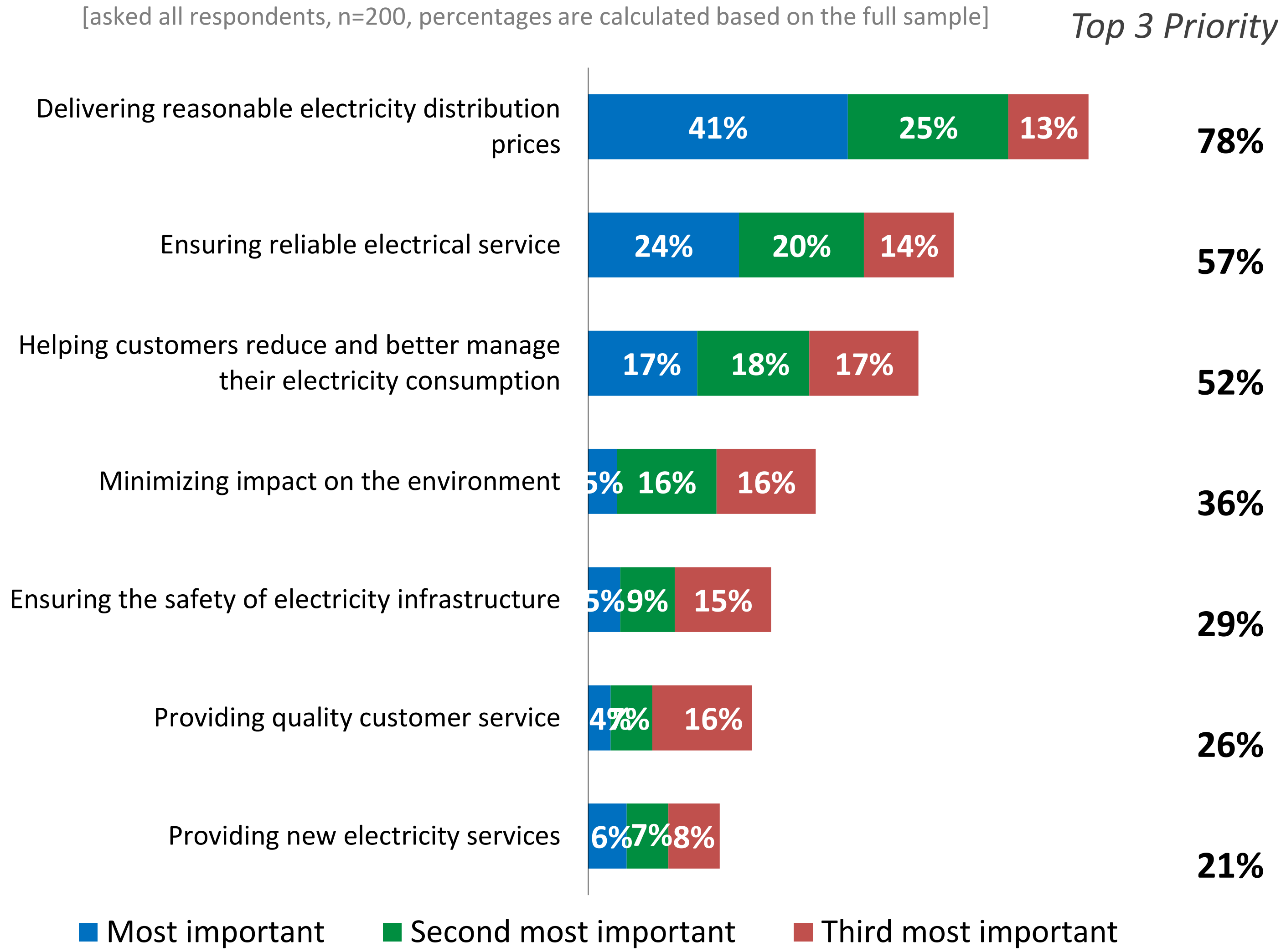
Mid-Sized Business

Q Now lets talk about our second topic – outcomes. PowerStream regularly holds discussions with its customers to better understand how it should set spending priorities with the money customers pay for service.

In recent conversations with customers, a number of company goals were identified as key priorities for PowerStream.

Among the following PowerStream priorities, please tell me which one is most important to you.

[asked all respondents, n=200, percentages are calculated based on the full sample]

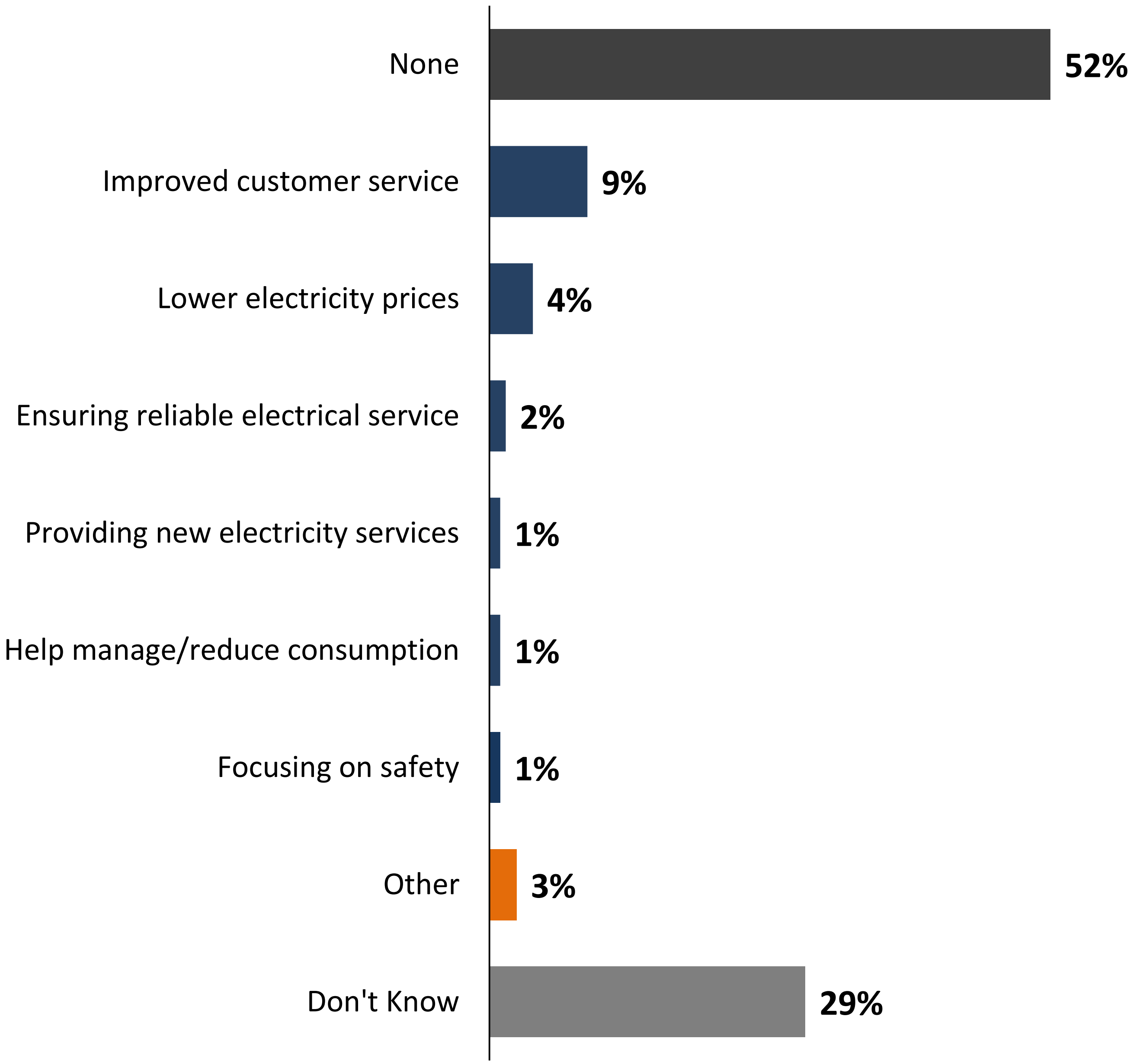


INNOVATIVE RESEARCH GROUP

Additional Priorities

Mid-Sized Business

Q Are there any other important priorities that PowerStream should be focusing on that weren't included in the previous list I read to you?
[asked all respondents, n=200]



INNOVATIVE RESEARCH GROUP

System Reliability

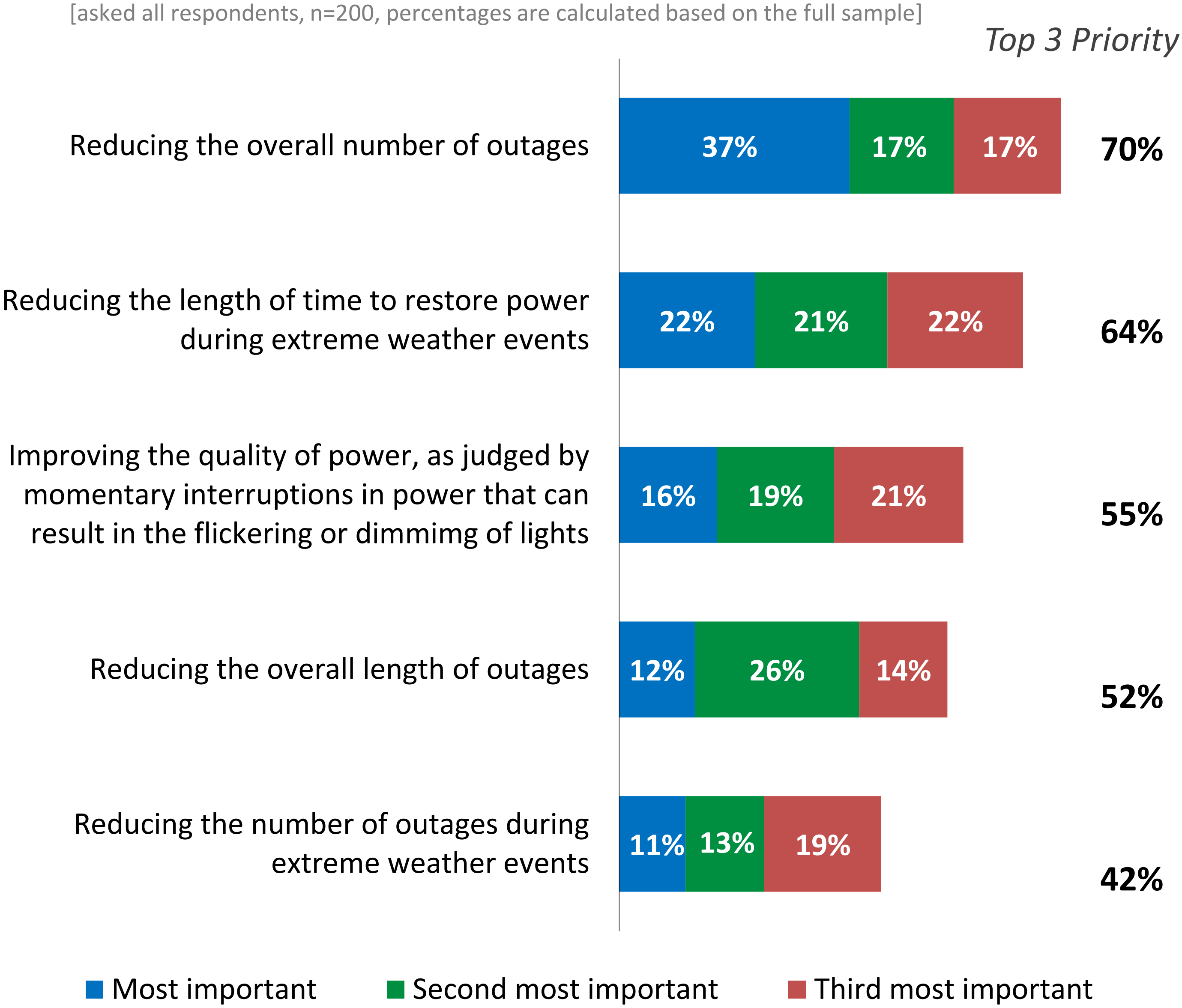
Mid-Sized Business

Q We would like to understand your experience with reliability.

There are different outcomes when customers talk about power reliability.

Among the following reliability outcomes, please tell me which one is most important to you.

[asked all respondents, n=200, percentages are calculated based on the full sample]



Familiarity with how Electricity Rates are Set

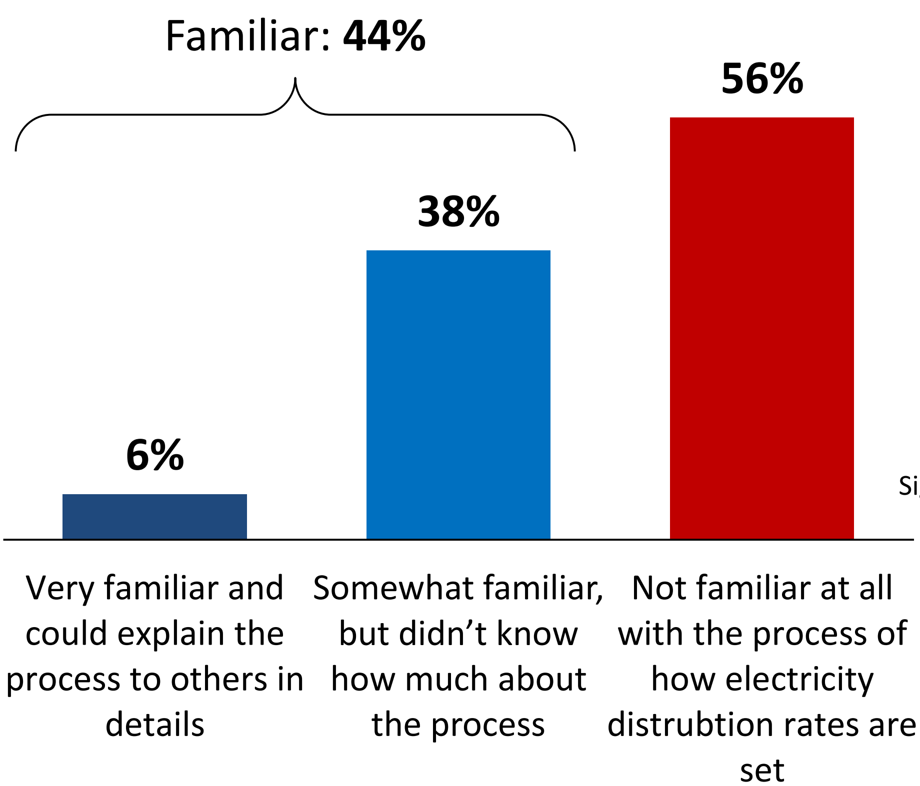
Mid-Sized Business

Q *Now, lets turn to our third topic, investment trade-offs.* The electricity industry in Ontario is regulated by the Ontario Energy Board, otherwise known as the O-E-B. The OEB sets electricity rates in Ontario.

The OEB requires electricity distributors, such as Alectra Utilities, to develop its business plan and distribution system plan, as well as make spending and investment decisions based on customer feedback.

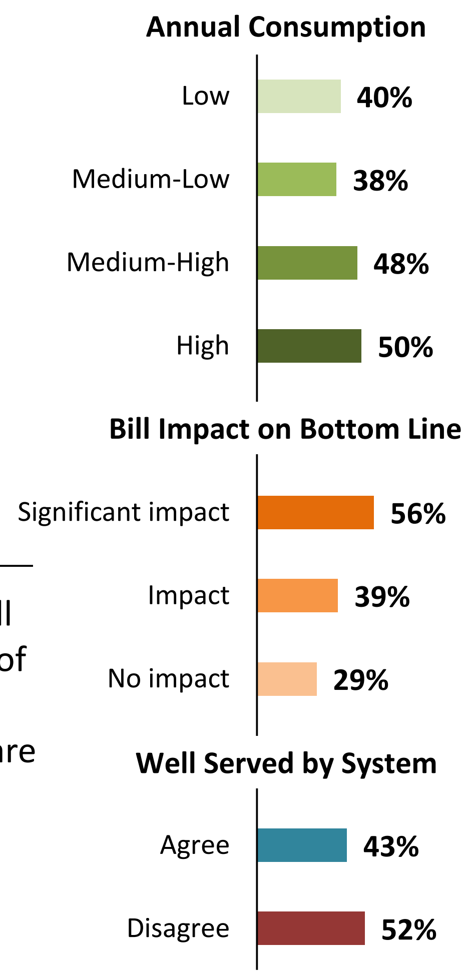
Electricity distributors are funded by the distribution rates paid by their customers. Periodically, distributors are required to file rate applications with the OEB to justify the amount of funding they need to safely and reliably distribute electricity to their customers.

Before this survey, how familiar were you with how electricity distribution rates are set in Ontario? [asked all respondents, n=200]



Segmentation

*Those who say "**Familiar**":*



Note: 'Don't know' (1%) not shown.

Investment Trade-Off Preamble

Mid-Sized Business

"Alectra Utilities is now starting to create its first overall investment plan as a merged utility. The OEB divides electricity distributor investments into four categories. One category called system access includes investments that are mandatory under the distributor's licence to operate. These include reasonable costs to connect new customers and moving existing infrastructure to accommodate civic improvements.

The spending in the other three categories involves finding the right balance between the impact on your bill and the service you receive. We would now like ask a few questions about your preferences when it comes to finding the right balance between costs and other outcomes.

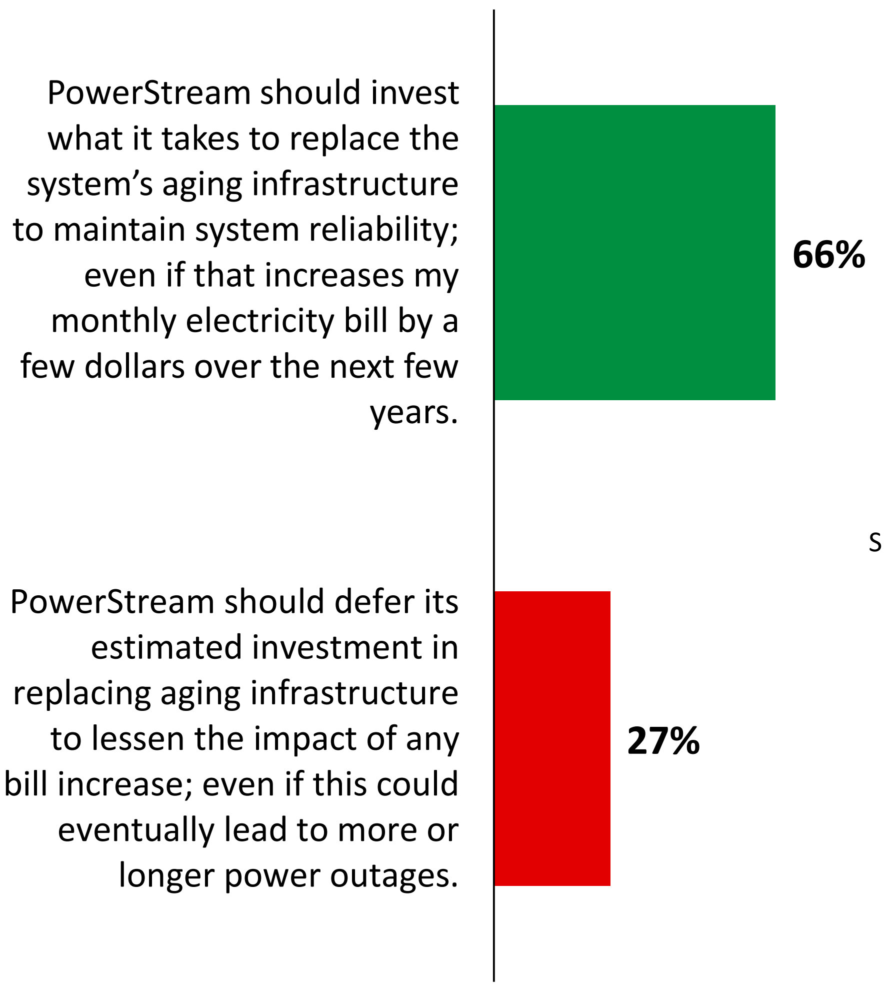
I want to start by asking you about system renewal, that is the projects that replace aging electrical infrastructure."

Investments in Aging Infrastructure

Mid-Sized Business

Q While PowerStream works hard to prolong the life of the assets that make up its distribution system, eventually these assets reach the end of their useful life and require replacement. Currently the average customer experiences **1.1 outages a year for an average of 57 minutes**. When adjusted to remove outages due to loss of supply from the transmission system and major storms, 42% of unscheduled outages are as a result of equipment failure in the PowerStream rate zone. However, it is not possible to predict exactly when a specific piece of aging equipment will fail. PowerStream must decide the pace at which it replaces this aging equipment.

Which of the following statements best represents your point of view?
[asked all respondents, n=200]



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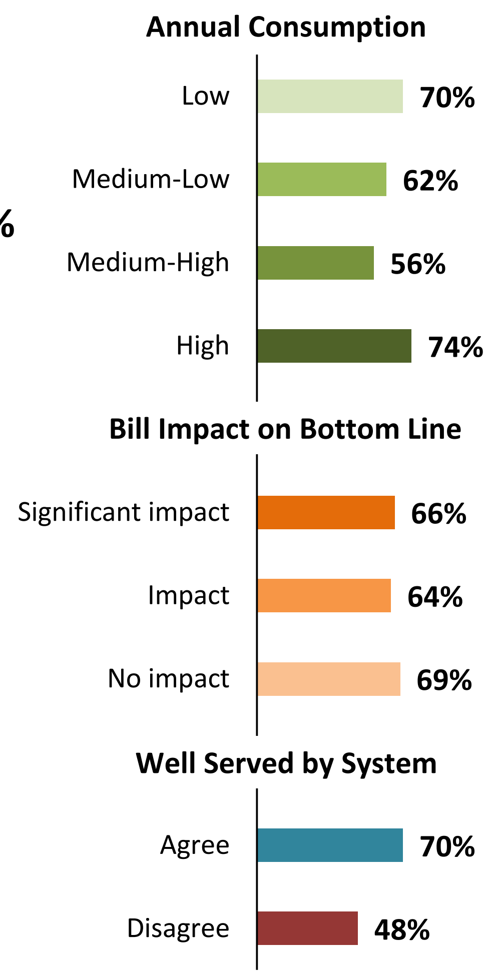
*Those who say "**invest what it takes to maintain system reliability**":*



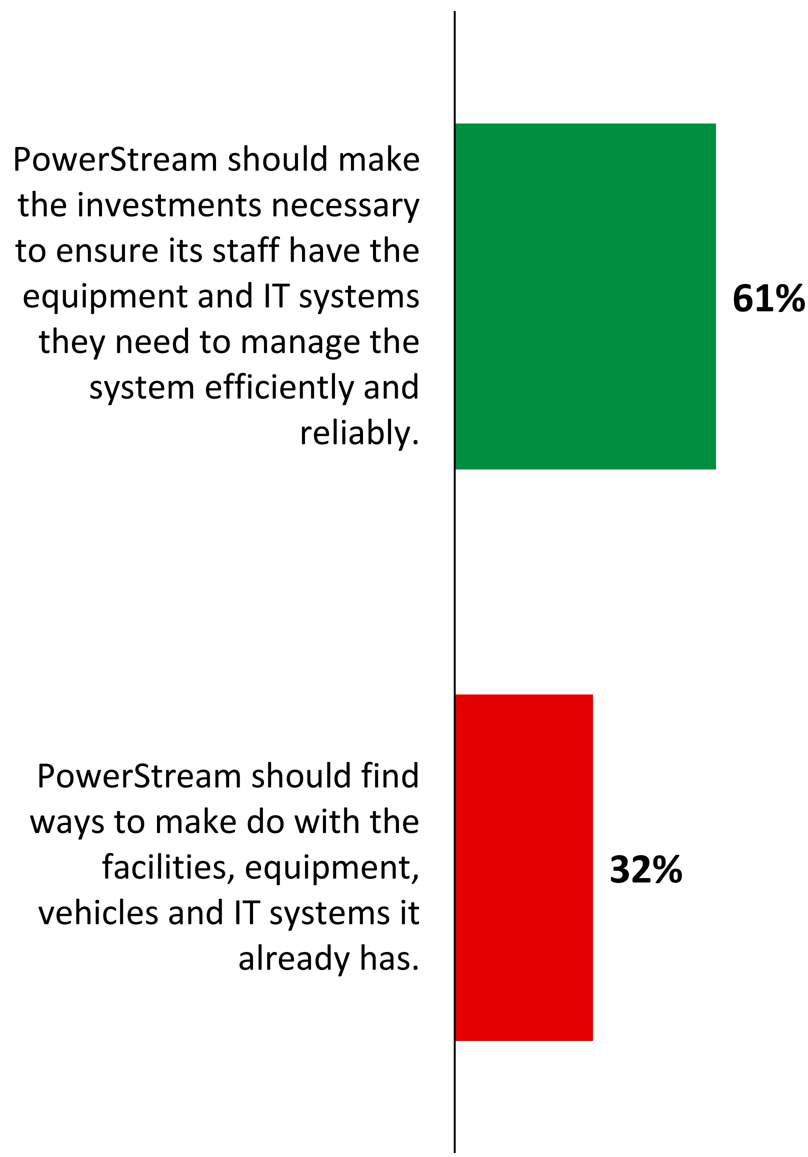
Note: 'Don't know' (5%), 'Refused' (3%) not shown.

General Plant Investments

Mid-Sized Business

Q As a company, PowerStream needs facilities to house staff and equipment, vehicles and tools to service electrical infrastructure, and IT systems to manage the distribution system and customer information..

Which of the following statements best represents your point of view?
[asked all respondents, n=200]



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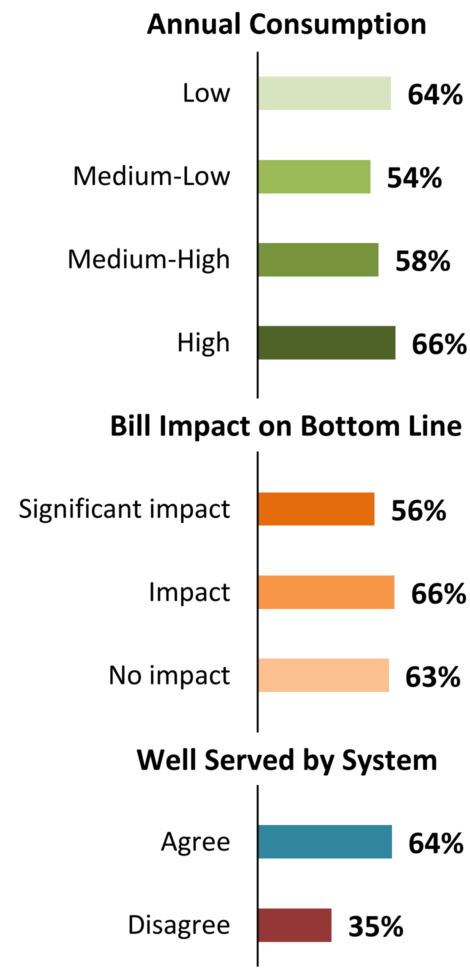

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Note: 'Don't know' (7%), 'Refused' (1%) not shown.

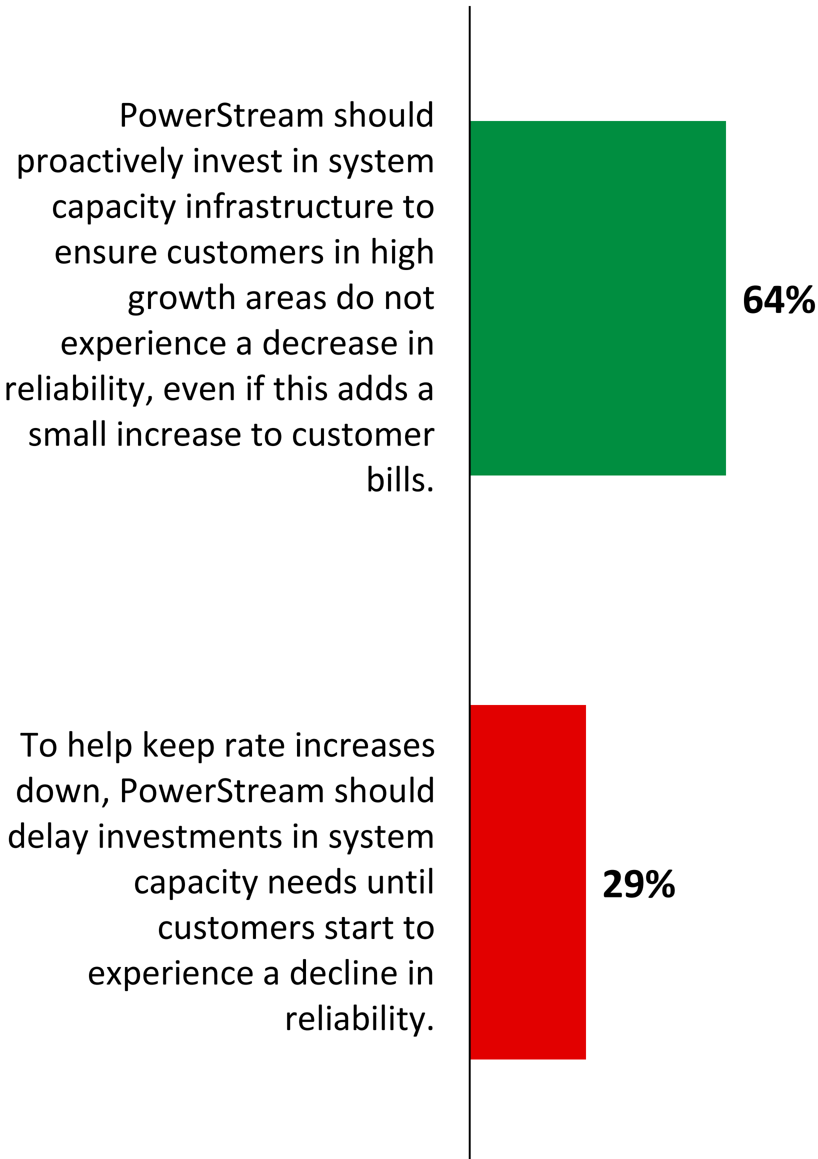
System Service Investments

Mid-Sized Business

Q With growth in various parts of the PowerStream service area comes greater demand for electricity. This increased demand for electricity puts increased pressure on the existing electrical infrastructure. Eventually, further infrastructure investments will be required to support increased demand for electricity.

With this in mind, which of the following statements best represents your point of view?

[asked all respondents, n=200]



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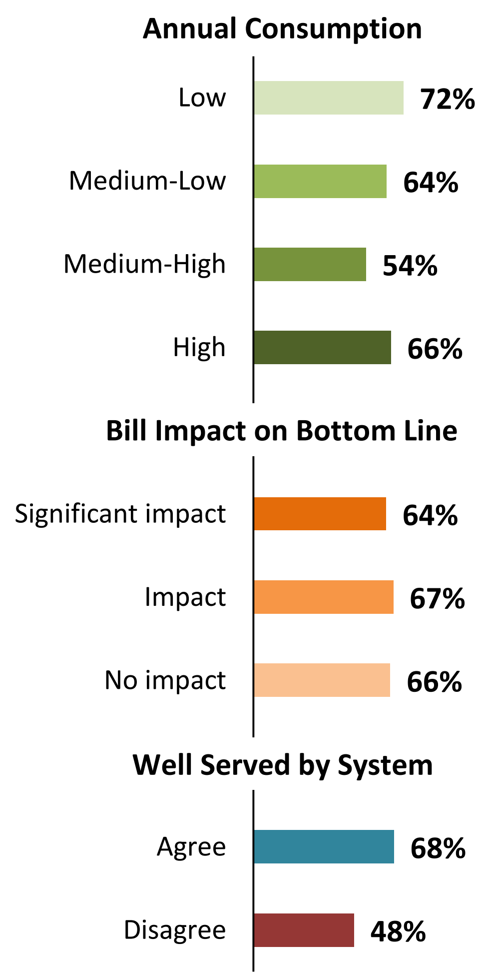

INNOVATIVE RESEARCH GROUP

Note: 'Don't know' (4%), 'Refused' (4%) not shown.

Modernizing the Distribution System

Mid-Sized Business

Q There are new technologies that PowerStream can implement such as microgrids, electricity storage, and automatic switches that can give customers more choices, improve reliability or reduce the impact on the environment.

These investments would create a better grid, but are not required to maintain the reliability that you experience today.

Which of the following statements best represent your point of view?
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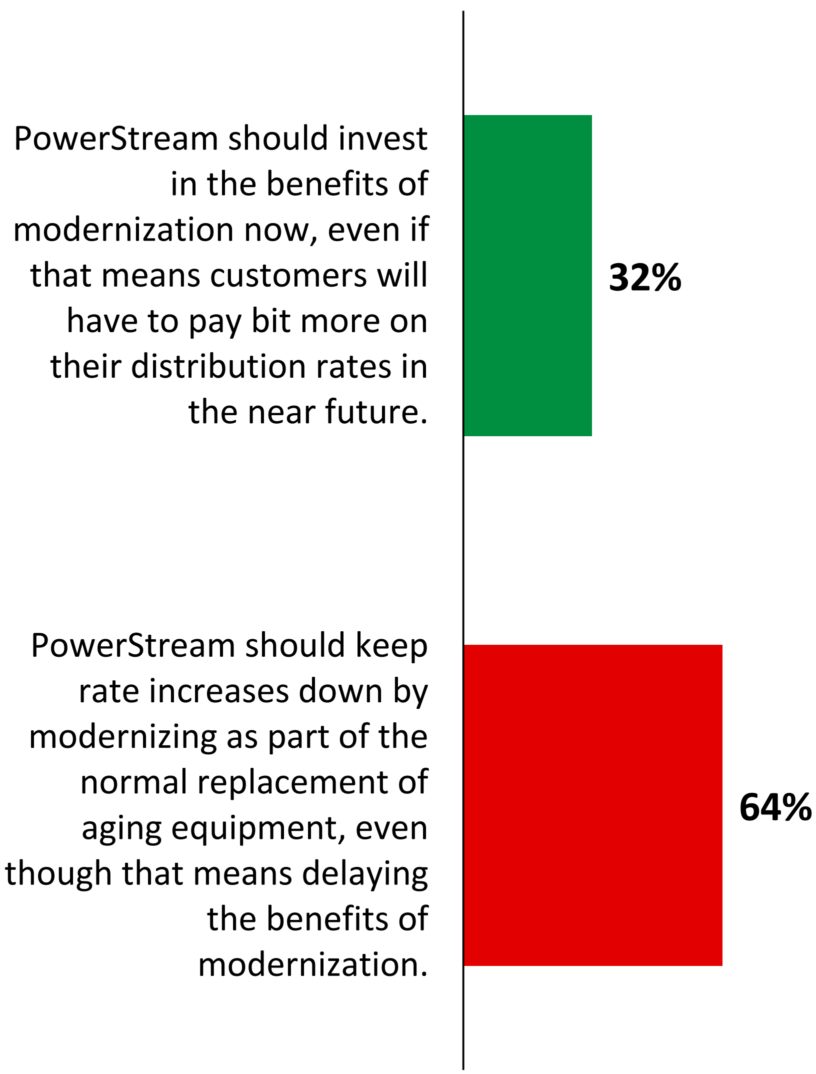
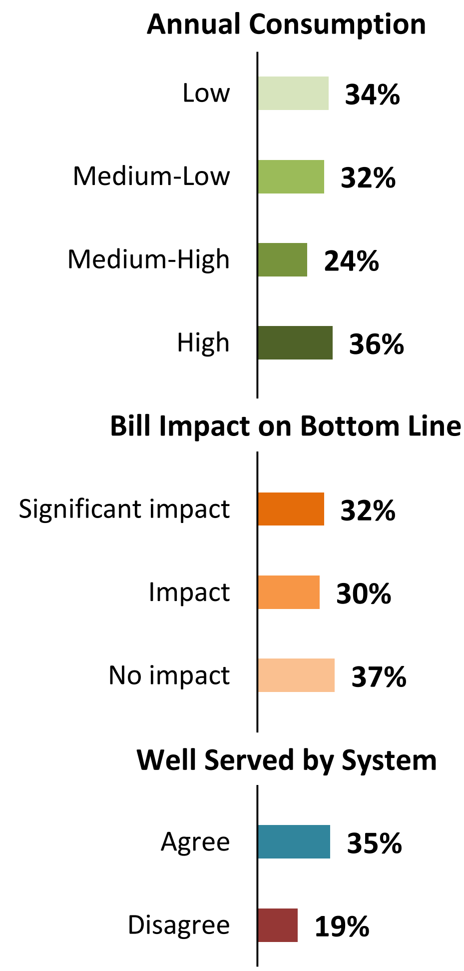


Segmentation
*Those who say "**invest in modernization now**":*



Note: 'Don't know' (3%), 'Refused' (2%) not shown.

Familiarity with OEB “Cost Saving” Requirements

Mid-Sized Business

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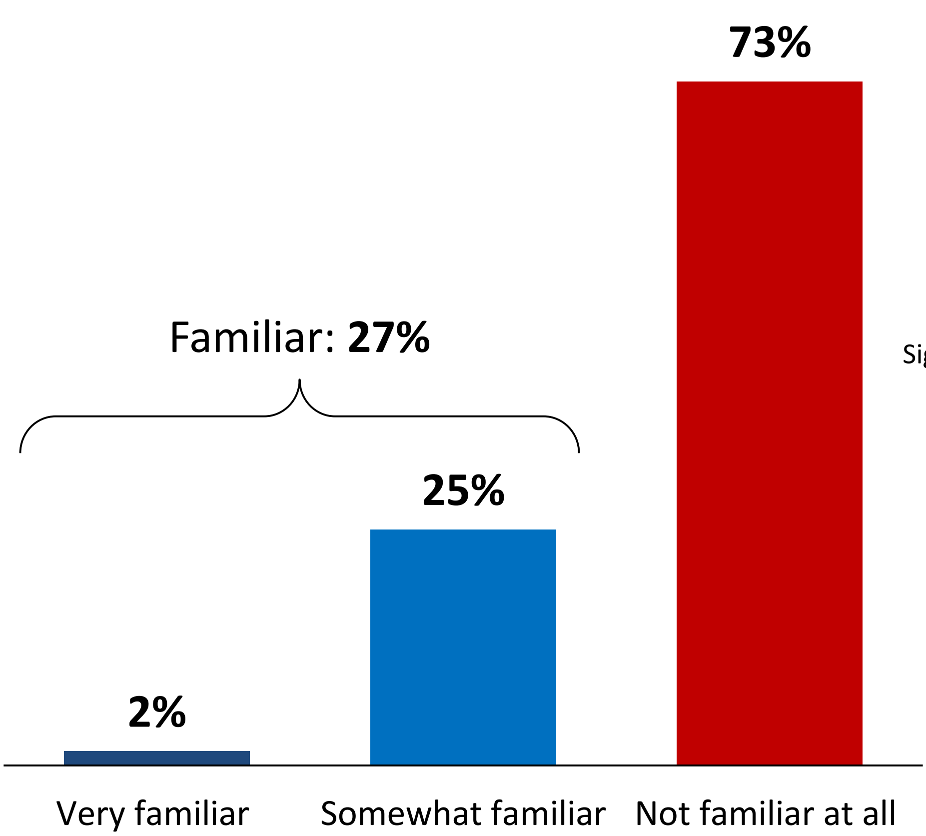
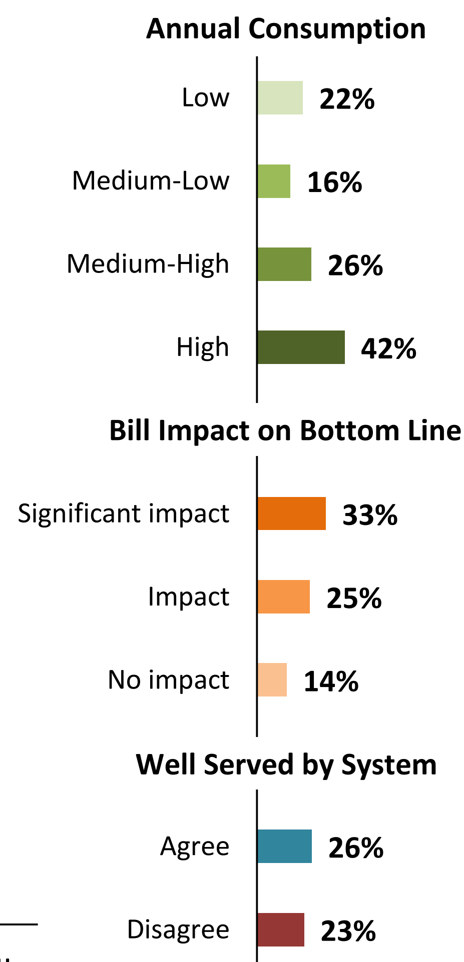
Before this survey, how familiar were you with the OEB requirement for PowerStream to find savings every year?
[asked all respondents, n=200]



Segmentation

*Those who say “**Familiar**”:*



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Note: ‘Don’t know’ (1%), ‘Refused’ (1%) not shown.

ICM Rate Impact Preamble

Mid-Sized Business

“Now let’s turn to our final topic – possible new projects. As part of the OEB policies, there is an option for PowerStream to apply for additional rate increases for discrete projects that are prudent, needed and not supported by existing rates. Looking ahead to 2019, PowerStream has identified three projects that need more investment than the existing budget allows.

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The second project involves relocating poles and wires as part of the York Region Rapid Transit VIVA bus projects. There are no major design choices in this project.”

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Bathurst Street Road Widening Preamble

Mid-Sized Business

"The third project involves relocating both overhead and underground wires and supporting equipment as part of the Bathurst Street road widening from Highway 7 to Teston road.

Powerstream has two options for this project. It can [ROTATE]:

- *move the current mix of overhead and underground wires and equipment at a cost of $5.5 million dollars, OR*
- *replace the overhead system with an underground system for better protection against weather and collisions from vehicles at a cost of between $25 and $35 million dollars."*

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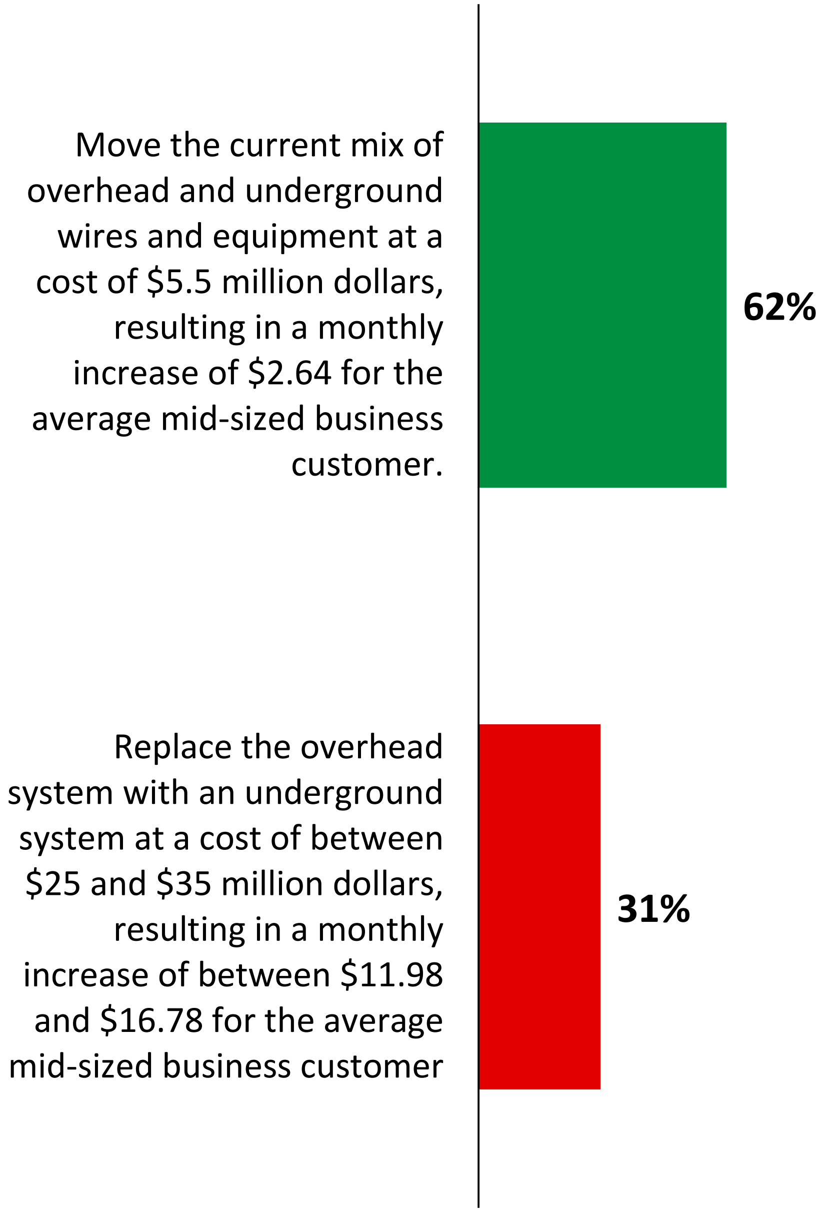
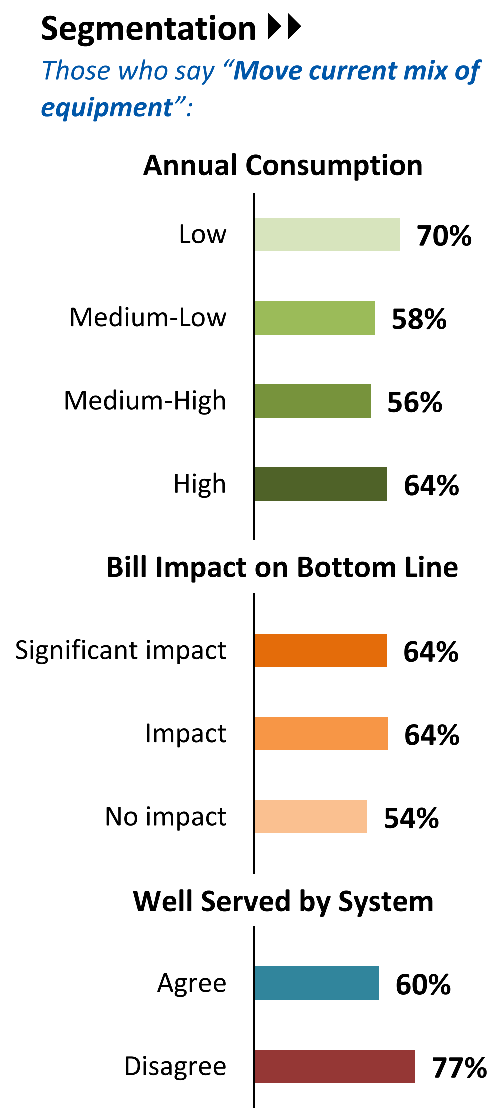
Bathurst Street Road Widening

Mid-Sized Business

Q Given earlier customer feedback emphasizing the need to keep rate increases down, PowerStream is currently planning on taking the first option - to move the current mix of overhead and underground wires and equipment

Which option do you prefer?
[asked all respondents, n=200]





Note: 'Don't know' (6%), 'Refused' (2%) not shown.

Opinion of Proposed ICM Rate Impact

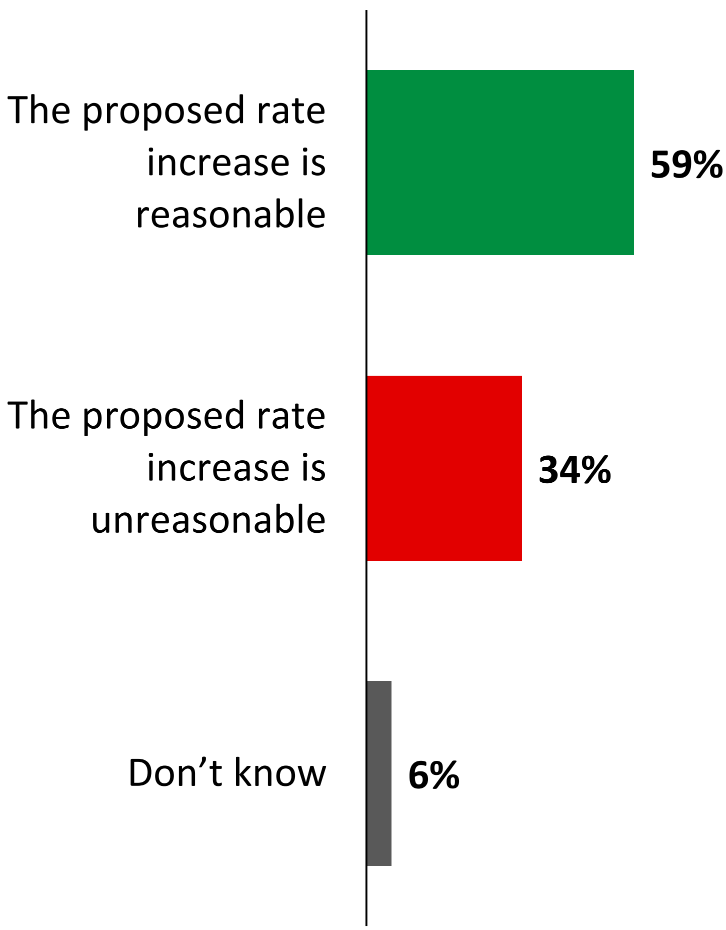
Mid-Sized Business

Q As I mentioned earlier, each year PowerStream is permitted to increase rates to reflect inflation minus a stretch factor which requires PowerStream to find savings to keep cost increases below inflation. In order to maintain the existing plan to replace aging infrastructure and complete the mandatory projects previously discussed, PowerStream would need to add a $10.03 charge to the typical mid-sized business customers monthly electricity bill, from 2019 to 2026.

That would result in an annual increase of $120.36 each year over the course of the next eight years – *totalling $962.88 over that period.*

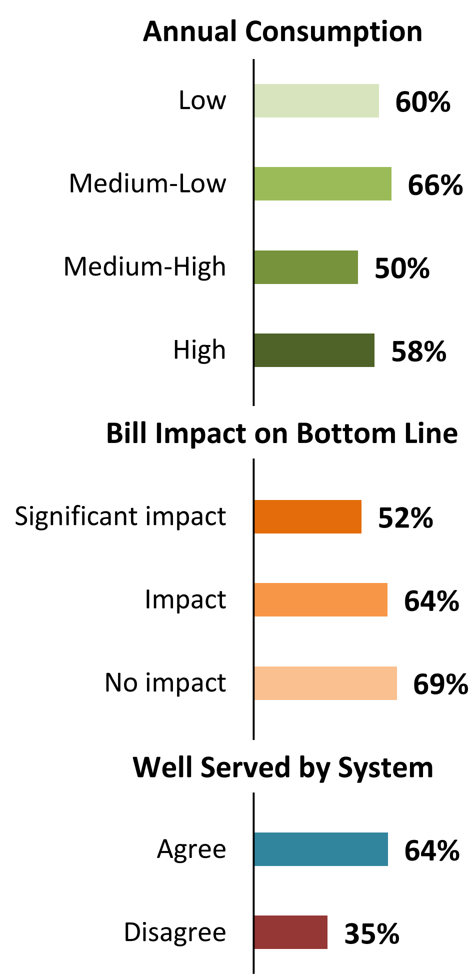
What is your opinion on this proposed rate increase in 2019?

[asked all respondents, n=200]



Segmentation ▶▶

*Those who say "**Rate increase is reasonable**":*



Note: 'Refused' (2%) not shown.

Large Use Customers (2MW+)

Custom Online Survey: *Methodology*

Survey Design

These are the findings of an **Innovative Research Group** (INNOVATIVE) online survey conducted among **Large Use customers (2MW+) in the PowerStream rate zone** between May 17 and 29, 2018.

The focus of these surveys was to collect feedback on expectation, needs and preference as well as trade-offs related to DSPs and specific projects brought forward for the purposes of the ICM applications. Each of surveys were customized to reflect the estimated rate impacts for individual Large Users related to specific capital projects in the Enersource rate zone.

Alectra Utilities provided INNOVATIVE with an email contact list consisting of the prime contact for each of its **47 Large Use customers** in the PowerStream rate zone. INNOVATIVE provided each key account contact with a unique URL via an email invitation so that only customers identified by Alectra Utilities were able to complete the survey and complete the survey only once.

Customers were sent <u>three reminder emails</u> to encourage survey participation. In addition, Alectra Utilities staff followed up with customers by telephone to encourage survey participation.

The analysis of this report is based on **13 of 47** Large Use customers in the Enersource rate zone (**a survey completion rate of 28%**).

Individual Large Use customers responses were anonymous and no identifiable respondent information was shared with Alectra Utilities. Responses were combined to protect the confidentiality of individual Large Users.

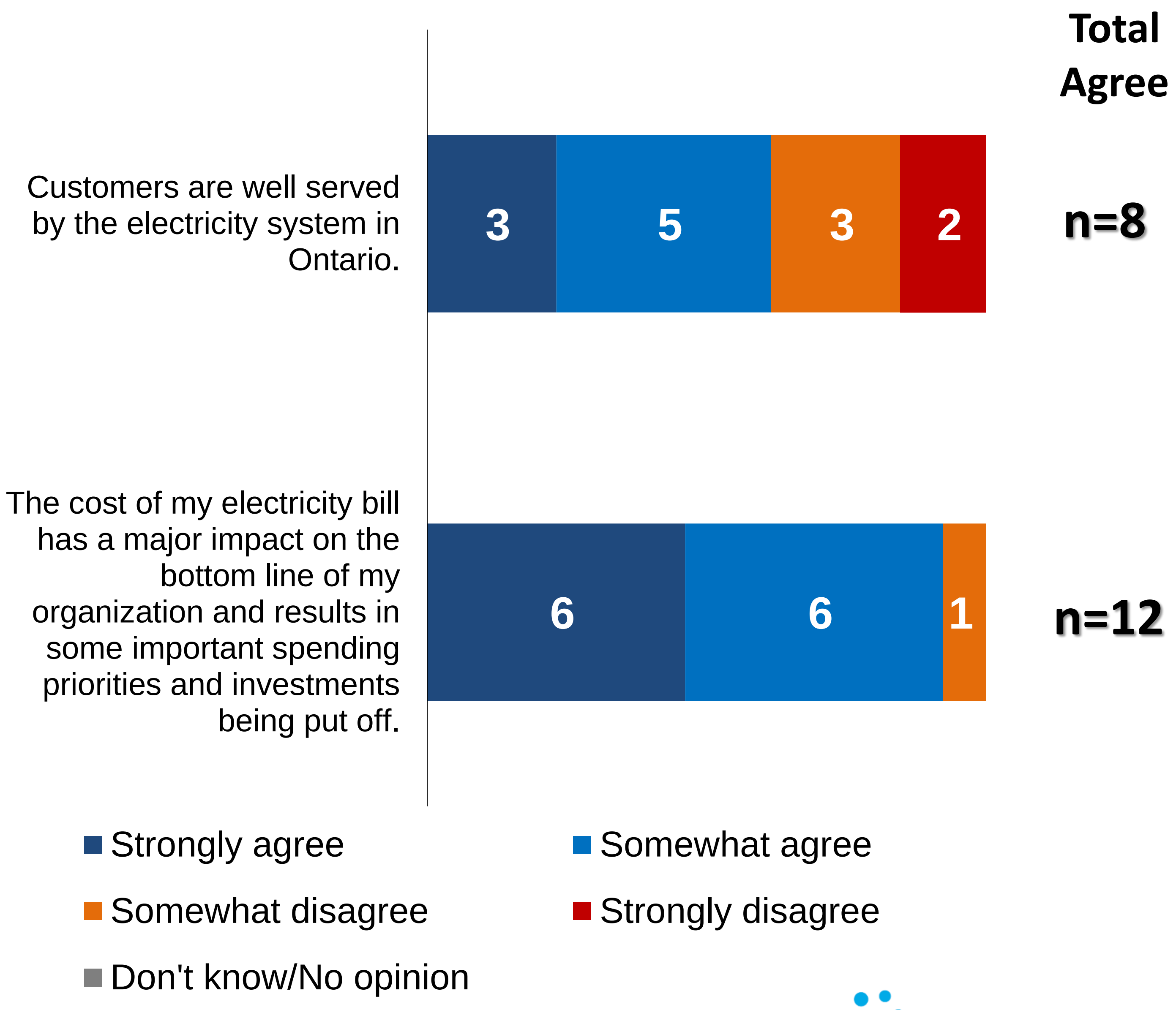
Note: *Graphs and tables may not always total 100% due to rounding values rather than any error in data. Sums are added before rounding numbers. Caution interpreting results with small n-sizes.*

Segmentation & Firmographics

Large Use (2MW+)

Q For each statement please tell me if you would strongly agree, somewhat agree, somewhat disagree or strongly disagree. If you don't know enough to say or don't have an opinion just let me know.

[asked all respondents, n=13]

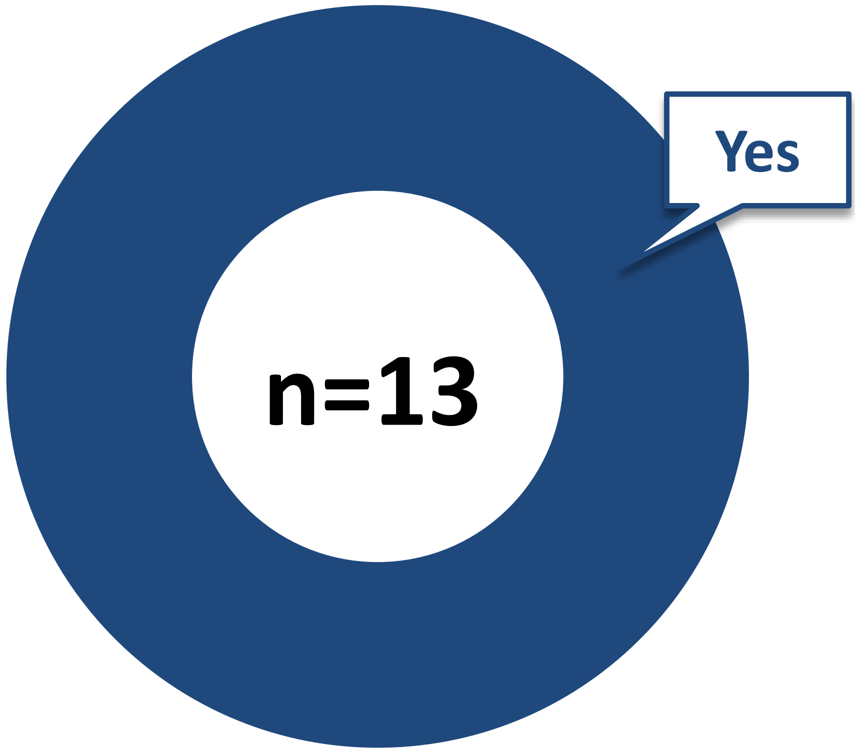


Awareness of Merger

Large Use (2MW+)

Q You may have recently heard that **PowerStream** has merged with neighbouring electricity distributors to form a new company called **Alectra Utilities**.

Had you heard of the Alectra Utilities merger before this survey?
[asked all respondents, n=13]

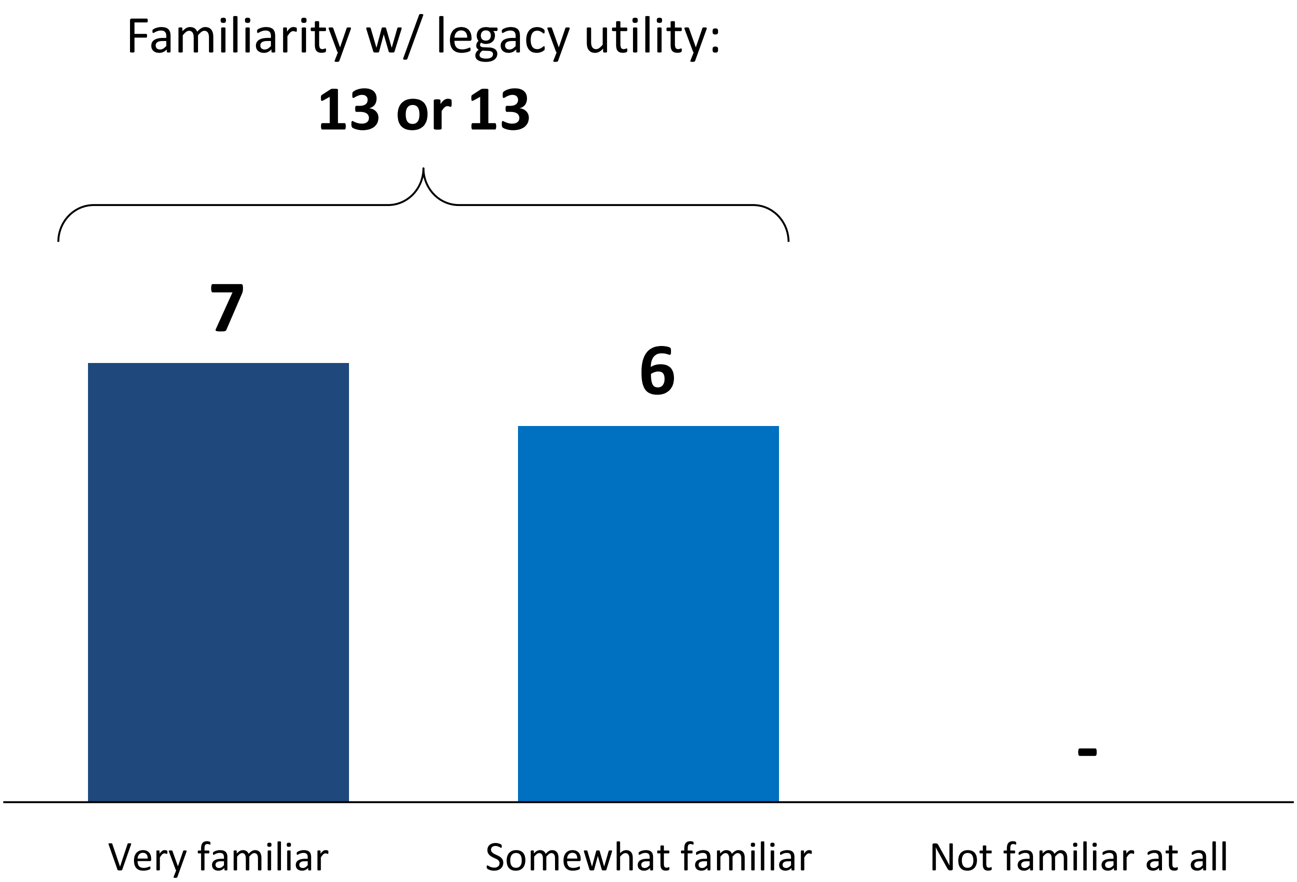


Familiarity with PowerStream

Large Use (2MW+)

Q First, let's talk about your experience. As you may know, **PowerStream** operates and maintains the local electricity distribution system in this area. This is the system that takes the electricity from provincial transmission lines and brings it to your business through a network of wires, poles and other equipment that is owned and operated by **PowerStream**.

How familiar are you with **PowerStream**?
[asked all respondents, n=13]

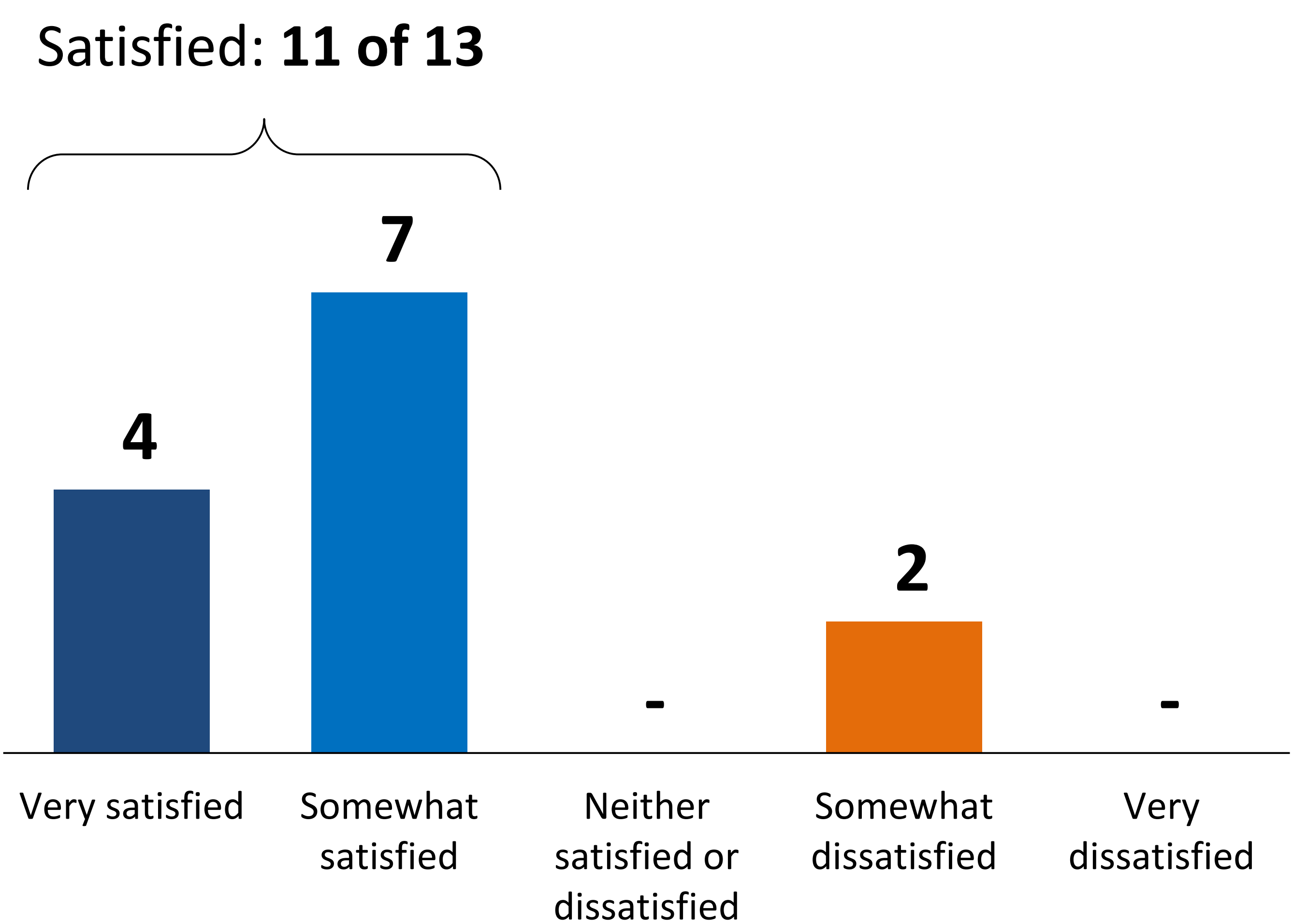


Note: 'Don't know' (0) not shown.

Satisfaction with Services

Large Use (2MW+)

Q In general, how satisfied or dissatisfied are you with the services your organization receives from **PowerStream**? Would you say you are very satisfied, somewhat satisfied, somewhat dissatisfied, or very dissatisfied?
[asked all respondents, n=13]



Note: 'Don't know' (0) not shown.

Suggestions for Improvements

Large Use (2MW+)

Q Is there anything in particular **PowerStream** can do to improve its service to your organization?
[asked all respondents, n=13]

8 of 13 → Nothing/Don't know

Verbatim:

Respondent 1)
a) Keep our power on without any disruptions to our business
b) Update the equipment to avoid disruptions
c) More detailed information from control office during outages
d) Reduce the cost of electricity

Respondent 2)
Provide notice in accordance with the operating agreement

Respondent 3)
Quicker response to power outage conditions. We had one local outage at our pole fuse that took to long to respond too, and we did address this with PowerStream representatives at that time. We never received what we thought was an adequate closure to this incident.

Respondent 4)
Simplify the monthly bill.

Respondent 5)
This improved recently with changes in our account manager. However, previous to this we did not feel Powerstream was responsive with information concerning outages - why it occurred and any corrective action being taken to prevent future recurrences.

INNOVATIVE RESEARCH GROUP

Familiarity with Amount of Electricity Bill Remitted

Large Use (2MW+)

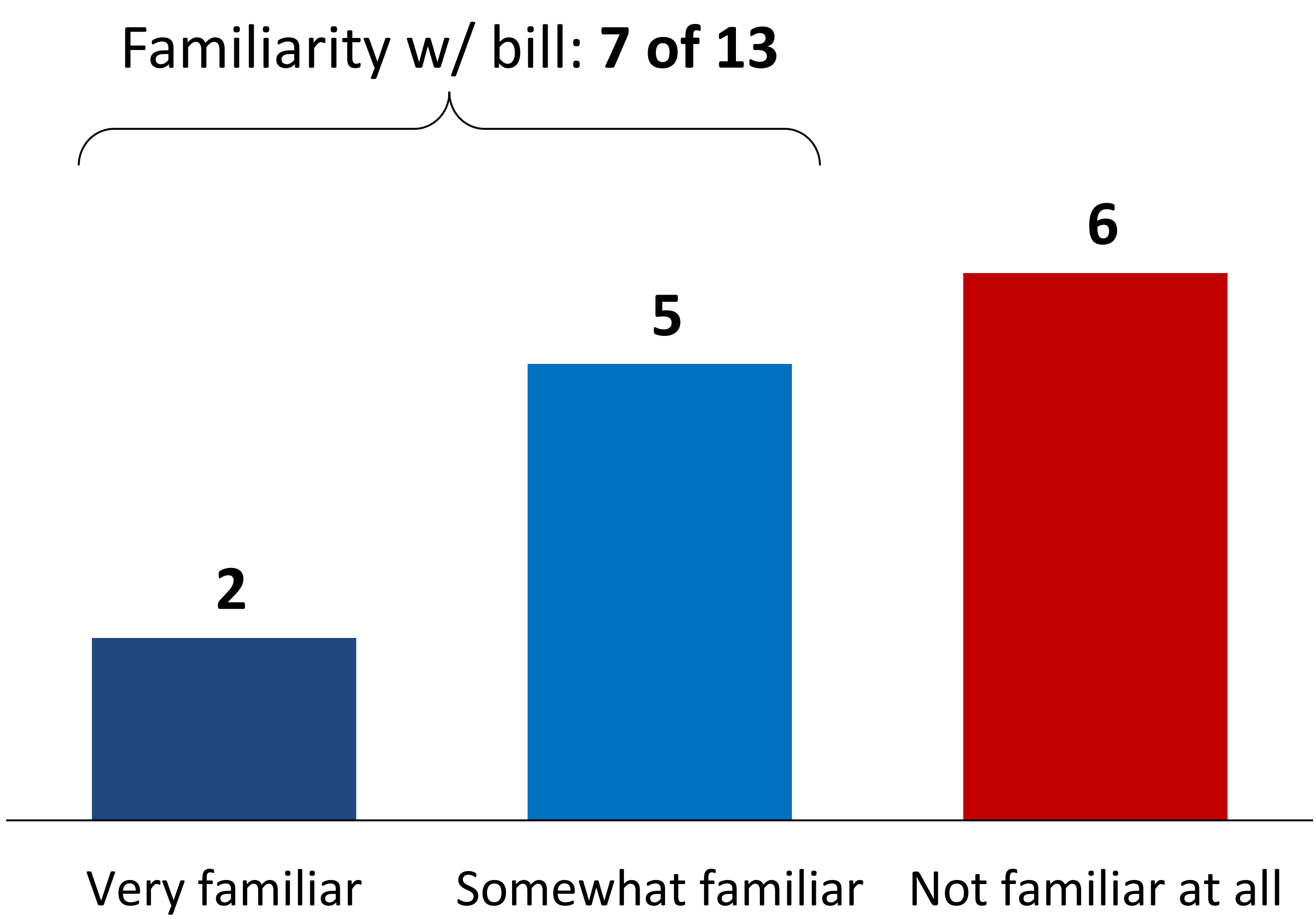
Q

The next question is specifically about [**PIPE**]'s electricity bill.

While **PowerStream** is responsible for collecting payment for the entire electricity bill, they retain about [**PIPE**] of your organization's bill. This is about [**PIPE**] on your average [**PIPE**] monthly electricity bill. The rest of the bill goes to power generation companies, transmission companies, the provincial government and regulatory agencies.

Before this survey, how familiar were you with the percentage of your organization's electricity bill that is retained by **PowerStream**?

[asked all respondents, n=13]



Note: 'Don't know' (0) not shown.

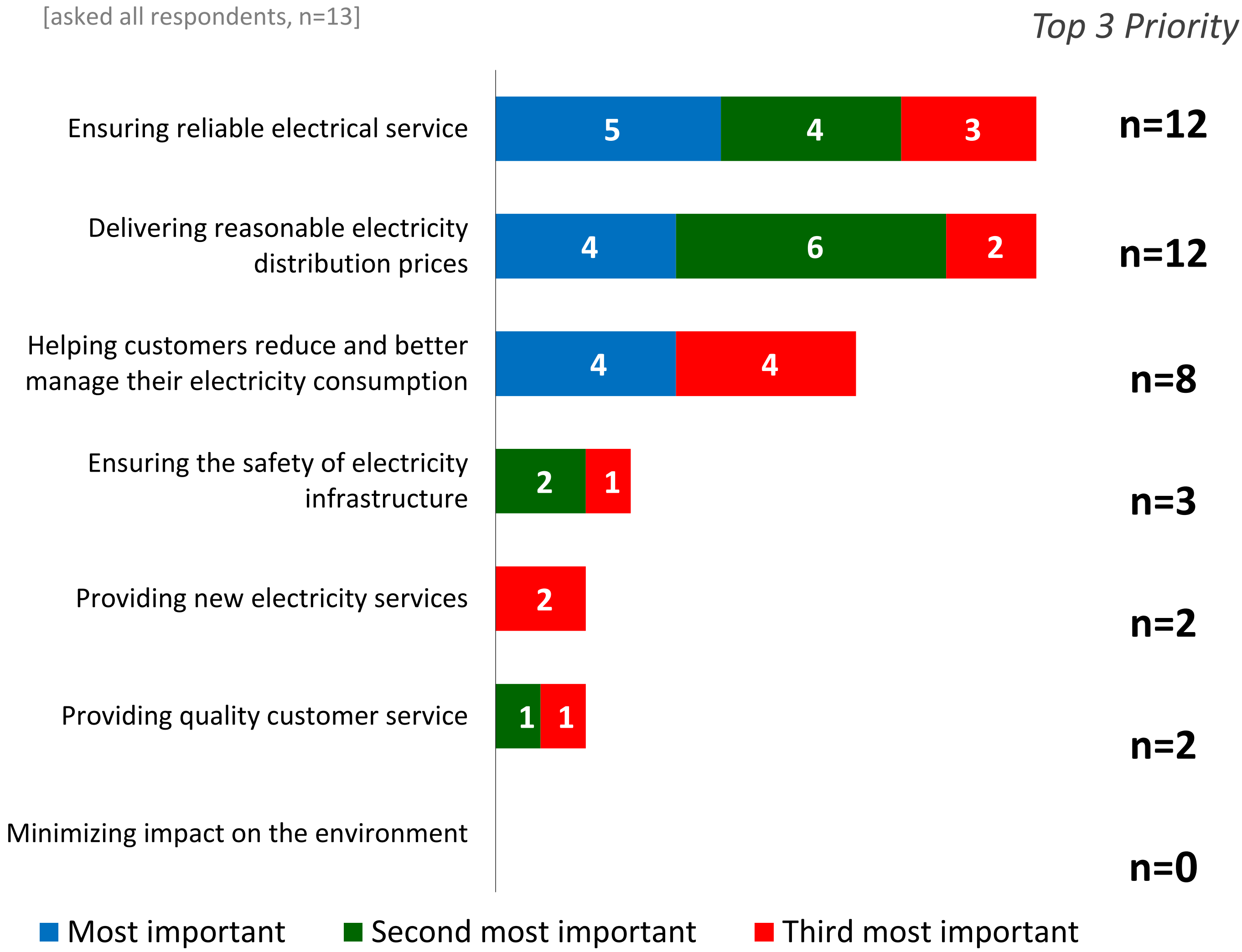
Customer Priorities

Large Use (2MW+)

Q **Now lets turn to our second topic – outcomes.** PowerStream regularly holds discussions with its customers to better understand how it should set spending priorities with the money customers pay for service.

In recent conversations with customers, a number of company goals were identified as key priorities for PowerStream.

Among the following PowerStream priorities, please tell me which one is most important to you.
[asked all respondents, n=13]



Note: 'Don't know' (0) not shown.

Additional Priorities

Large Use (2MW+)

Q Are there any other important priorities that PowerStream should be focusing on that weren't included in the previous list I read to you?
[asked all respondents, n=12]

11 of 13 → No/Don't know

Verbatim:

Respondent 1)
Just help us reduce the global adjustment part of the bill.

Respondent 2)
This is a very good and comprehensive list of priorities

INNOVATIVE RESEARCH GROUP

System Reliability

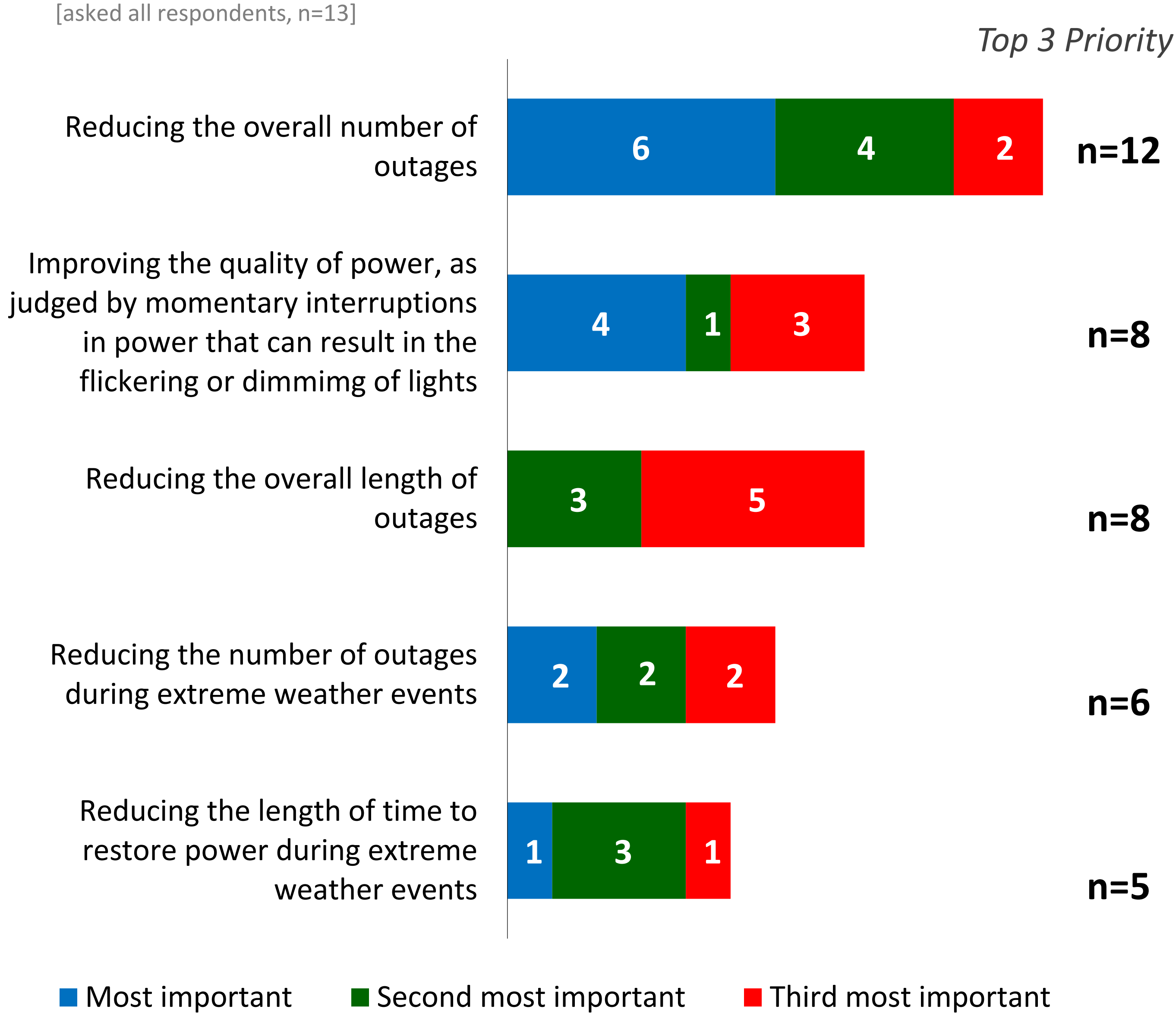
Large Use (2MW+)

We would like to understand your experience with reliability.

There are different outcomes when customers talk about power reliability.

Among the following reliability outcomes, please tell me which one is most important to you.

[asked all respondents, n=13]



Note: 'Don't know' (0) not shown.

Familiarity with how Electricity Rates are Set

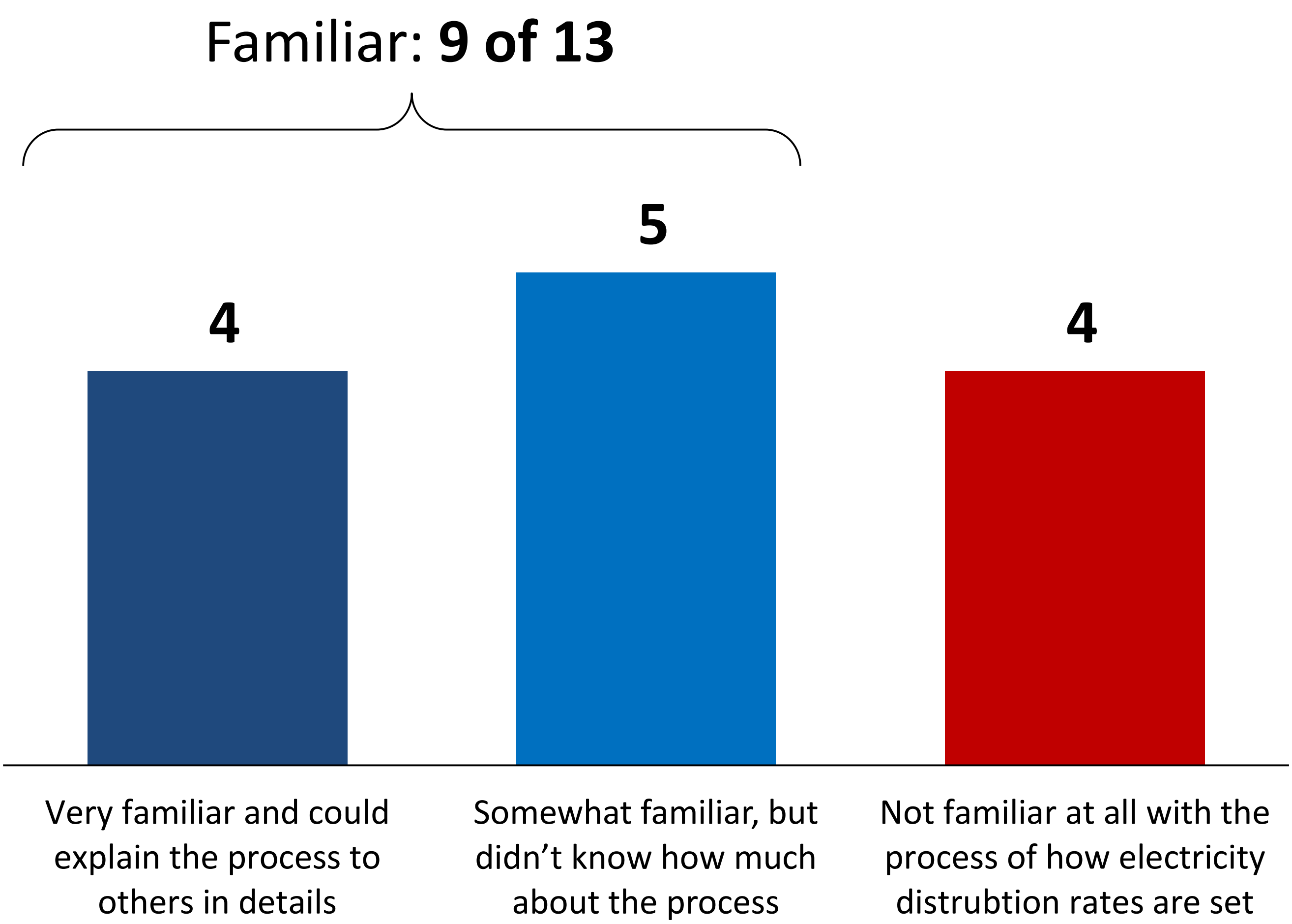
Large Use (2MW+)

Q ***Now, lets turn to our third topic: investment trade-offs***. The electricity industry in Ontario is regulated by the Ontario Energy Board, otherwise known as the OEB. The OEB sets electricity rates in Ontario.

The OEB requires electricity distributors, such as Alectra Utilities, to develop its business plan and distribution system plan, as well as make spending and investment decisions based on customer feedback.

Electricity distributors are funded by the distribution rates paid by their customers. Periodically, distributors are required to file rate applications with the OEB to justify the amount of funding they need to safely and reliably distribute electricity to their customers.

Before this survey, how familiar were you with how electricity distribution rates are set in Ontario? [asked all respondents, n=13]



Note: 'Don't know' (0) not shown.

Investment Trade-Off Preamble

Large Use
(2MW+)

"Alectra Utilities is now starting to create its first overall investment plan as a merged utility. The OEB divides electricity distributor investments into four categories. One category called system access includes investments that are mandatory under the distributor's licence to operate. These include reasonable costs to connect new customers and moving existing infrastructure to accommodate civic improvements.

The spending in the other three categories involves finding the right balance between the impact on your bill and the service you receive. We would now like ask a few questions about your preferences when it comes to finding the right balance between costs and other outcomes.

I want to start by asking you about system renewal, that is the projects that replace aging electrical infrastructure."

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RESEARCH GROUP

Investments in Aging Infrastructure

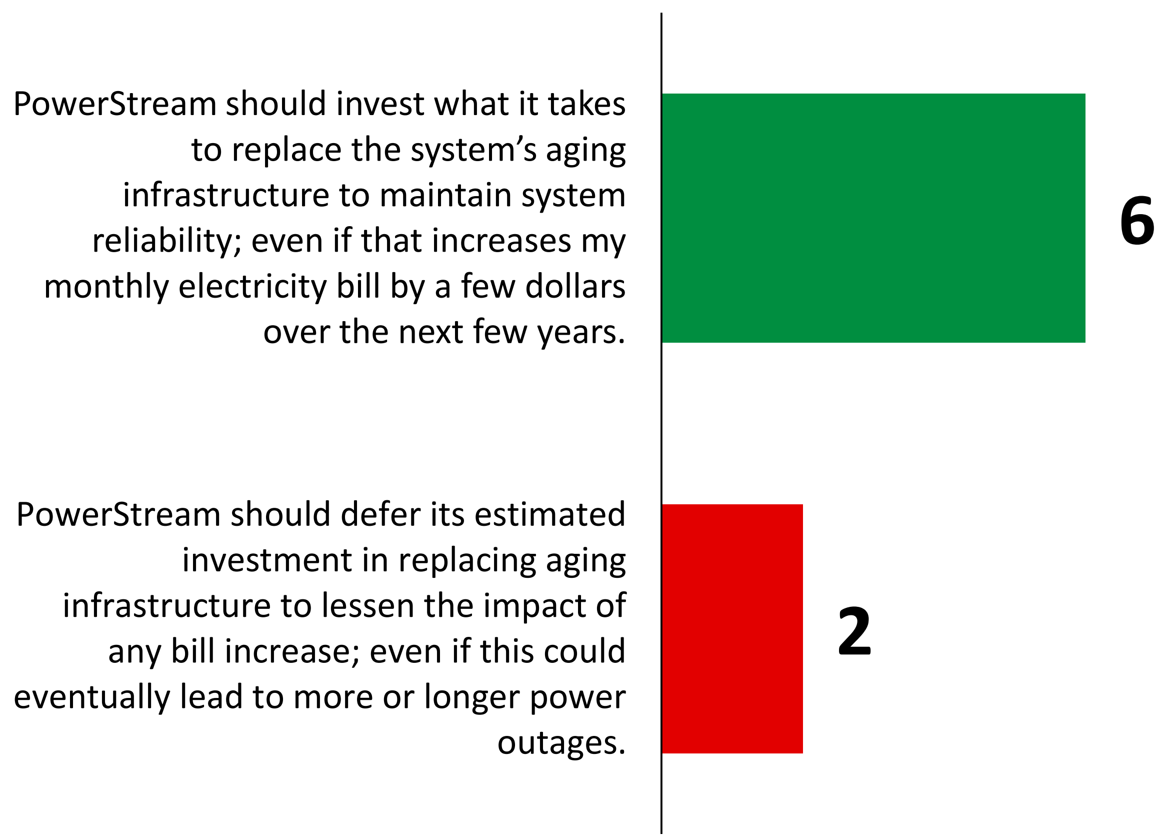
Large Use (2MW+)

Q While PowerStream works hard to prolong the life of the assets that make up its distribution system, eventually these assets reach the end of their useful life and require replacement.

Currently the average customer experiences **1.1 outages a year for an average of 57 minutes**. When adjusted to remove outages due to loss of supply from the transmission system and major storms, **42%** of unscheduled outages are as a result of equipment failure in the PowerStream rate zone.

However, it is not possible to predict exactly when a specific piece of aging equipment will fail. PowerStream must decide the pace at which it replaces this aging equipment.

Which of the following statements best represents your point of view?
[asked all respondents, n=13]



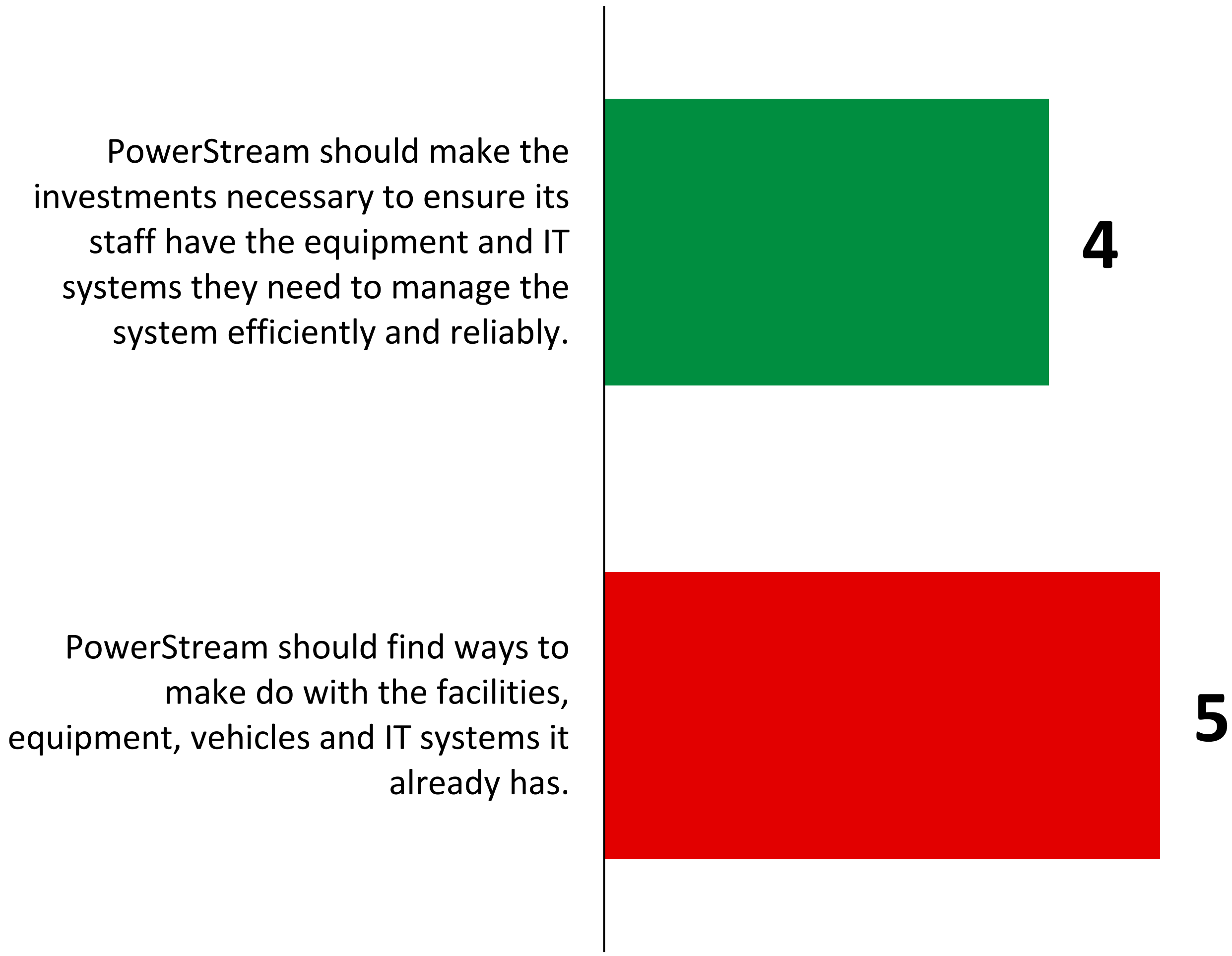
Note: 'Don't know' (n=5) not shown.

General Plant Investments

Large Use (2MW+)

Q As a company, PowerStream needs facilities to house staff and equipment, vehicles and tools to service electrical infrastructure, and IT systems to manage the distribution system and customer information..

Which of the following statements best represents your point of view?
[asked all respondents, n=13]



Note: 'Don't know' (n=4) not shown.

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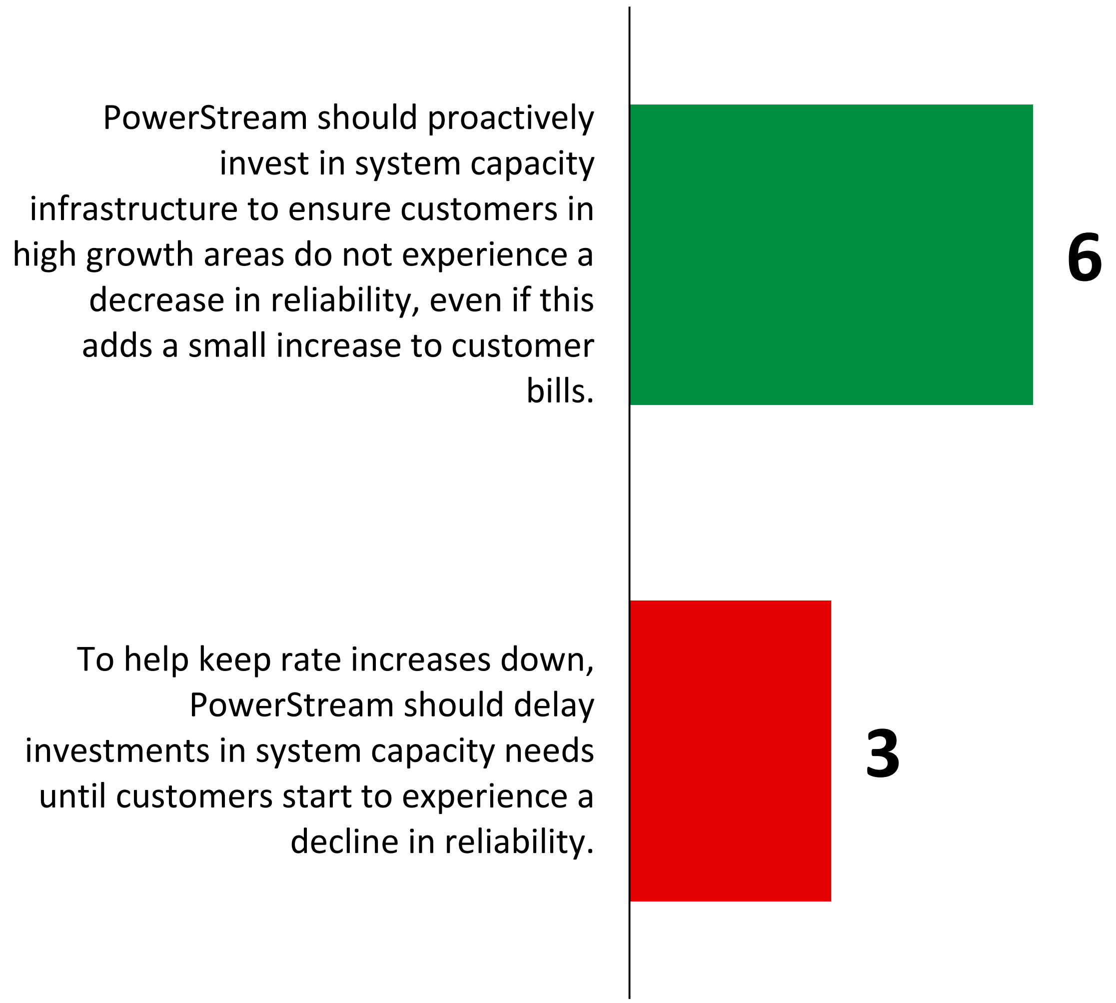
System Service Investments

Large Use (2MW+)

Q With growth in various parts of the PowerStream service area comes greater demand for electricity. This increased demand for electricity puts increased pressure on the existing electrical infrastructure. Eventually, further infrastructure investments will be required to support increased demand for electricity.

With this in mind, which of the following statements best represents your point of view?

[asked all respondents, n=13]



Note: 'Don't know' (n=4) not shown.

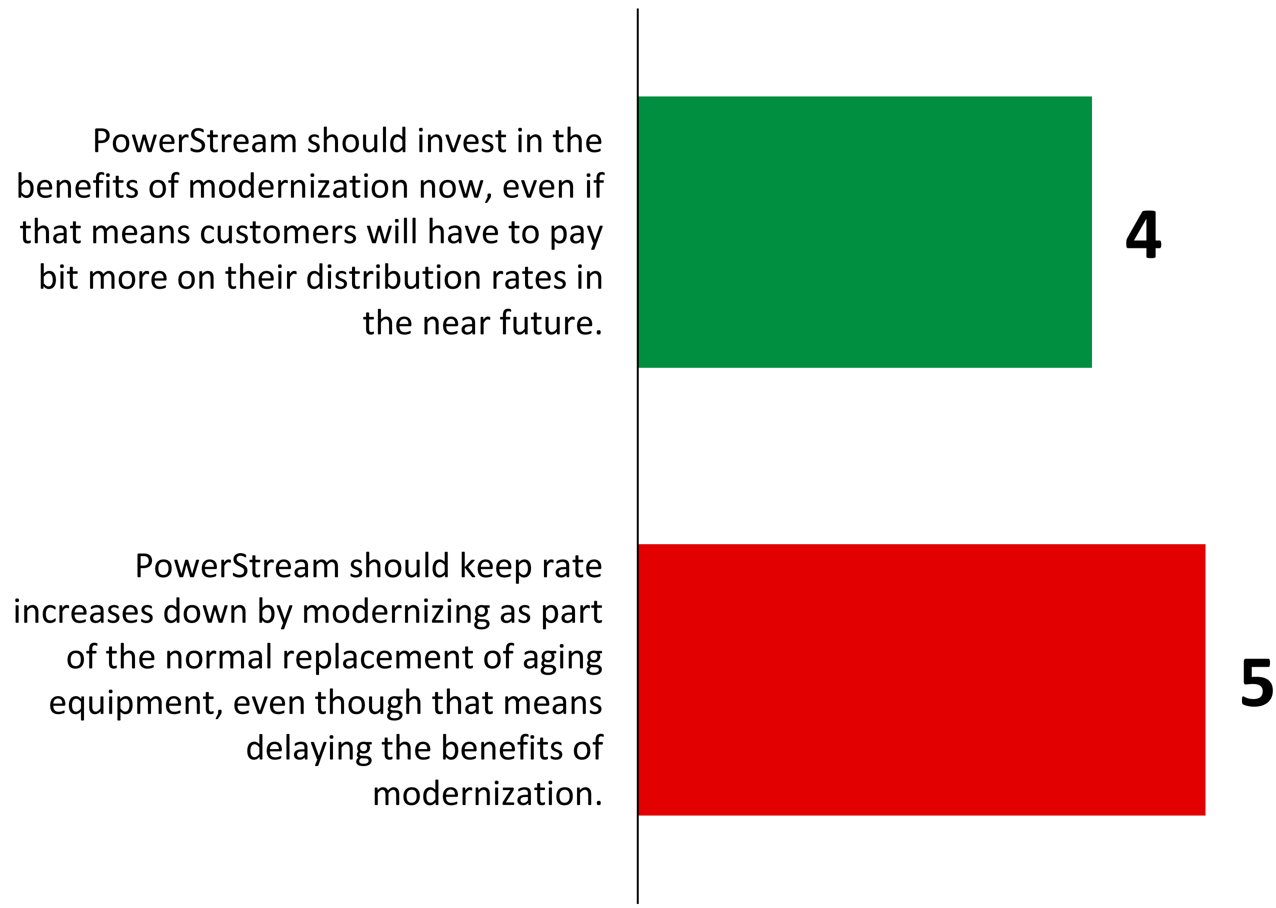
Modernizing the Distribution System

Large Use (2MW+)

Q There are new technologies that PowerStream can implement such as microgrids, electricity storage, and automatic switches that can give customers more choices, improve reliability or reduce the impact on the environment.

These investments would create a better grid, but are not required to maintain the reliability that you experience today.

Which of the following statements best represent your point of view?
[asked all respondents, n=13]



Note: 'Don't know' (n=4) not shown.

Familiarity with OEB "Cost Saving" Requirements

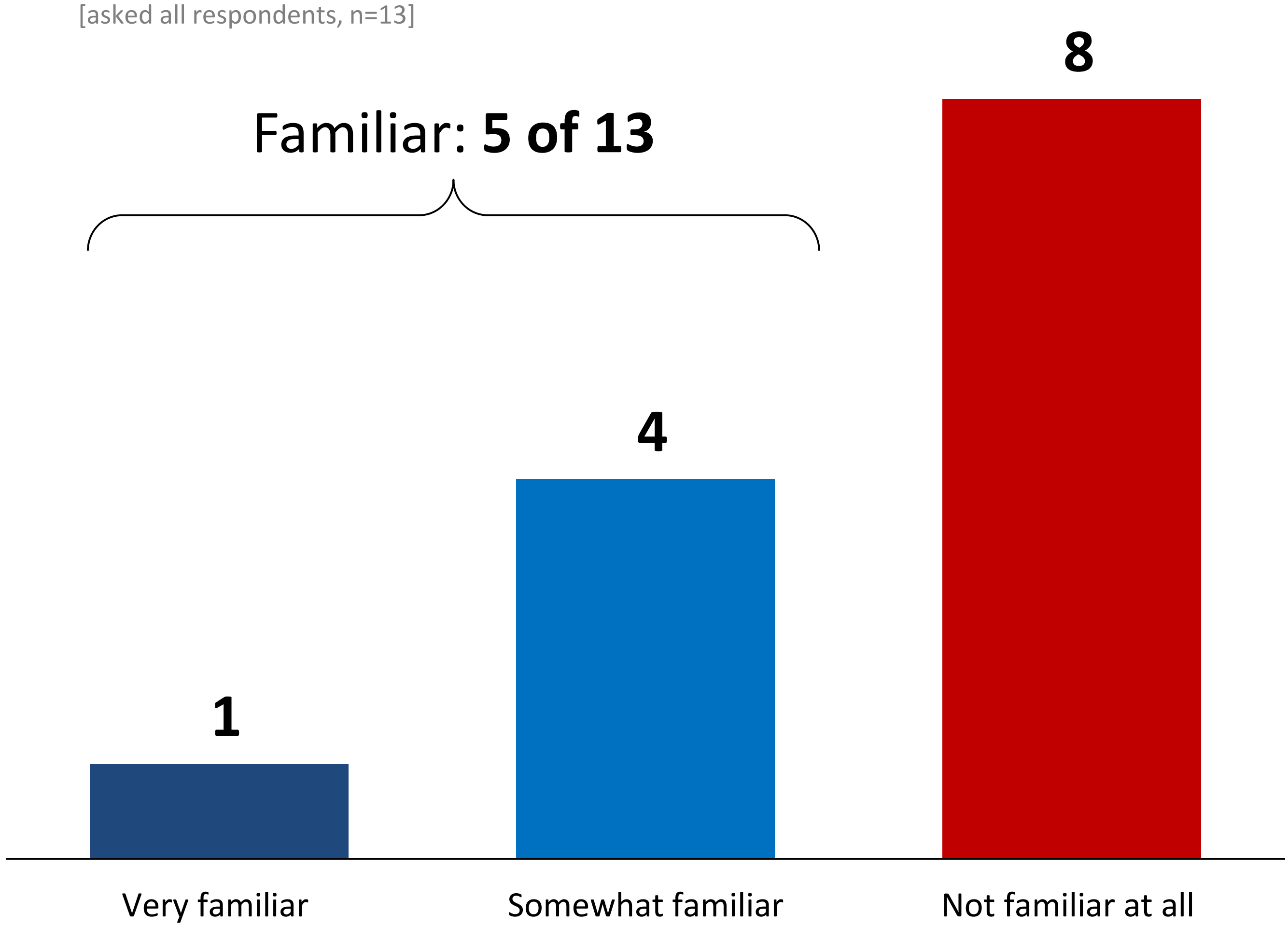
Large Use (2MW+)

Q As we mentioned earlier, the rates you pay to PowerStream are set by the OEB through a public process. PowerStream's current rates were approved in a 2017 application and will be in place until 2027.

Each year PowerStream is permitted to increase rates to reflect inflation minus savings targets established by the OEB which requires PowerStream to keep cost increases below inflation.

Before this survey, how familiar were you with the OEB requirement for PowerStream to find savings every year?

[asked all respondents, n=13]



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Note: 'Don't know' (0) not shown.

ICM Rate Impact Preamble

Large Use (2MW+)

"Now let's turn to our final topic – possible new projects. As part of the OEB policies, there is an option for PowerStream to apply for additional rate increases for discrete projects that are prudent, needed and not supported by existing rates. Looking ahead to 2019, PowerStream has identified three projects that need more investment than the existing budget allows.

One project involves relocating six major feeder lines and the accompanying metering equipment to accommodate the rebuild of a major Transmission substation. PowerStream is using the lowest cost option to complete this project.

The second project involves relocating poles and wires as part of the York Region Rapid Transit VIVA bus projects. There are no major design choices in this project."

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Bathurst Street Road Widening Preamble

Large Use (2MW+)

"The third project involves relocating both overhead and underground wires and supporting equipment as part of the Bathurst Street road widening from Highway 7 to Teston road.

Powerstream has two options for this project. It can [ROTATE]:

- *move the current mix of overhead and underground wires and equipment at a cost of $5.5 million dollars, OR*
- *replace the overhead system with an underground system for better protection against weather and collisions from vehicles at a cost of between $25 and $35 million dollars."*

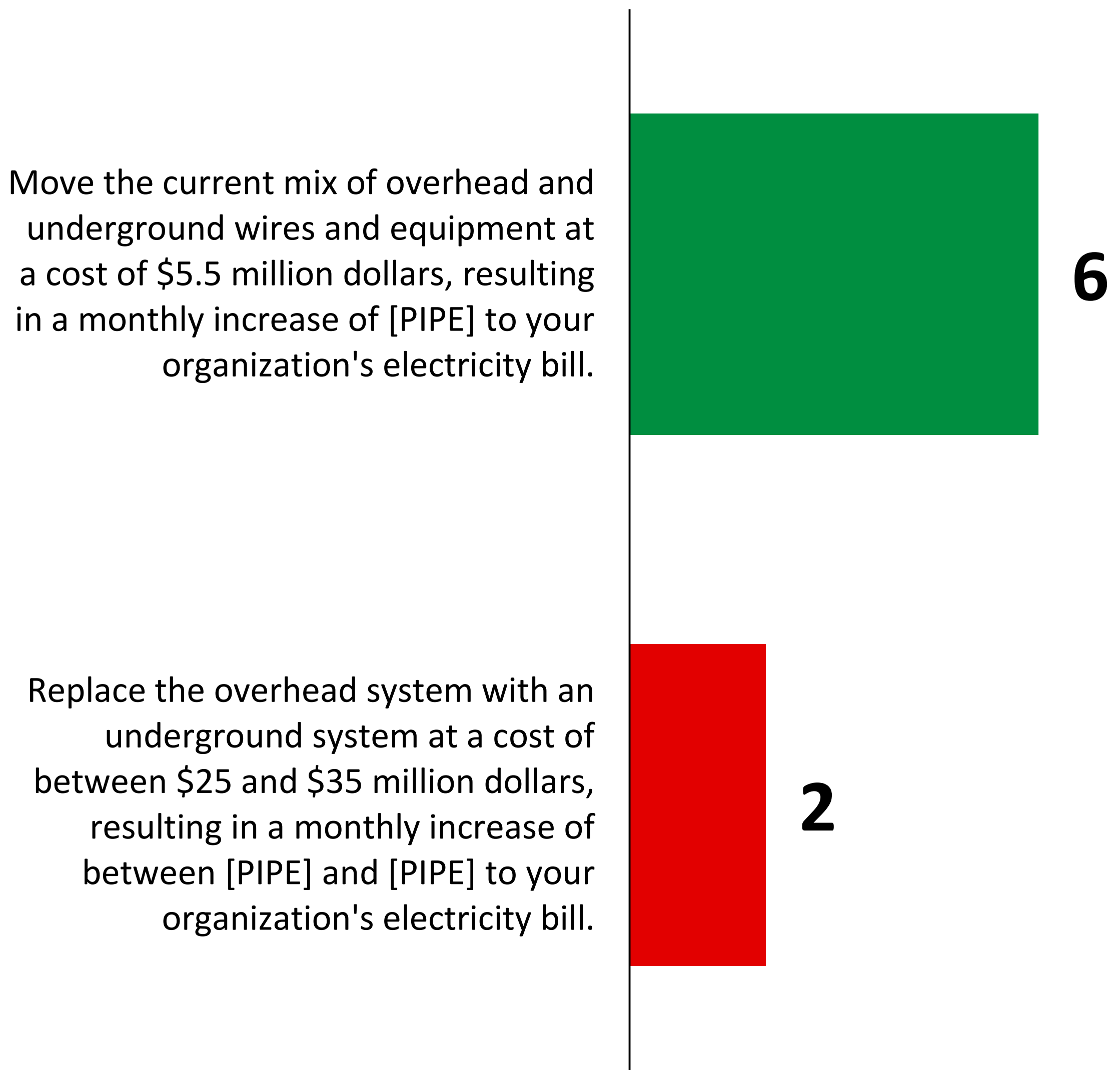
INNOVATIVE RESEARCH GROUP

Bathurst Street Road Widening

Large Use (2MW+)

Q Given earlier customer feedback emphasizing the need to keep rate increases down, PowerStream is currently planning on taking the first option - to move the current mix of overhead and underground wires and equipment

Which option do you prefer?
[asked all respondents, n=13]



Note: 'Don't know' (n=5) not shown.

INNOVATIVE RESEARCH GROUP

Opinion of Proposed ICM Rate Impact

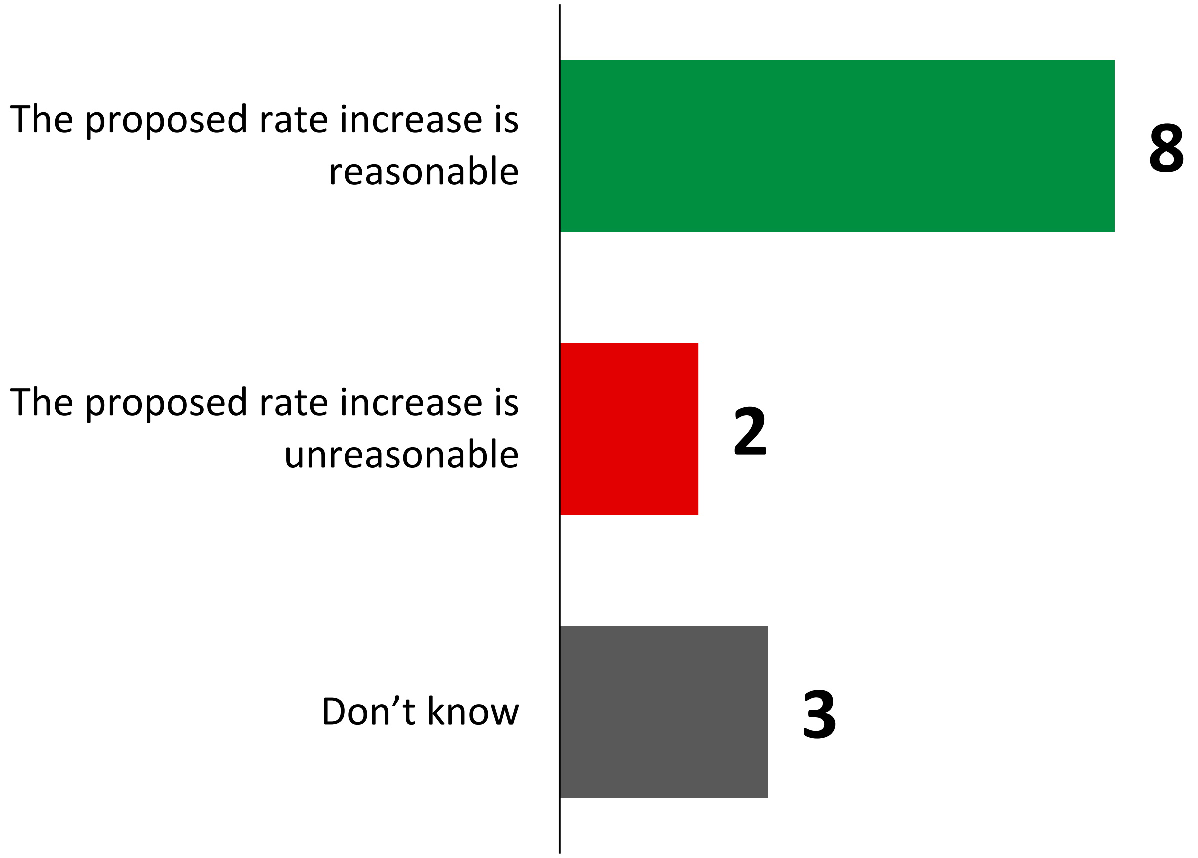
Large Use (2MW+)

Q As I mentioned earlier, each year PowerStream is permitted to increase rates to reflect inflation minus a stretch factor which requires PowerStream to find savings to keep cost increases below inflation.

In order to maintain the existing plan to replace aging infrastructure and complete the mandatory projects previously discussed, PowerStream would need to add a [**PIPE**] charge to the typical mid-sized business customers monthly electricity bill, from 2019 to 2026.

That would result in an annual increase of [**PIPE**] each year over the course of the next eight years – *totalling* [**PIPE**] *over that period.*

What is your opinion on this proposed rate increase in 2019?
[asked all respondents, n=13]



Final Thoughts

Large Use (2MW+)

Q Before this survey concludes, do you have any additional comments or feedback you'd like to share with Alectra Utilities?

Note: all feedback is anonymous and you will <u>not</u> be identified to Alectra Utilities without your expressed permission.

10 of 13 → Nothing/Don't know

Verbatim:

Respondent 1)
PowerStream has been a fantastic resource for energy efficiency ideas.

Respondent 2)
Unfortunately we have many comparable plants in the USA, running on much lower hydro rates. We are, at times, feeling the pinch of our higher rates.

Respondent 3)
When conducting switching operations which affect the redundancy to a site, please ensure the necessary notice - as outlined in the operating agreement - is adhered to. This has not been the case over the last 6 years, with the notice being insufficient.

Building Understanding.

Personalized research to connect you and your audiences.

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Appendix 3.1

Enersource
Residential Ratepayer Survey

2019 ICM Customer Engagement

Date: May 2018

Prepared by:

Innovative Research Group, Inc.
www.innovativeresearch.ca

Vancouver
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Toronto, Ontario | M5E 1A7

Residential Ratepayer Survey

Internal Questionnaire Notes

Method: Telephone, client provided list
Questionnaire Length: TBD
Language: English
Sample Frame: Representative; n=500 residential customers
Calling Times: Weekdays 4-9pm; Saturdays 12noon-9pm; Sundays 12noon-9pm

Sample Variables

1. **Postal Code**
2. **Total Annual Electricity Consumption** *(total consumption between 1-Jan-2017 and 31-Dec-2017)*

The survey will follow a stratified random sampling methodology. This is a method of sampling that involves the division of a population into smaller groups known as strata. In stratified random sampling, the strata are formed based on members' shared attributes or characteristics (in this case, customer service area or electricity usage). A random sample from each stratum is taken in a number proportional to the stratum's size when compared to the customer population. These subsets of the strata are then pooled to form a random sample.

In this survey, customers will be divided into quartiles based on annual electricity usage to ensure the sample has a proportionate mix of customers from low, medium-low, medium-high, and high electricity usage households/low-volume businesses.

The table below illustrates the strata divisions:

Customer Sample Strata Divisions (Quotas):

Customer Type	Total Sample Target	First Quartile	Second Quartile	Third Quartile	Fourth Quartile
Residential	500	125	125	125	125

No regional segmentation.

A. SCREENING AND QUALIFICATIONS

Introduction

Hello, my name is _______________ and I'm calling from **Innovative Research Group** on behalf of **Enersource**, your electricity distributor.

Innovative Research Group is a national public opinion research firm. We have been commissioned by **Enersource** to help them better understand the needs and preferences of customers who are responsible for paying their household's electricity bill.

Enersource– which distributes electricity to homes and businesses in your community – is preparing to submit its investment plan to the Ontario Energy Board for regulatory review. Since this plan will impact your bill, **Enersource** wants to hear from you, so your views can help shape its plan.

A1. Would you mind if I had **10 minutes** of your time to ask you some questions? All your responses will be kept strictly confidential.

1	Yes	**[continue]**
2	No – NOT PRIMARY BILL PAYER	**[go to TRANSFER-1]**
3	No – BAD TIME	**ARRANGE CALLBACK**
4	No – HARD REFUSAL	**[Terminate]**

MONIT
This call may be monitored or audio recorded for quality control and evaluation purposes.

1 PRESS TO CONTINUE

A2. Have I reached you at your home phone number?

1	Yes – SPEAKING, CONTINUE	**[continue to A3]**
2	No – AT OFFICE or WORKPLACE	**[continue to A3]**
3	No – on cellular or mobile phone	[skip to CELL]
99	Refused – LOG (THANK AND TERMINATE)	**[Terminate]**

CELL. Are you currently operating a car, truck or other motor vehicle?

1	YES	ARRANGE CALLBACK
2	NO	[continue to A3]
98	Refused – LOG (THANK AND TERMINATE)	**[Terminate]**

A3. Are you the person primarily responsible for paying the electricity bill in your household?

1	Yes – I pay the bill	[continue to A4]
2	Yes – shared responsibility	[continue to A4]
3	No	[go to TRANSFER-1]
98	Don't know (DO NOT READ)	**[Terminate]**

TRANSFER-1

Can I speak with the person in your household who usually pays the electricity bill?

1	Yes	[**BACK TO *INTRO***]
2	No – NOT AVAILABLE/BAD TIME	[ARRANGE CALLBACK]
3	No – HARD REFUSAL	[**Terminate**]
98	Don't know (DO NOT READ)	[**Terminate**]

A4. And can you confirm that your household receives an electricity bill from **Enersource**?

1	Yes	[**continue**]
2	No	[**Terminate**]
98	Don't know (DO NOT READ)	[**Terminate**]

GENDER **Note gender by observation:**

1	Male
2	Female

B. GENERAL SATISFACTION

B5. You may have recently heard that **Enersource** has merged with neighbouring electricity distributors to form a new company called **Alectra Utilities.**

Had you heard of the **Alectra Utilities** merger before this survey?

01	Yes
02	No
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

B6. Regardless of whether you've heard of the recent merger or not, today I'm going to use the old name "Enersource".

So, throughout this survey, references to "**Enersource**" simply refers to the distribution system in Mississauga, formerly served by **Enersource**, now being served by **Alectra Utilities.**

Today we'd like to talk to you about four things. First, we will talk about your experience with Enersource. Second, we will talk about the outcomes that matter most to you. Third, we will talk about some trade-offs in planning future investments. And finally, we will talk about some projects that Enersource could undertake in the next year.

B7. First, let's talk about your experience. As you may know, **Enersource** operates and maintains the local electricity distribution system in Mississauga. This is the system that takes the electricity from provincial transmission lines and brings it to your home through a network of wires, poles and other equipment that is owned and operated by **Enersource.**

How familiar are you with **Enersource**? Would you say you are *very familiar*, *somewhat familiar*, or *not familiar at all*?

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

B8. In general, how satisfied or dissatisfied are you with the services you receive from **Enersource**? Would you say you are *very satisfied, somewhat satisfied, somewhat dissatisfied, or very dissatisfied*?

01	Very satisfied
02	Somewhat satisfied
03	Neither satisfied or dissatisfied
04	Somewhat dissatisfied
05	Very dissatisfied
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

B9. Is there anything in particular **Enersource** can do to improve its service to you? [**OPEN**]

98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

B10. I'd now like to talk with you about your electricity bill …

While **Enersource** is responsible for collecting payment for the entire electricity bill, they retain about **23%** of the typical residential customer's bill. This is about **$25.02** on an average **$108.48** monthly residential electricity bill. The rest of the bill goes to power generation companies, transmission companies, the provincial government and regulatory agencies.

Before this survey, how familiar were you with the percentage of your electricity bill that is retained by **Enersource**? Would you say… [**READ LIST**]

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know
99	Refused (DO NOT READ)

C. CUSTOMER PRIORITIES

C11. READ PREAMBLE

Now lets talk about our second topic – outcomes. **Enersource** regularly holds discussions with its customers to better understand how it should set spending priorities with the money customers pay for service.

In recent conversations with customers, a number of company goals were identified as key priorities for **Enersource**.

C12. Among the following **Enersource** priorities, please tell me which one is most important to you.

[READ OPTIONS; RANDOMIZE LIST]

01	Delivering reasonable electricity distribution prices.
02	Ensuring reliable electrical service.
03	Providing new electricity services (for example: electricity storage and distributed generation such as solar panel installation).
04	Helping customers reduce and better manage their electricity consumption.
05	Minimizing impact on the environment.
06	Ensuring the safety of electricity infrastructure
07	Providing quality customer service
98	Don't Know [DO NOT READ]

C13. What is the next most important priority you think Enersource should focus on? [**If C12=98 Skip to C15**]

[**Remove answer from C11 if asked to read again**]

C14. And what do you consider the third most important priority? [**If C13=98 Skip to C15**]

[**Remove answer from C11 and C12 if asked to read again**]

C15. Are there any other important priorities that **Enersource** should be focusing on that weren't included in the previous list I read to you? [**OPEN**]

98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

D. SYSTEM RELIABILITY

D16. We would like to understand your experience with reliability.

There are different outcomes when customers talk about power reliability.

Among the following reliability outcomes, please tell me which one is most important to you.

01	Reducing the overall number of outages
02	Reducing the overall length of outages
03	Reducing the number of outages during extreme weather events
04	Reducing the length of time to restore power during extreme weather events
05	Improving the quality of power, as judged by momentary interruptions in power that can result in the flickering or dimming of lights
98	Don't Know [DO NOT READ]

D17. What is the next most important reliability outcome for you? [**If D16=98 Skip to E19**]

[**Remove answer from D16 if asked to read again**]

D18. And what do you consider the third most important reliability outcome? [**If D17=98 Skip to E19**]

[**Remove answer from D16 and D17 if asked to read again**]

E. INVESTMENT TRADE-OFFS

How are electricity distribution rates set in Ontario?

E19. *Now, lets turn to our third topic, investment trade-offs.*

The electricity industry in Ontario is regulated by the Ontario Energy Board, otherwise known as the O-E-B. The OEB sets electricity rates in Ontario.

The OEB requires electricity distributors, such as Alectra Utilities, to develop its business plan and distribution system plan, as well as make spending and investment decisions based on customer feedback.

Electricity distributors are funded by the distribution rates paid by their customers. Periodically, distributors are required to file rate applications with the OEB to justify the amount of funding they need to safely and reliably distribute electricity to their customers.

Before this survey, how familiar were you with how electricity distrubtion rates are set in Ontario?

Would you say you are … [**READ LIST**]

01	Very familiar and could explain the process to others in details
02	Somewhat familiar, but didn't know how much about the process
03	Not familiar at all with the process of how electricity distrubtion rates are set
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

ICM intro PREAMBLE

E20. Alectra Utilities is now starting to create it's first overall investment plan as a merged utility. The OEB divides electricity distributor investments into four categories. One category called system access includes investments that are mandatory under the distributor's licence to operate. These include reasonable costs to connect new customers and moving existing infrastructure to accommodate civic improvements.

The spending in the other three categories involves finding the right balance between the impact on your bill and the service you receive. We would now like ask a few questions about your preferences when it comes to finding the right balance between costs and other outcomes.

I want to start by asking you about system renewal, that is the projects that replace aging electrical infrastructure

E21. [**PREAMBLE**]While **Enersource** works hard to prolong the life of the assets that make up **Mississauga's** distribution system, eventually these assets reach the end of their useful life and require replacement. Currently the average customer experiences 1.08 outages a year for an average of **35 minutes and 40 seconds**. When adjusted to remove outages due to loss of supply from the transmission system and major storms, 56% of unscheduled outages are as a result of equipment failure in the Enersource rate zone. However, it is not possible to predict exactly when a specific piece of aging equipment will fail. Enersource must decide the pace at which it replaces this aging equipment.

E22. Which of the following statements best represents your point of view?
[Read and Rotate statements 1 and 2]

01	**Enersource** should invest what it takes to replace the system's aging infrastructure to maintain system reliability; even if that increases my monthly electricity bill by a few dollars over the next few years.
02	**Enersource** should defer its estimated investment in replacing aging infrastructure to lessen the impact of any bill increase; even if this could eventually lead to more or longer power outages.
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

General Plant

E23. As a company, **Enersource** needs facilities to house staff and equipment, vehicles and tools to service electrical infrastructure, and IT systems to manage the distribution system and customer information..

Which of the following statements best represents your point of view?
[Read and Rotate statements 1 and 2]

01	**Enersource** should find ways to make do with the facilities, equipment, vehicles and IT systems it already has.
02	**Enersource** should make the investments necessary to ensure its staff have the equipment and IT systems they need to manage the system efficiently and reliably.
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

System Service Questions

E24. With growth in various parts of Mississauga comes greater demand for electricity. This increased demand for electricity puts increased pressure on the existing electrical infrastructure. Eventually, further infrastructure investments will be required to support increased demand for electricity.

With this in mind, which of the following statements best represents your point of view?

[Read and Rotate statements 1 and 2]

01	To help keep rate increases down, Enersource should delay investments in system capacity needs until customers start to experience a decline in reliability.
02	Enersource should proactively invest in system capacity infrastructure to ensure customers in high growth areas do not experience a decrease in reliability, even if this adds a small increase to customer bills.
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

Modernizing the Distribution System.

E25. **[PREAMBLE]** There are new technologies that **Enersource** can implement such as microgrids, electricity storage, and automatic switches that can give customers more choices, improve reliaiblity or reduce the impact on the environment.

These investments would create a better grid, but are not required to maintain the reliability that you experience today.

Which of the following statements best represent your point of view?
[**READ LIST; rotate 01 and 02**]

01	Enersource should invest in the benefits of modernization now, even if that means customers will have to pay bit more on their distribution rates in the near future.
02	Enersource should keep rate increases down by modernizing as part of the normal replacement of aging equipment, even though that means delaying the benefits of modernization.
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

E26. As we mentioned earlier, the rates you pay to Enersource are set by the OEB through a public process. Enersource's current rates were approved in a 2013 application and will be in place until 2027. Each year Enersource is permitted to increase rates to reflect inflation minus savings targets established by the OEB which requires Enersource to keep cost increases below inflation.

Before this survey, how familiar were you with the OEB requirement for Enersource to find savings every year?

Would you say you are … [**READ LIST**]

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

ICM rate impact

E27. Now let's turn to our final topic – possible new projects. As part of the OEB policies, there is an option for Enersource to apply for additional rate increases for discrete projects that are prudent, needed and not supported by existing rates. Looking ahead to 2019, Enersource has identified two system renewal projects that need more investment than the existing budget allows. System renewal projects are a mix of replacing aging infrastructure and emergency repairs.

Would you like me to repeat the description of system renewal projects, or may I move on?

[IF ASKED TO REPEAT; *"System renewal projects are a mix of replacing aging infrastructure and emergency repairs."]*

01	Repeat	
02	Continue	
98	Don't know (DO NOT READ)	
99	Refused (DO NOT READ)	

Leaky Transformers

E28. One of these projects deals with leaky transformers. Enersource has 25,000 tranformers which are used to reduce the voltage of electricity as it moves from major transmission lines to the lines going into homes and businesses. Earlier this decade, Enersource identified a backlog of almost 4,000 transformers that show signs of leaking. By the end of this year, over 3,000 of these transformers will have been replaced. However, that will still leave over 600 needing replacement.

E29. Which of the following is closest to your point of view regarding Ensource's proposed transformer replacement program? [**READ LIST ; ROTATE 01 and 02**]

01	Enersource should replace leaky transformers as part of its existing renewal plan, even the backlog, even if that means it will take several years before they are all replaced.
02	I am willing to have my bill increased by about 12 cents a month so Enersource can make an extra effort to clean up the backlog of leaky transformers.
98	Don't know (DO NOT READ)

Rometown Overhead

E30. Another proposed project addresses the Rometown area Overhead system. There are 198 poles in this particular system. 68 out of 198 have been flagged as *poor* while another 56 are seen to be in *fair condition*. A total of 78 have been flagged for urgent replacement. This network of poles uses older technologies that will be replaced when the system is eventually rebuilt, but any repairs done today will have to use the older technology. It is more efficient to replace all the poles at once than to replace them one at a time but it costs less in the short run only to replace the poles most in need of repair.

E31. Which of the following is closest to your point of view regarding Ensource's proposed Rometown Overhead system rebuild program? [**READ LIST**]

01	Enersource should continue to operate the Rometown overhead system, and replace equipment reactively as it fails
02	Enersource should proceed now to replace 78 of the 198 poles in the most pressing need resulting in a monthly increase of **3 cents** for the average residential customer
03	Enersource should proceed now to replace all 198 poles at a cost of 3.2 million dollars, resulting in a monthly increase of **5 cents** for the average residential customer
04	Enersource should proceed now to replace the Rometown overhead system with an underground system at a cost of between $12 and 18 million dollars, resulting in a monthly increase of between **19 cents** and **28 cents** for the average residential customer
98	Don't know

E32. As I mentioned earlier, each year Enersource is permitted to increase rates to reflect inflation minus a stretch factor which requires Enersource to find savings to keep cost increases below inflation. In order to reduce the backlog of leaking transformers and to replace the most high risk poles in the Rometown overhead system, Enersource would need to add a **15 cent charge** to the typical residential customers monthly electricity bill, from 2019 to 2026.

E33. That would result in an annual increase of **$1.76 each year** over the course of the next eight years – *totalling $14.11 over that period*.

What is your opinion on this proposed rate increase in 2019? Would you say … [**READ LIST; ROTATE 1 and 2**]

01	The proposed rate increase is reasonable	
02	The proposed rate increase is unreasonable	
98	Don't know (DO NOT READ)	
99	Refused (DO NOT READ)	

F. SEGMENTATION & DEMOGRAPHICS

Lastly, I'd like to ask you some general questions about the electricity system in Ontario.
For each statement please tell me if you would strongly agree, somewhat agree, somewhat disagree or strongly disagree. If you don't know enough to say or don't have an opinion just let me know.

01	Strongly agree
02	Somewhat agree
03	Somewhat disagree
04	Strongly disagree
98	Don't know/ No opinion (DO NOT READ)
99	Refused (DO NOT READ)

[ROTATE]

F34. The cost of my electricity bill has a major impact on my finances and requires I do without some other important priorities.

F35. Customers are well served by the electricity system in Ontario.

[END BATTERY]

These last few questions are for statistical purposes only and I remind you again that all of your responses are completely confidential.

F36. Which of the following age group do you fall into? **READ LIST**

97	Younger than 18
01	18 to 24
02	25 to 34
03	35 to 44
04	45 to 54
05	55 to 64
06	65 or older
99	Refused (DO NOT READ)

F37. Counting yourself, how many people live in your household? [**DO NOT READ LIST**]

01	1 person
02	2 people
03	3 people
04	4 people
05	5 people
06	6 people
07	7 people
08	8 or more people
99	Refused (DO NOT READ)

F38. To the best of your ability, please tell me which of the following categories best describes your household's AFTER TAX income. **READ LIST**

01	Less than $28,000
02	Just over $28,000 to $39,000
03	Just over $39,000 to $48,000
04	Just over $48,000 to $52,000
05	More than $52,000
98	Not sure (DO NOT READ)
99	Refused (DO NOT READ)

THANK and END SURVEY

Thank you very much for taking the time to complete this survey.

Appendix 3.2

Enersource
Small Business Ratepayer Survey

2019 ICM Customer Engagement

Date: May 2018

Prepared by:

Innovative Research Group, Inc.
www.innovativeresearch.ca

Vancouver
888 Dunsmuir Street, Suite 350
Vancouver BC | V6C 3K4

Toronto
56 The Esplanade, Suite 310
Toronto, Ontario | M5E 1A7

Small Business Ratepayer Survey

Internal Questionnaire Notes

Method: Telephone, client provided list
Questionnaire Length: 10 minutes
Language: English
Sample Frame: Representative; n=200 small business (GS < 50 kW) customers
Calling Times: Weekdays 9am-5pm

Sample Variables

1. **Postal Code**
2. **Total Annual Electricity Consumption** *(total consumption between 1-Jan-2016 and 31-Dec-2016)*

The survey will follow a stratified random sampling methodology. This is a method of sampling that involves the division of a population into smaller groups known as strata. In stratified random sampling, the strata are formed based on members' shared attributes or characteristics (in this case, customer service area or electricity usage). A random sample from each stratum is taken in a number proportional to the stratum's size when compared to the customer population. These subsets of the strata are then pooled to form a random sample.

In this survey, customers will be divided into quartiles based on annual electricity usage to ensure the sample has a proportionate mix of customers from low, medium-low, medium-high, and high electricity usage households/low-volume businesses.

The table below illustrates the strata divisions:

Customer Sample Strata Divisions (Quotas):

Customer Type	Total Sample Target	First Quartile	Second Quartile	Third Quartile	Fourth Quartile
GS<50 kW	200	50	50	50	50

No regional segmentation.

A. Screening and Qualifications

Introduction

Hello, may I please speak to the person who is in charge of managing the electricity bill at your organization?

Yes <**speaking**>		**[go to INTRO]**
Yes <**transferred to contact**>		**[go to INTRO]**
No <**not available**>	"When is a good time to callback?	**[record callback time]**
No <**not interested in talking**>		**[THANK & TERMINATE]**

INTRO.

A1. Hello, my name is ______________ and I'm calling from Innovative Research Group on behalf of **Enersource**, your electricity distributor.

Innovative Research Group is a national public opinion research firm. **We need your input on choices that will affect the service you receive from Enersource and the price you pay for that service.** Your answers will be combined with others to protect your privacy.

The survey should take about 10 minutes.

Can I please speak to the person who is in-charge of managing the electricity bill at your organization?

1) Yes, speaking <**contact on the line**>	**[skip to A2]**
2) Yes <**transferred to contact**>	**[skip to A2]**
3) No <**not the right contact person**>	**[GO to "NEW"]**
4) No <**busy**> "When is a good time to callback?"	**[record callback time]**
5) Maybe <**may I ask who is calling?**>	**[skip to GATE]**

NEW. And ... can I have their ...

First Name ___________
Last Name ___________
Title/Position _________
Phone Number _________

ASK to be transferred ...

- **if transferred → go to A2**
- **if not transferred → Thank & Add to Callback List**

GATE. Hello, my name is ______________ and I'm calling on behalf of Enersource, your local electricity utility.

INTERVIEWER NOTE: If gatekeeper asks the purpose of call → I'd like to ask the person in-charge of managing the electricity bill at your organization a few questions concerning a **Enersource** customer consultation.

1) Yes <**transferred to contact**>		**[skip to A2]**
2) No <**not available**>	"*When is a good time to callback*?	**[record call-back time and go to "NEW"]**
3) No <**not interested in talking**>		**[Thank & Terminate]**

A1 QUAL PREAMBLE:

Read preamable again, if transferred to new person:

Hello, my name is _____________ and I'm calling on behalf of Enersource, your local electricity utility.

Innovative Research is a national public opinion research firm**.** We have been hired by **Enersource** to help them better understand the needs and preferences of non-residential customers who are responsible for paying their organization's electricity bill.

A2. Can I have roughly **10 minutes** of your time to ask you some questions? All your responses will be kept strictly confidential.

Yes – I don't mind	1	[CONTINUE]
No – Not primary bill payer (i.e. not best person to speak to)	2	[go to TRANSFER]
No – BAD TIME	3	[ARRANGE CALLBACK]
No – HARD REFUSAL	4	[THANK & TERMINATE]

MONIT [INTERNAL]

This call may be monitored or audio taped for quality control and evaluation purposes.

PRESS TO CONTINUE	1

A3. Can you confirm that your organization receives an electricity or hydro bill from **Enersource or Alectra Utilities**?

YES	1	[CONTINUE]
NO	2	[THANK & TERMINATE]
DK (volunteered)	98	[THANK & TERMINATE]

Only those in charge of managing/overseeing organizations electricity bill will be interviewed.

A4. As part of your job, are you in charge of managing or overseeing your organization's electricity or hydro bill?

YES	1		[CONTINUE]
NO	2	"Can I speak to the person who manages your organization's electricity bill?"	[Return to **NEW**]
DK	3	"Can I speak to the person who manages your organization's electricity bill?"	[Return to **NEW**]

TRANSFER

Can I please speak to the person who is in-charge of managing the electricity bill at your organization?

Yes	1	[BACK TO *INTRO*]
No – NOT AVAILABLE/BAD TIME – (ARRANGE CALLBACK)	2	[ARRANGE CALLBACK]
No – HARD REFUSAL	3	[THANK & TERMINATE]
Don't know (**DNR**)	98	[THANK & TERMINATE]

B. General Satisfaction

B5. You may have recently heard that **Enersource** has merged with neighbouring electricity distributors to form a new company called **Alectra Utilities.**

Had you heard of the **Alectra Utilities** merger before this survey?

01	Yes
02	No
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

B6. Regardless of whether you've heard of the recent merger or not, today I'm going to use the old name **"Enersource"**.

So, throughout this survey, references to "**Enersource**" simply refers to the distribution system in Mississauga, formerly served by **Enersource**, now being served by **Alectra Utilities.**

Today we'd like to talk to you about four things. First, we will talk about your experience with Enersource. Second, we will talk about the outcomes that matter most to you. Third, we will talk about some trade-offs in planning future investments. And finally, we will talk about some projects that Enersource could undertake in the next year.

B7. First, let's talk about your experience. As you may know, **Enersource** operates and maintains the local electricity distribution system in Mississauga. This is the system that takes the electricity from provincial transmission lines and brings it to your business through a network of wires, poles and other equipment that is owned and operated by **Enersource.**

How familiar are you with **Enersource**? Would you say you are *very familiar*, *somewhat familiar*, or *not familiar at all*?

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

B8. In general, how satisfied or dissatisfied are you with the services your organization receives from **Enersource**? Would you say you are *very satisfied, somewhat satisfied, somewhat dissatisfied, or very dissatisfied*?

01	Very satisfied
02	Somewhat satisfied
03	Neither satisfied or dissatisfied
04	Somewhat dissatisfied
05	Very dissatisfied
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

B9. Is there anything in particular **Enersource** can do to improve its service to your organization? [**OPEN**]

98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

B10. I'd now like to talk with you about your electricity bill …

While **Enersource** is responsible for collecting payment for the entire electricity bill, they retain about **24%** of the typical small business customer's bill. This is about **$73.33** on an average **$306.98** monthly small business electricity bill. The rest of the bill goes to power generation companies, transmission companies, the provincial government and regulatory agencies.

Before this survey, how familiar were you with the percentage of your organization's electricity bill that is retained by **Enersource**? Would you say… [**READ LIST**]

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

C. CUSTOMER PRIORITIES

C11. READ PREAMBLE

Now lets talk about our second topic – outcomes. **Enersource** regularly holds discussions with its customers to better understand how it should set spending priorities with the money customers pay for service.

In recent conversations with customers, a number of company goals were identified as key priorities for **Enersource**.

C12. Among the following **Enersource** priorities, please tell me which one is most important to you.

[READ OPTIONS; RANDOMIZE LIST]

01	Delivering reasonable electricity distribution prices.
02	Ensuring reliable electrical service.
03	Providing new electricity services (for example: electricity storage and distributed generation such as solar panel installation).
04	Helping customers reduce and better manage their electricity consumption.
05	Minimizing impact on the environment.
06	Ensuring the safety of electricity infrastructure
07	Providing quality customer service
98	Don't Know [DO NOT READ]

C13. What is the next most important priority you think Enersource should focus on? **If C12=98 Skip to C15**

[**Remove answer from C11 if asked to read again**]

C14. And what do you consider the third most important priority? **If C13=98 Skip to C15**

[**Remove answer from C11 and C12 if asked to read again**]

C15. Are there any other important priorities that **Enersource** should be focusing on that weren't included in the previous list I read to you? [**OPEN**]

98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

D. SYSTEM RELIABILITY

D16. We would like to understand your experience with reliability.

There are different outcomes when customers talk about power reliability.

Among the following reliability outcomes, please tell me which one is most important to you.

01	Reducing the overall number of outages
02	Reducing the overall length of outages
03	Reducing the number of outages during extreme weather events
04	Reducing the length of time to restore power during extreme weather events
05	Improving the quality of power, as judged by momentary interruptions in power that can result in the flickering or dimming of lights
98	Don't Know [DO NOT READ]

D17. What is the next most important reliability outcome for you? **If D16=98 Skip to E19**

[**Remove answer from D16 if asked to read again**]

D18. And what do you consider the third most important reliability outcome? **If D17=98 Skip to E19**

[**Remove answer from D16 and D17 if asked to read again**]

E. Investment Trade-Offs

How are electricity distribution rates set in Ontario?

E19. *Now, lets turn to our third topic, investment trade-offs.*

The electricity industry in Ontario is regulated by the Ontario Energy Board, otherwise known as the O-E-B. The OEB sets electricity rates in Ontario.

The OEB requires electricity distributors, such as Alectra Utilities, to develop its business plan and distribution system plan, as well as make spending and investment decisions based on customer feedback.

Electricity distributors are funded by the distribution rates paid by their customers. Periodically, distributors are required to file rate applications with the OEB to justify the amount of funding they need to safely and reliably distribute electricity to their customers.

Before this survey, how familiar were you with how electricity distrubtion rates are set in Ontario?

Would you say you are … [**READ LIST**]

01	Very familiar and could explain the process to others in details
02	Somewhat familiar, but didn't know how much about the process
03	Not familiar at all with the process of how electricity distrubtion rates are set
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

ICM intro PREAMBLE

E20. Alectra Utilities is now starting to create it's first overall investment plan as a merged utility. The OEB divides electricity distributor investments into four categories. One category called system access includes investments that are mandatory under the distributor's licence to operate. These include reasonable costs to connect new customers and moving existing infrastructure to accommodate civic improvements.

The spending in the other three categories involves finding the right balance between the impact on your bill and the service you receive. We would now like ask a few questions about your preferences when it comes to finding the right balance between costs and other outcomes.

I want to start by asking you about system renewal, that is the projects that replace aging electrical infrastructure

E21. [PREAMBLE]While **Enersource** works hard to prolong the life of the assets that make up **Mississauga's** distribution system, eventually these assets reach the end of their useful life and require replacement. Currently the average customer experiences 1.08 outages a year for an average of **35 minutes and 40 seconds**. When adjusted to remove outages due to loss of supply from the transmission system and major storms, 56% of unscheduled outages are as a result of equipment failure in the Enersource rate zone. However, it is not possible to predict exactly when a specific piece of aging equipment will fail. Enersource must decide the pace at which it replaces this aging equipment.

E22. Which of the following statements best represents your point of view?
[Read and Rotate statements 1 and 2]

01	**Enersource** should invest what it takes to replace the system's aging infrastructure to maintain system reliability; even if that increases my monthly electricity bill by a few dollars over the next few years.
02	**Enersource** should defer its estimated investment in replacing aging infrastructure to lessen the impact of any bill increase; even if this could eventually lead to more or longer power outages.
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

General Plant

E23. As a company, **Enersource** needs facilities to house staff and equipment, vehicles and tools to service electrical infrastructure, and IT systems to manage the distribution system and customer information..

Which of the following statements best represents your point of view?
[Read and Rotate statements 1 and 2]

01	**Enersource** should find ways to make do with the facilities, equipment, vehicles and IT systems it already has.
02	**Enersource** should make the investments necessary to ensure its staff have the equipment and IT systems they need to manage the system efficiently and reliably.
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

System Service Questions

E24. With growth in various parts of Mississauga comes greater demand for electricity. This increased demand for electricity puts increased pressure on the existing electrical infrastructure. Eventually, further infrastructure investments will be required to support increased demand for electricity.

With this in mind, which of the following statements best represents your point of view?

[Read and Rotate statements 1 and 2]

01	To help keep rate increases down, Enersource should delay investments in system capacity needs until customers start to experience a decline in reliability.
02	Enersource should proactively invest in system capacity infrastructure to ensure customers in high growth areas do not experience a decrease in reliability, even if this adds a small increase to customer bills.
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

Modernizing the Distribution System.

E25. **[PREAMBLE]** There are new technologies that **Enersource** can implement such as microgrids, electricity storage, and automatic switches that can give customers more choices, improve reliaiblity or reduce the impact on the environment.

These investments would create a better grid, but are not required to maintain the reliability that you experience today.

Which of the following statements best represent your point of view?
[**READ LIST; rotate 01 and 02**]

01	Enersource should invest in the benefits of modernization now, even if that means customers will have to pay bit more on their distribution rates in the near future.
02	Enersource should keep rate increases down by modernizing as part of the normal replacement of aging equipment, even though that means delaying the benefits of modernization.
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

E26. As we mentioned earlier, the rates you pay to Enersource are set by the OEB through a public process. Enersource's current rates were approved in a 2013 application and will be in place until 2027. Each year Enersource is permitted to increase rates to reflect inflation minus savings targets established by the OEB which requires Enersource to keep cost increases below inflation.

Before this survey, how familiar were you with the OEB requirement for Enersource to find savings every year?

Would you say you are … [**READ LIST**]

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

ICM rate impact

E27. Now let's turn to our final topic – possible new projects. As part of the OEB policies, there is an option for Enersource to apply for additional rate increases for discrete projects that are prudent, needed and not supported by existing rates. Looking ahead to 2019, Enersource has identified two system renewal projects that need more investment than the existing budget allows. System renewal projects are a mix of replacing aging infrastructure and emergency repairs.

Would you like me to repeat the description of system renewal projects, or may I move on?

[**IF ASKED TO REPEAT**; *"System renewal projects are a mix of replacing aging infrastructure and emergency repairs."]*

01	Repeat	
02	Continue	
98	Don't know (DO NOT READ)	
99	Refused (DO NOT READ)	

Leaky Transformers

E28. One of these projects deals with leaky transformers. Enersource has 25,000 tranformers which are used to reduce the voltage of electricity as it moves from major transmission lines to the lines going into homes and businesses. Earlier this decade, Enersource identified a backlog of almost 4,000 transformers that show signs of leaking. By the end of this year, over 3,000 of these transformers will have been replaced. However, that will still leave over 600 needing replacement.

E29. Which of the following is closest to your point of view regarding Ensource's proposed transformer replacement program? [**READ LIST ; ROTATE 01 and 02**]

01	Enersource should replace leaky transformers as part of its existing renewal plan, even the backlog, even if that means it will take several years before they are all replaced.
02	I am willing to have my bill increased by about **39 cents** a month so Enersource can make an extra effort to clean up the backlog of leaky transformers.
98	Don't know (DO NOT READ)

Rometown Overhead

E30. Another proposed project addresses the Rometown area Overhead system. There are 198 poles in this particular system. 68 out of 198 have been flagged as *poor* while another 56 are seen to be in *fair condition*. A total of 78 have been flagged for urgent replacement. This network of poles uses older technologies that will be replaced when the system is eventually rebuilt, but any repairs done today will have to use the older technology. It is more efficient to replace all the poles at once than to replace them one at a time but it costs less in the short run only to replace the poles most in need of repair.

E31. Which of the following is closest to your point of view regarding Ensource's proposed Rometown Overhead system rebuild program? [**READ LIST**]

01	Enersource should continue to operate the Rometown overhead system, and replace equipment reactively as it fails
02	Enersource should proceed now to replace 78 of the 198 poles in the most pressing need resulting in a monthly increase of **9 cents** for the average small business customer
03	Enersource should proceed now to replace all 198 poles at a cost of 3.2 million dollars, resulting in a monthly increase of **16 cents** for the average small business customer
04	Enersource should proceed now to replace the Rometown overhead system with an underground system at a cost of between $12 and 18 million dollars, resulting in a monthly increase of between **61 cents** and **92 cents** for the average small business customer
98	Don't know (DO NOT READ)

E32. As I mentioned earlier, each year Enersource is permitted to increase rates to reflect inflation minus a stretch factor which requires Enersource to find savings to keep cost increases below inflation. In order to reduce the backlog of leaking transformers and to replace the most high risk poles in the Rometown overhead system, Enersource would need to add a **48 cent charge** to the typical small business customers monthly electricity bill, from 2019 to 2026.

E33. That would result in an annual increase of **$5.76 each year** over the course of the next eight years – *totalling $46.08 over that period*.

What is your opinion on this proposed rate increase in 2019? Would you say … [**READ LIST; ROTATE 1 and 2**]

01	The proposed rate increase is reasonable	
02	The proposed rate increase is unreasonable	
98	Don't know (DO NOT READ)	
99	Refused (DO NOT READ)	

F. Segmentation & Demographics

Lastly, I'd like to ask you some general questions about the electricity system in Ontario.
For each statement please tell me if you would strongly agree, somewhat agree, somewhat disagree or strongly disagree. If you don't know enough to say or don't have an opinion just let me know.

01	Strongly agree
02	Somewhat agree
03	Somewhat disagree
04	Strongly disagree
98	Don't know/ No opinion (DO NOT READ)
99	Refused (DO NOT READ)

[ROTATE]

F34. The cost of my electricity bill has a major impact on the bottom line of my organization and results in some important spending priorities and investments being put off.

F35. Customers are well served by the electricity system in Ontario.

[END BATTERY]

These last few questions are for statistical purposes only.

F36. Which of the following best describes the sector in which your organization operates?

Restaurant	1
Retail	2
Commercial	3
Multi-unit residential	4
Hospitality (i.e. catering, hotel operations)	5
Manufacturing/Warehousing	6
Other [Please specify: ________________]	88
Don't know / Refused (**DNR**)	98

H38. Which of the following best describes the hours of operation of your organization? Would you say … [**READ LIST**]

We are open 24/7	1
We operate several shifts each day, but are not open 24/7	2
We operate during regular business hours only	3
We operate outside of regular business hours, but do not have shifts	4
Other (please specify): ________________________	88
Don't know / Refused (**DNR**)	98

THANK and END SURVEY

Thank you very much for taking the time to complete this survey.

Appendix 3.3

Enersource

Mid-Sized Business Ratepayer Survey

2019 ICM Customer Engagement

Date: May 2018

Prepared by:

Innovative Research Group, Inc.
www.innovativeresearch.ca

Vancouver
888 Dunsmuir Street, Suite 350
Vancouver BC | V6C 3K4

Toronto
56 The Esplanade, Suite 310
Toronto, Ontario | M5E 1A7

Mid-Sized Business Ratepayer Survey

Internal Questionnaire Notes

Method: Telephone, client provided list
Questionnaire Length: 10 minutes
Language: English
Sample Frame: Representative; n=200 small business (GS < 50 kW) customers
Calling Times: Weekdays 9am-5pm

Sample Variables

1. **Postal Code**
2. **Total Annual Electricity Consumption** *(total consumption between 1-Jan-2016 and 31-Dec-2016)*

The survey will follow a stratified random sampling methodology. This is a method of sampling that involves the division of a population into smaller groups known as strata. In stratified random sampling, the strata are formed based on members' shared attributes or characteristics (in this case, customer service area or electricity usage). A random sample from each stratum is taken in a number proportional to the stratum's size when compared to the customer population. These subsets of the strata are then pooled to form a random sample.

In this survey, customers will be divided into quartiles based on annual electricity usage to ensure the sample has a proportionate mix of customers from low, medium-low, medium-high, and high electricity usage households/low-volume businesses.

The table below illustrates the strata divisions:

Customer Sample Strata Divisions (Quotas):

Customer Type	Total Sample Target	First Quartile	Second Quartile	Third Quartile	Fourth Quartile
GS>50 kW	200	50	50	50	50

No regional segmentation.

A. SCREENING AND QUALIFICATIONS

Introduction

Hello, may I please speak to the person who is in charge of managing the electricity bill at your organization?

Yes <**speaking**>		**[go to INTRO]**
Yes <**transferred to contact**>		**[go to INTRO]**
No <**not available**>	"When is a good time to callback?	**[record callback time]**
No <**not interested in talking**>		**[THANK & TERMINATE]**

INTRO.

A1. Hello, my name is _____________ and I'm calling from Innovative Research Group on behalf of **Enersource**, your electricity distributor.

Innovative Research Group is a national public opinion research firm. **We need your input on choices that will affect the service you receive from Enersource and the price you pay for that service.** Your answers will be combined with others to protect your privacy.

The survey should take about 10 minutes.

Can I please speak to the person who is in-charge of managing the electricity bill at your organization?

1) Yes, speaking <**contact on the line**>	**[skip to A2]**
2) Yes <**transferred to contact**>	**[skip to A2]**
3) No <**not the right contact person**>	**[GO to "NEW"]**
4) No <**busy**> "When is a good time to callback?"	**[record callback time]**
5) Maybe <**may I ask who is calling?**>	**[skip to GATE]**

NEW. And … can I have their …

First Name ___________
Last Name ___________
Title/Position _________
Phone Number _________

ASK to be transferred …

- **if transferred → go to A2**
- **if not transferred → Thank & Add to Callback List**

GATE. Hello, my name is _____________ and I'm calling on behalf of Enersource, your local electricity utility.

INTERVIEWER NOTE: If gatekeeper asks the purpose of call → I'd like to ask the person in-charge of managing the electricity bill at your organization a few questions concerning a **Enersource** customer consultation.

1) Yes <**transferred to contact**>		**[skip to A2]**
2) No <**not available**>	"*When is a good time to callback*?	**[record call-back time and go to "NEW"]**
3) No <**not interested in talking**>		**[Thank & Terminate]**

A1 QUAL PREAMBLE:

Read preamble again, if transferred to new person:

Hello, my name is ______________ and I'm calling on behalf of Enersource, your local electricity utility.

Innovative Research is a national public opinion research firm**.** We have been hired by **Enersource** to help them better understand the needs and preferences of non-residential customers who are responsible for paying their organization's electricity bill.

A2. Can I have roughly **10 minutes** of your time to ask you some questions? All your responses will be kept strictly confidential.

Yes – I don't mind	1	[CONTINUE]
No – Not primary bill payer (i.e. not best person to speak to)	2	[go to TRANSFER]
No – BAD TIME	3	[ARRANGE CALLBACK]
No – HARD REFUSAL	4	[THANK & TERMINATE]

MONIT [INTERNAL]

This call may be monitored or audio taped for quality control and evaluation purposes.

PRESS TO CONTINUE	1

A3. Can you confirm that your organization receives an electricity or hydro bill from **Enersource or Alectra Utilities**?

YES	1	[CONTINUE]
NO	2	[THANK & TERMINATE]
DK (volunteered)	98	[THANK & TERMINATE]

Only those in charge of managing/overseeing organizations electricity bill will be interviewed.

A4. As part of your job, are you in charge of managing or overseeing your organization's electricity or hydro bill?

YES	1		[CONTINUE]
NO	2	"Can I speak to the person who manages your organization's electricity bill?"	[Return to **NEW**]
DK	3	"Can I speak to the person who manages your organization's electricity bill?"	[Return to **NEW**]

TRANSFER

Can I please speak to the person who is in-charge of managing the electricity bill at your organization?

Yes	1	[BACK TO ***INTRO***]
No – NOT AVAILABLE/BAD TIME – (ARRANGE CALLBACK)	2	[ARRANGE CALLBACK]
No – HARD REFUSAL	3	[THANK & TERMINATE]
Don't know (**DNR**)	98	[THANK & TERMINATE]

B. GENERAL SATISFACTION

B5. You may have recently heard that **Enersource** has merged with neighbouring electricity distributors to form a new company called **Alectra Utilities.**

Had you heard of the **Alectra Utilities** merger before this survey?

01	Yes
02	No
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

B6. Regardless of whether you've heard of the recent merger or not, today I'm going to use the old name **"Enersource"**.

So, throughout this survey, references to "**Enersource**" simply refers to the distribution system in Mississauga, formerly served by **Enersource**, now being served by **Alectra Utilities.**

Today we'd like to talk to you about four things. First, we will talk about your experience with Enersource. Second, we will talk about the outcomes that matter most to you. Third, we will talk about some trade-offs in planning future investments. And finally, we will talk about some projects that Enersource could undertake in the next year.

B7. First, let's talk about your experience. As you may know, **Enersource** operates and maintains the local electricity distribution system in Mississauga. This is the system that takes the electricity from provincial transmission lines and brings it to your business through a network of wires, poles and other equipment that is owned and operated by **Enersource.**

How familiar are you with **Enersource**? Would you say you are *very familiar*, *somewhat familiar*, or *not familiar at all*?

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

B8. In general, how satisfied or dissatisfied are you with the services your organization receives from **Enersource**? Would you say you are *very satisfied, somewhat satisfied, somewhat dissatisfied, or very dissatisfied*?

01	Very satisfied
02	Somewhat satisfied
03	Neither satisfied or dissatisfied
04	Somewhat dissatisfied
05	Very dissatisfied
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

B9. Is there anything in particular **Enersource** can do to improve its service to your organization? [**OPEN**]

98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

B10. I'd now like to talk with you about your electricity bill …

While **Enersource** is responsible for collecting payment for the entire electricity bill, they retain about **8%** of the typical mid-sized business customer's bill. This is about **$1,294.51** on an average **$16,862.84** monthly mid-sized business electricity bill. The rest of the bill goes to power generation companies, transmission companies, the provincial government and regulatory agencies.

Before this survey, how familiar were you with the percentage of your organization's electricity bill that is retained by **Enersource**? Would you say… [**READ LIST**]

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

C. CUSTOMER PRIORITIES

C11. READ PREAMBLE

Now lets talk about our second topic – outcomes. **Enersource** regularly holds discussions with its customers to better understand how it should set spending priorities with the money customers pay for service.

In recent conversations with customers, a number of company goals were identified as key priorities for **Enersource**.

C12. Among the following **Enersource** priorities, please tell me which one is most important to you.

[READ OPTIONS; RANDOMIZE LIST]

01	Delivering reasonable electricity distribution prices.
02	Ensuring reliable electrical service.
03	Providing new electricity services (for example: electricity storage and distributed generation such as solar panel installation).
04	Helping customers reduce and better manage their electricity consumption.
05	Minimizing impact on the environment.
06	Ensuring the safety of electricity infrastructure
07	Providing quality customer service
98	Don't Know [DO NOT READ]

C13. What is the next most important priority you think Enersource should focus on? **If C12=98 Skip to C15**

[**Remove answer from C11 if asked to read again**]

C14. And what do you consider the third most important priority? **If C13=98 Skip to C15**

[**Remove answer from C11 and C12 if asked to read again**]

C15. Are there any other important priorities that **Enersource** should be focusing on that weren't included in the previous list I read to you? [**OPEN**]

98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

D. System Reliability

D16. We would like to understand your experience with reliability.

There are different outcomes when customers talk about power reliability.

Among the following reliability outcomes, please tell me which one is most important to you.

01	Reducing the overall number of outages
02	Reducing the overall length of outages
03	Reducing the number of outages during extreme weather events
04	Reducing the length of time to restore power during extreme weather events
05	Improving the quality of power, as judged by momentary interruptions in power that can result in the flickering or dimming of lights
98	Don't Know [DO NOT READ]

D17. What is the next most important reliability outcome for you? **If D16=98 Skip to E19**

[**Remove answer from D16 if asked to read again**]

D18. And what do you consider the third most important reliability outcome? **If D17=98 Skip to E19**

[**Remove answer from D16 and D17 if asked to read again**]

E. INVESTMENT TRADE-OFFS

How are electricity distribution rates set in Ontario?

E19. *Now, lets turn to our third topic, investment trade-offs.*

The electricity industry in Ontario is regulated by the Ontario Energy Board, otherwise known as the O-E-B. The OEB sets electricity rates in Ontario.

The OEB requires electricity distributors, such as Alectra Utilities, to develop its business plan and distribution system plan, as well as make spending and investment decisions based on customer feedback.

Electricity distributors are funded by the distribution rates paid by their customers. Periodically, distributors are required to file rate applications with the OEB to justify the amount of funding they need to safely and reliably distribute electricity to their customers.

Before this survey, how familiar were you with how electricity distrubtion rates are set in Ontario?

Would you say you are ... [**READ LIST**]

01	Very familiar and could explain the process to others in details
02	Somewhat familiar, but didn't know how much about the process
03	Not familiar at all with the process of how electricity distrubtion rates are set
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

ICM intro PREAMBLE

E20. Alectra Utilities is now starting to create it's first overall investment plan as a merged utility. The OEB divides electricity distributor investments into four categories. One category called system access includes investments that are mandatory under the distributor's licence to operate. These include reasonable costs to connect new customers and moving existing infrastructure to accommodate civic improvements.

The spending in the other three categories involves finding the right balance between the impact on your bill and the service you receive. We would now like ask a few questions about your preferences when it comes to finding the right balance between costs and other outcomes.

I want to start by asking you about system renewal, that is the projects that replace aging electrical infrastructure

E21. [PREAMBLE]While **Enersource** works hard to prolong the life of the assets that make up **Mississauga's** distribution system, eventually these assets reach the end of their useful life and require replacement. Currently the average customer experiences 1.08 outages a year for an average of **35 minutes and 40 seconds**. When adjusted to remove outages due to loss of supply from the transmission system and major storms, 56% of unscheduled outages are as a result of equipment failure in the Enersource rate zone. However, it is not possible to predict exactly when a specific piece of aging equipment will fail. Enersource must decide the pace at which it replaces this aging equipment.

E22. Which of the following statements best represents your point of view?
[Read and Rotate statements 1 and 2]

01	**Enersource** should invest what it takes to replace the system's aging infrastructure to maintain system reliability; even if that increases my monthly electricity bill by a few dollars over the next few years.
02	**Enersource** should defer its estimated investment in replacing aging infrastructure to lessen the impact of any bill increase; even if this could eventually lead to more or longer power outages.
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

General Plant

E23. As a company, **Enersource** needs facilities to house staff and equipment, vehicles and tools to service electrical infrastructure, and IT systems to manage the distribution system and customer information..

Which of the following statements best represents your point of view?
[Read and Rotate statements 1 and 2]

01	**Enersource** should find ways to make do with the facilities, equipment, vehicles and IT systems it already has.
02	**Enersource** should make the investments necessary to ensure its staff have the equipment and IT systems they need to manage the system efficiently and reliably.
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

System Service Questions

E24. With growth in various parts of Mississauga comes greater demand for electricity. This increased demand for electricity puts increased pressure on the existing electrical infrastructure. Eventually, further infrastructure investments will be required to support increased demand for electricity.

With this in mind, which of the following statements best represents your point of view?

[Read and Rotate statements 1 and 2]

01	To help keep rate increases down, Enersource should delay investments in system capacity needs until customers start to experience a decline in reliability.
02	Enersource should proactively invest in system capacity infrastructure to ensure customers in high growth areas do not experience a decrease in reliability, even if this adds a small increase to customer bills.
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

Modernizing the Distribution System.

E25. **[PREAMBLE]** There are new technologies that **Enersource** can implement such as microgrids, electricity storage, and automatic switches that can give customers more choices, improve reliaiblity or reduce the impact on the environment.

These investments would create a better grid, but are not required to maintain the reliability that you experience today.

Which of the following statements best represent your point of view?
[**READ LIST; rotate 01 and 02**]

01	Enersource should invest in the benefits of modernization now, even if that means customers will have to pay bit more on their distribution rates in the near future.
02	Enersource should keep rate increases down by modernizing as part of the normal replacement of aging equipment, even though that means delaying the benefits of modernization.
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

E26. As we mentioned earlier, the rates you pay to Enersource are set by the OEB through a public process. Enersource's current rates were approved in a 2013 application and will be in place until 2027. Each year Enersource is permitted to increase rates to reflect inflation minus a stretch factor which requires Enersource to find savings to keep cost increases below inflation.

Before this survey, how familiar were you with the OEB requirement for Enersource to find savings every year?

Would you say you are … [**READ LIST**]

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know (DO NOT READ)
99	Refused (DO NOT READ)

ICM rate impact

E27. Now let's turn to our final topic – possible new projects. As part of the OEB policies, there is an option for Enersource to apply for additional rate increases for discrete projects that are prudent, needed and not supported by existing rates. Looking ahead to 2019, Enersource has identified two system renewal projects that need more investment than the existing budget allows. System renewal projects are a mix of replacing aging infrastructure and emergency repairs.

Would you like me to repeat the description of system renewal projects, or may I move on?

[**IF ASKED TO REPEAT**; "*System renewal projects are a mix of replacing aging infrastructure and emergency repairs.*"]

01	Repeat	
02	Continue	
98	Don't know (DO NOT READ)	
99	Refused (DO NOT READ)	

Leaky Transformers

E28. One of these projects deals with leaky transformers. Enersource has 25,000 tranformers which are used to reduce the voltage of electricity as it moves from major transmission lines to the lines going into homes and businesses. Earlier this decade, Enersource identified a backlog of almost 4,000 transformers that show signs of leaking. By the end of this year, over 3,000 of these transformers will have been replaced. However, that will still leave over 600 needing replacement.

E29. Which of the following is closest to your point of view regarding Ensource's proposed transformer replacement program? [**READ LIST ; ROTATE 01 and 02**]

01	Enersource should replace leaky transformers as part of its existing renewal plan, even the backlog, even if that means it will take several years before they are all replaced.
02	I am willing to have my bill increased by about **$6.21** a month so Enersource can make an extra effort to clean up the backlog of leaky transformers.
98	Don't know (DO NOT READ)

Rometown Overhead

E30. Another proposed project addresses the Rometown area Overhead system. There are 198 poles in this particular system. 68 out of 198 have been flagged as *poor* while another 56 are seen to be in *fair condition*. A total of 78 have been flagged for urgent replacement. This network of poles uses older technologies that will be replaced when the system is eventually rebuilt, but any repairs done today will have to use the older technology. It is more efficient to replace all the poles at once than to replace them one at a time but it costs less in the short run only to replace the poles most in need of repair.

E31. Which of the following is closest to your point of view regarding Ensource's proposed Rometown Overhead system rebuild program? [**READ LIST**]

01	Enersource should continue to operate the Rometown overhead system, and replace equipment reactively as it fails
02	Enersource should proceed now to replace 78 of the 198 poles in the most pressing need resulting in a monthly increase of $1.51 for the average mid-sized business customer
03	Enersource should proceed now to replace all 198 poles at a cost of 3.2 million dollars, resulting in a monthly increase of $2.62 for the average mid-sized business customer
04	Enersource should proceed now to replace the Rometown overhead system with an underground system at a cost of between $12 and 18 million dollars, resulting in a monthly increase of between $9.81 and $14.72 for the average mid-sized business customer
98	Don't know (DO NOT READ)

E32. As I mentioned earlier, each year Enersource is permitted to increase rates to reflect inflation minus a stretch factor which requires Enersource to find savings to keep cost increases below inflation. In order to reduce the backlog of leaking transformers and to replace the most high risk poles in the Rometown overhead system, Enersource would need to add a **$7.72 charge** to the typical mid-sized business customers monthly electricity bill, from 2019 to 2026.

E33. That would result in an annual increase of **$92.64 each year** over the course of the next eight years – *totalling $741.12 over that period*.

What is your opinion on this proposed rate increase in 2019? Would you say … [**READ LIST; ROTATE 1 and 2**]

01	The proposed rate increase is reasonable	
02	The proposed rate increase is unreasonable	
98	Don't know (DO NOT READ)	
99	Refused (DO NOT READ)	

F. SEGMENTATION & DEMOGRAPHICS

Lastly, I'd like to ask you some general questions about the electricity system in Ontario.
For each statement please tell me if you would strongly agree, somewhat agree, somewhat disagree or strongly disagree. If you don't know enough to say or don't have an opinion just let me know.

01	Strongly agree
02	Somewhat agree
03	Somewhat disagree
04	Strongly disagree
98	Don't know/ No opinion (DO NOT READ)
99	Refused (DO NOT READ)

[ROTATE]

F34. The cost of my electricity bill has a major impact on the bottom line of my organization and results in some important spending priorities and investments being put off.

F35. Customers are well served by the electricity system in Ontario.

[END BATTERY]

These last few questions are for statistical purposes only.

F36. Which of the following best describes the sector in which your organization operates?

Restaurant	1
Retail	2
Commercial	3
Multi-unit residential	4
Hospitality (i.e. catering, hotel operations)	5
Manufacturing/Warehousing	6
Other [Please specify: ______________]	88
Don't know / Refused (**DNR**)	98

H38. Which of the following best describes the hours of operation of your organization? Would you say … [**READ LIST**]

We are open 24/7	1
We operate several shifts each day, but are not open 24/7	2
We operate during regular business hours only	3
We operate outside of regular business hours, but do not have shifts	4
Other (please specify): ______________________	88
Don't know / Refused (**DNR**)	98

THANK and END SURVEY

Thank you very much for taking the time to complete this survey.

Appendix 3.4

Enersource

Key Accounts (2MW+ Customers) Online Survey

2019 ICM Customer Engagement

Date: May 2018

Prepared by:

Innovative Research Group, Inc.
www.innovativeresearch.ca

Vancouver
888 Dunsmuir Street, Suite 350
Vancouver BC | V6C 3K4

Toronto
56 The Esplanade, Suite 310
Toronto, Ontario | M5E 1A7

Internal Questionnaire Notes

Method: Online
Questionnaire Length: approximately 10 minutes
Language: English
Sample Frame: Large User 2MW+ (client list provided)
Sample Size: estimated 25% response rate
Field Date: May 15-25, 2018

Sample Variables

- **Contact Name**
- **Contact Email**
- **Company**
- **Average Peak Demand** (based on 2017 calendar year)
- **Average Monthly Bill** (based on 2017 calendar year)
- **Sector** (e.g. MURB, MASH, Commercial, Industrial or Institutional)

Email Introduction

This email to come from INNOVATIVE. **SUBJECT LINE: Alectra Utilities Customer Feedback Survey** **FROM: Innovative Research Group** <survey@innovativeresearch.ca>

Dear [e_PIPE_CN],

Alectra Utilities has commissioned **Innovative Research Group** (www.innovativeresearch.ca) to conduct a survey of all its **largest customers**.

The purpose of this survey is to help Alectra Utilities align its business planning with customer preferences and needs. Your feedback will help guide how Alectra Utilities uses ratepayer dollars to make future investment and spending decisions.

Only one representative per customer is being asked to participate in this important survey, so your response is singularly important. If you choose to delegate the completion of this survey, please refrain from multiple assignments, and assign this survey to a single staff member who is well-informed about your organization's electricity consumption and operations management.

We hope that you have a few minutes to complete this important survey so we can incorporate your input into Alectra Utilities' business planning process.

Your responses will be completely anonymous and your organization will not be identified to Alectra Utilities. To ensure your anonymity, your survey answers will be combined with those of other key account respondents to this survey.

The online survey will take about **10 minutes** to complete. To participate in the online survey, please click on the URL below, or copy and paste it into the address bar in your browser:
<unique URL>

We appreciate you taking the time to complete this survey.

Sincerely,
Innovative Research Group

- on behalf of -

Eileen Campbell
Vice President Customer Service
Alectra Utilities Corporation
E: Eileen.Campbell@alectrautilties.com
T: 905-317-4736

If you have any problems accessing the site, please contact Innovative Research Group's online panel support team at survey@innovativeresearch.ca.

A. INTRODUCTION

Thank you for participating in this online survey.

Innovative Research Group is a national public opinion research and consultation firm**. Alectra Utilities** has hired us to help it better understand the needs and preferences of its largest customers – customers like you – as well as identify the priorities where you think they should focus their resources.

This survey should take you **approximately 10 minutes** to complete and your answers will be combined with others to protect your confidentiality. While we've been provided your name and email address, no information that could be used to identify you or your company will be shared with Alectra Utilities.

Please answer all questions to the best of your ability. When answering the questions, please provide us with the response that holds most true for you. If you're unsure of how to answer a question or feel you don't know, please use the "don't know" or equivalent option.

Again, all information provided will be treated confidentially.

Note: *While you may be an Alectra Utilities residential customer, for the purposes of this survey, please answer the questions from the perspective of the business or organization that you represent.*

*Also, you may manage multiple facilities and receive multiple bills from Alectra Utilities. However, for this survey, please answer the questions with [**e_PIPE1**]'s facility, located at **[e_PIPE_ A],** in mind.*

Thank you for your time,

Innovative Research Group

Click here for the **Innovative Research Group Inc.'s** privacy policy.

Page break.

A1. PLACEHOLDER

A2. PLACEHOLDER

A3. PLACEHOLDER

A4. PLACEHOLDER

B. General Satisfaction

B5. You may have recently heard that **Enersource** has merged with neighbouring electricity distributors to form a new company called **Alectra Utilities.**

Had you heard of the **Alectra Utilities** merger before this survey?

01	Yes
02	No

B6. Regardless of whether you've heard of the recent merger or not, today I'm going to use the old name **"Enersource"**.

So, throughout this survey, references to "**Enersource**" simply refers to the distribution system in Mississauga, formerly served by **Enersource**, now being served by **Alectra Utilities.**

This survey will review four topics:

1. Your experience with Enersource.
2. Outcomes that matter most to you.
3. Your preference on trade-offs in planning future investments
4. Your preferences on projects that Enersource could undertake in the next year.

Page break.

B7. Let's begin with our first topic: **your customer experience**.

As you may know, **Enersource** operates and maintains the local electricity distribution system in Mississauga. This is the system that takes the electricity from provincial transmission lines and brings it to your business through a network of wires, poles and other equipment that is owned and operated by **Enersource.**

How familiar are you with **Enersource**?

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know

B8. In general, how satisfied or dissatisfied are you with the services your organization receives from **Enersource**?

01	Very satisfied
02	Somewhat satisfied
03	Neither satisfied or dissatisfied
04	Somewhat dissatisfied
05	Very dissatisfied
98	Don't know

B9. Is there anything in particular **Enersource** can do to improve its service to your organization? [**OPEN**]

98	Don't know

Page break.

B10. The next question is specifically about [**e_PIPE1**]'s electricity bill.

While **Enersource** is responsible for collecting payment for the entire electricity bill, they retain about **[e_PIPE2]** of your organization's bill. This is about **[e_PIPE3]** on your average **[e_PIPE4]** monthly electricity bill. The rest of the bill goes to power generation companies, transmission companies, the provincial government and regulatory agencies.

Before this survey, how familiar were you with the percentage of your organization's electricity bill that is retained by **Enersource**?

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know

Page break.

C. CUSTOMER PRIORITIES

C11. Now lets turn to our second topic: **outcomes**.

Enersource regularly holds discussions with its customers to better understand how it should set spending priorities with the money customers pay for service.

In recent conversations with customers, a number of company goals were identified as key priorities for **Enersource**.

C12. Please rank your Top 3 priorities from the list below.

Drag and drop the priorities in order, starting with the priority most important to you, followed by the second most important, and ending with the third most important.

01	Delivering reasonable electricity distribution prices.
02	Ensuring reliable electrical service.
03	Providing new electricity services (for example: electricity storage and distributed generation such as solar panel installation).
04	Helping customers reduce and better manage their electricity consumption.
05	Minimizing impact on the environment.
06	Ensuring the safety of electricity infrastructure
07	Providing quality customer service

C13. Place holder.

C14. Place holder.

C15. Are there any other important priorities that **Enersource** should be focusing on that weren't included in the previous list? [**OPEN**]

98	Don't know

Page break.

D. SYSTEM RELIABILITY

D16. We would like to understand your experience with reliability.

There are different outcomes when customers talk about power reliability.

Among the following reliability outcomes, please rank the **3 most important** from the list below.

Drag and drop the priorities in order, starting with the priority most important to you, followed by the second most important, and ending with the third most important.

01	Reducing the overall number of outages
02	Reducing the overall length of outages
03	Reducing the number of outages during extreme weather events
04	Reducing the length of time to restore power during extreme weather events
05	Improving the quality of power, as judged by momentary interruptions in power that can result in the flickering or dimming of lights

D17. Place holder.

D18. Place holder.

E. INVESTMENT TRADE-OFFS

How are electricity distribution rates set in Ontario?

E19. Now, lets turn to our third topic: **investment trade-offs.**

The electricity industry in Ontario is regulated by the Ontario Energy Board(OEB). The OEB sets electricity rates in Ontario.

The OEB requires electricity distributors, such as Alectra Utilities, to develop its business plan and distribution system plan, as well as make spending and investment decisions based on customer feedback.

Electricity distributors are funded by the distribution rates paid by their customers. Periodically, distributors are required to file rate applications with the OEB to justify the amount of funding they need to safely and reliably distribute electricity to their customers.

Before this survey, how familiar were you with how electricity distrubtion rates are set in Ontario?

01	Very familiar and could explain the process to others in details
02	Somewhat familiar, but didn't know how much about the process
03	Not familiar at all with the process of how electricity distrubtion rates are set
98	Don't know

Page break.

ICM intro PREAMBLE

E20. Alectra Utilities is now starting to create it's first overall investment plan as a merged utility. The OEB divides electricity distributor investments into four categories. One category called system access includes investments that are mandatory under the distributor's licence to operate. These include reasonable costs to connect new customers and moving existing infrastructure to accommodate civic improvements.

The spending in the other three categories involves finding the right balance between the impact on your bill and the service you receive.

The next few questions are about your preferences when it comes to finding the right balance between costs and other outcomes.

The first projects involve **system renewal**: these are the projects that replace aging electrical infrastructure.

E21. While **Enersource** works hard to prolong the life of the assets that make up **Mississauga's** distribution system, eventually these assets reach the end of their useful life and require replacement.

Currently the average customer experiences 1.08 outages a year for an average of **35 minutes and 40 seconds**. When adjusted to remove outages due to loss of supply from the transmission system and major storms, 56% of unscheduled outages are as a result of equipment failure in the Enersource rate zone. However, it is not possible to predict exactly when a specific piece of aging equipment will fail. Enersource must decide the pace at which it replaces this aging equipment.

E22. With this in mind, which of the following statements best represents your point of view? **[Rotate statements 1 and 2]**

01	**Enersource** should invest what it takes to replace the system's aging infrastructure to maintain system reliability; even if that increases my monthly electricity bill by a few dollars over the next few years.
02	**Enersource** should defer its estimated investment in replacing aging infrastructure to lessen the impact of any bill increase; even if this could eventually lead to more or longer power outages.
98	Don't know

Page break.

General Plant

E23. As a company, **Enersource** needs facilities to house staff and equipment, vehicles and tools to service electrical infrastructure, and IT systems to manage the distribution system and customer information..

With this in mind, which of the following statements best represents your point of view? **[Rotate statements 1 and 2]**

01	**Enersource** should find ways to make do with the facilities, equipment, vehicles and IT systems it already has.
02	**Enersource** should make the investments necessary to ensure its staff have the equipment and IT systems they need to manage the system efficiently and reliably.
98	Don't know

System Service Questions

E24. With growth in various parts of Mississauga comes greater demand for electricity. This increased demand for electricity puts increased pressure on the existing electrical infrastructure. Eventually, further infrastructure investments will be required to support increased demand for electricity.

With this in mind, which of the following statements best represents your point of view?

[Rotate 1 and 2]

01	To help keep rate increases down, Enersource should delay investments in system capacity needs until customers start to experience a decline in reliability.
02	Enersource should proactively invest in system capacity infrastructure to ensure customers in high growth areas do not experience a decrease in reliability, even if this adds a small increase to customer bills.
98	Don't know

Modernizing the Distribution System.

E25. There are new technologies that **Enersource** can implement such as microgrids, electricity storage, and automatic switches that can give customers more choices, improve reliaiblity or reduce the impact on the environment.

These investments would create a better grid, but are not required to maintain the reliability that you experience today.

With this in mind, which of the following statements best represent your point of view? [**Rotate 01 and 02**]

01	Enersource should invest in the benefits of modernization now, even if that means customers will have to pay bit more on their distribution rates in the near future.
02	Enersource should keep rate increases down by modernizing as part of the normal replacement of aging equipment, even though that means delaying the benefits of modernization.
98	Don’t know

Page break.

E26. As we mentioned earlier, the rates you pay to Enersource are set by the OEB through a public process. Enersource's current rates were approved in a 2013 application and will be in place until 2027.

Each year **Enersource** is permitted to increase rates to reflect inflation minus savings targets established by the OEB which requires **Enersource** to keep cost increases below inflation.

Before this survey, how familiar were you with the OEB requirement for Enersource to find savings every year?

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know

Page break.

ICM rate impact

E27. Now let's turn to our final topic – **possible new projects**.

As part of the OEB policies, there is an option for Enersource to apply for additional rate increases for discrete projects that are prudent, needed and not supported by existing rates.

Looking ahead to 2019, Enersource has identified **two system renewal projects** that need more investment than the existing budget allows. System renewal projects are a mix of replacing aging infrastructure and emergency repairs.

Leaky Transformers

E28. **One of these projects deals with leaky transformers**. Enersource has 25,000 tranformers which are used to reduce the voltage of electricity as it moves from major transmission lines to the lines going into homes and businesses. Earlier this decade, Enersource identified a backlog of almost 4,000 transformers that show signs of leaking. By the end of this year, over 3,000 of these transformers will have been replaced. However, that will still leave over 600 needing replacement.

E29. Which of the following is closest to your point of view regarding Ensource's proposed transformer replacement program?

[**ROTATE 01 and 02**]

01	Enersource should replace leaky transformers as part of its existing renewal plan, even the backlog, even if that means it will take several years before they are all replaced.
02	I am willing to have my bill increased by about **[e_PIPE5]** a month so Enersource can make an extra effort to clean up the backlog of leaky transformers.
98	Don't know

Rometown Overhead

E30. **Another proposed project addresses the Rometown area Overhead system**.

There are 198 poles in this particular system. 68 out of 198 have been flagged as *poor* while another 56 are seen to be in *fair condition*. A total of 78 have been flagged for urgent replacement.

This network of poles uses older technologies that will be replaced when the system is eventually rebuilt, but any repairs done today will have to use the older technology. It is more efficient to replace all the poles at once than to replace them one at a time but it costs less in the short run only to replace the poles most in need of repair.

E31. Which of the following is closest to your point of view regarding Ensource's proposed Rometown Overhead system rebuild program?

01	Enersource should continue to operate the Rometown overhead system, and replace equipment reactively as it fails
02	Enersource should proceed now to replace 78 of the 198 poles in the most pressing need resulting in an estimated monthly increase of **[e_PIPE6]** for your organization
03	Enersource should proceed now to replace all 198 poles at a cost of 3.2 million dollars, resulting in a monthly increase of **[e_PIPE7]** for your organization
04	Enersource should proceed now to replace the Rometown overhead system with an underground system at a cost of between $12 and 18 million dollars, resulting in a monthly increase of between **[e_PIPE8]** and **[e_PIPE9]** for your organization
98	Don't know

E32. As mentioned earlier, each year Enersource is permitted to increase rates to reflect inflation minus a stretch factor which requires Enersource to find savings to keep cost increases below inflation.

In order to reduce the backlog of **leaking transformers** and to replace the most high risk poles in the **Rometown overhead system**, Enersource would need to add an estimated **[e_PIPE10] charge** to your organization's monthly electricity bill, from 2019 to 2026.

E33. That would result in an estimated annual increase of **[e_PIPE11] each year** over the course of the next eight years – *totalling* **[e_PIPE12]***over that period*.

What is your opinion on this proposed rate increase in 2019?

01	The proposed rate increase is reasonable	
02	The proposed rate increase is unreasonable	
98	Don't know	

F. SEGMENTATION & FIRMOGRAPHICS

The last few questions are about the broader electricity system in Ontario.
For each statement please indicate if you agree or disagree.

01	Strongly agree
02	Somewhat agree
03	Somewhat disagree
04	Strongly disagree
98	Don't know/no opinion

[ROTATE]

F34. The cost of my electricity bill has a major impact on the bottom line of my organization and results in some important spending priorities and investments being put off.

F35. Customers are well served by the electricity system in Ontario.

[END BATTERY]

F36. Before this survey concludes, do you have any additional comments or feedback you'd like to share with **Alectra Utilities**?
Note: all feedback is anonymous and you will not be identified to Alectra Utilities without your expressed permission.
[OPEN]

THANK and END SURVEY

Thank you for taking the time to complete this survey.

If you have additional feedback you'd like to share with **Alectra Utilities**, please feel free to contact:

Scott Miller
Director, Customer Care
Alectra Utilities Corporation
Scott.Miller@alectrautilities.com

Appendix 3.5

Powerstream
Residential Ratepayer Survey

2019 ICM Customer Engagement

Date: May 2018

Prepared by:

Innovative Research Group, Inc.
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Residential Ratepayer Survey

Internal Questionnaire Notes

Method: Telephone, client provided list
Questionnaire Length: TBD
Language: English
Sample Frame: Representative; n=500 residential customers
Calling Times: Weekdays 4-9pm; Saturdays 12noon-9pm; Sundays 12noon-9pm

Sample Variables

1. **Postal Code**
2. **Total Annual Electricity Consumption** *(total consumption between 1-Jan-2017 and 31-Dec-2017)*

The survey will follow a stratified random sampling methodology. This is a method of sampling that involves the division of a population into smaller groups known as strata. In stratified random sampling, the strata are formed based on members' shared attributes or characteristics (in this case, customer service area or electricity usage). A random sample from each stratum is taken in a number proportional to the stratum's size when compared to the customer population. These subsets of the strata are then pooled to form a random sample.

In this survey, customers will be divided into quartiles based on annual electricity usage to ensure the sample has a proportionate mix of customers from low, medium-low, medium-high, and high electricity usage households/low-volume businesses.

The table below illustrates the strata divisions:

Residential Customers	% Dist	Sample	Quartile 1	Quartile 2	Quartile 3	Quartile 4
Aurora	5%	27	7	7	7	7
Barrie	15%	76	19	19	19	19
Bradford	3%	13	3	3	3	3
Markham	28%	140	35	35	35	35
Richmond Hill	17%	87	22	22	22	22
Vaughan	26%	131	33	33	33	33
Other	6%	28	7	7	7	7
Total	**100%**	**500**	**125**	**125**	**125**	**125**

A. SCREENING AND QUALIFICATIONS

Introduction

Hello, my name is _____________ and I'm calling from **Innovative Research Group** on behalf of **PowerStream**, your electricity distributor.

Innovative Research Group is a national public opinion research firm. We have been commissioned by **PowerStream** to help them better understand the needs and preferences of customers who are responsible for paying their household's electricity bill.

PowerStream– which distributes electricity to homes and businesses in your community – is preparing to submit its investment plan to the Ontario Energy Board for regulatory review. Since this plan will impact your bill, **PowerStream** wants to hear from you, so your views can help shape its plan.

A1. Would you mind if I had **10 minutes** of your time to ask you some questions? All your responses will be kept strictly confidential.

1	Yes	[**continue**]
2	No – NOT PRIMARY BILL PAYER	[**go to TRANSFER-1**]
3	No – BAD TIME	**ARRANGE CALLBACK**
4	No – HARD REFUSAL	**[Terminate]**

MONIT
This call may be monitored or audio recorded for quality control and evaluation purposes.

1	PRESS TO CONTINUE

A2. Have I reached you at your home phone number?

1	Yes – SPEAKING, CONTINUE	[**continue to A3**]
2	No – AT OFFICE or WORKPLACE	[**continue to A3**]
3	No – on cellular or mobile phone	[skip to CELL]
99	Refused – LOG (THANK AND TERMINATE)	**[Terminate]**

CELL. Are you currently operating a car, truck or other motor vehicle?

1	YES	ARRANGE CALLBACK
2	NO	[continue to A3]
98	Refused – LOG (THANK AND TERMINATE)	**[Terminate]**

A3. Are you the person primarily responsible for paying the electricity bill in your household?

1	Yes – I pay the bill	[continue to A4]
2	Yes – shared responsibility	[continue to A4]
3	No	[go to TRANSFER-1]
98	Don't know (**DNR**)	**[Terminate]**

TRANSFER-1

Can I speak with the person in your household who usually pays the electricity bill?

1	Yes	[**BACK TO *INTRO***]
2	No – NOT AVAILABLE/BAD TIME	[ARRANGE CALLBACK]
3	No – HARD REFUSAL	[**Terminate**]
98	Don't know (**DNR**)	[**Terminate**]

A4. And can you confirm that your household receives an electricity bill from **PowerStream**?

1	Yes	[**continue**]
2	No	[**Terminate**]
98	Don't know (**DNR**)	[**Terminate**]

GENDER **Note gender by observation:**

1	Male
2	Female

B. General Satisfaction

B5. You may have recently heard that **Powerstream** has merged with neighbouring electricity distributors to form a new company called **Alectra Utilities.**

Had you heard of the **Alectra Utilities** merger before this survey?

01	Yes
02	No
98	Don't know (**DNR**)
99	Refused (**DNR**)

B6. Regardless of whether you've heard of the recent merger or not, today I'm going to use the old name, PowerStream.

So, throughout this survey, references to "**PowerStream**" simply refers to the distribution system, formerly served by **PowerStream**, now being served by **Alectra Utilities.**

Today we'd like to talk to you about four things. First, we will talk about your experience with PowerStream. Second, we will talk about the outcomes that matter most to you. Third, we will talk about some trade-offs in planning future investments. And finally, we will talk about some projects that PowerStream could undertake in the next year.

B7. First, let's talk about your experience. As you may know, **PowerStream** operates and maintains the local electricity distribution system in this area. This is the system that takes the electricity from provincial transmission lines and brings it to your home through a network of wires, poles and other equipment that is owned and operated by **PowerStream.**

How familiar are you with **PowerStream**? Would you say you are *very familiar*, *somewhat familiar*, or *not familiar at all*?

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know (**DNR**)
99	Refused (**DNR**)

B8. In general, how satisfied or dissatisfied are you with the services you receive from **Powerstream**? Would you say you are *very satisfied, somewhat satisfied, somewhat dissatisfied, or very dissatisfied*?

01	Very satisfied
02	Somewhat satisfied
03	Neither satisfied or dissatisfied
04	Somewhat dissatisfied
05	Very dissatisfied
98	Don't know (**DNR**)
99	Refused (**DNR**)

B9. Is there anything in particular **Powerstream** can do to improve its service to you? [**OPEN**]

98	Don't know (**DNR**)
99	Refused (**DNR**)

B10. I'd now like to talk with you about your electricity bill …

While **Powerstream** is responsible for collecting payment for the entire electricity bill, they retain about **26%** of the typical residential customer's bill. This is about **$28.48** on an average **$108.81** monthly residential electricity bill. The rest of the bill goes to power generation companies, transmission companies, the provincial government and regulatory agencies.

Before this survey, how familiar were you with the percentage of your electricity bill that is retained by **Powerstream**? Would you say… [**READ LIST**]

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't Know [DO NOT READ]
99	Refused (DO NOT READ)

C. CUSTOMER PRIORITIES

C11. READ PREAMBLE

Now lets talk about our second topic – outcomes. **Powerstream** regularly holds discussions with its customers to better understand how it should set spending priorities with the money customers pay for service.

In recent conversations with customers, a number of company goals were identified as key priorities for **Powerstream**.

C12. Among the following **Powerstream** priorities, please tell me which one is most important to you.

[READ OPTIONS; RANDOMIZE LIST]

01	Delivering reasonable electricity distribution prices.
02	Ensuring reliable electrical service.
03	Providing new electricity services (for example: electricity storage and distributed generation such as solar panel installation).
04	Helping customers reduce and better manage their electricity consumption.
05	Minimizing impact on the environment.
06	Ensuring the safety of electricity infrastructure
07	Providing quality customer service
98	Don't Know [DO NOT READ]

C13. What is the next most important priority you think Powerstream should focus on? [**If C12=98 Skip to C15**]

[**Remove answer from C12 if asked to read again**]

C14. And what do you consider the third most important priority? [**If C13=98 Skip to C15**]

[**Remove answer from C12 and C13 if asked to read again**]

C15. Are there any other important priorities that **Powerstream** should be focusing on that weren't included in the previous list I read to you? [**OPEN**]

D. SYSTEM RELIABILITY

D16. We would like to understand your experience with reliability.

There are different outcomes when customers talk about power reliability.

Among the following reliability outcomes, please tell me which one is most important to you.

01	Reducing the overall number of outages
02	Reducing the overall length of outages
03	Reducing the number of outages during extreme weather events
04	Reducing the length of time to restore power during extreme weather events
05	Improving the quality of power, as judged by momentary interruptions in power that can result in the flickering or dimming of lights

D17. What is the next most important reliability outcome for you?

[**Remove answer from D16 if asked to read again**]

D18. And what do you consider the third most important reliability outcome?

[**Remove answer from D16 and D17 if asked to read again**]

E. INVESTMENT TRADE-OFFS

How are electricity distribution rates set in Ontario?

E19. Now, lets turn to our third topic, investment trade-offs.

The electricity industry in Ontario is regulated by the Ontario Energy Board, otherwise known as the O-E-B. The OEB sets electricity rates in Ontario.

The OEB requires electricity distributors, such as Alectra Utilities, to develop its business plan and distribution system plan, as well as make spending and investment decisions based on customer feedback.

Electricity distributors are funded by the distribution rates paid by their customers. Periodically, distributors are required to file rate applications with the OEB to justify the amount of funding they need to safely and reliably distribute electricity to their customers.

Before this survey, how familiar were you with how electricity distrubtion rates are set in Ontario?

Would you say you are … [**READ LIST**]

01	Very familiar and could explain the process to others in details
02	Somewhat familiar, but didn't know how much about the process
03	Not familiar at all with the process of how electricity distrubtion rates are set
98	Don't know (**DNR**)
99	Refused (**DNR**)

ICM intro PREAMBLE

E20. Alectra Utilities is now starting to create it's first overall investment plan as a merged utility. The OEB divides electricity distributor investments into four categories. One category called system access includes investments that are mandatory under the distributor's licence to operate. These include reasonable costs to connect new customers and moving existing infrastructure to accommodate civic improvements.

The spending in the other three categories involves finding the right balance between the impact on your bill and the service you receive. We would now like ask a few questions about your preferences when it comes to finding the right balance between costs and other outcomes.

I want to start by asking you about system renewal, that is the projects that replace aging electrical infrastructure.

E21. [**PREAMBLE**]While **PowerStream** works hard to prolong the life of the assets that make up its distribution system, eventually these assets reach the end of their useful life and require replacement. Currently the average customer experiences 1.1 outages a year for an average of 57 minutes. When adjusted to remove outages due to loss of supply from the transmission system and major storms, 42% of unscheduled outages are as a result of equipment failure in the PowerStream rate zone. However, it is not possible to predict exactly when a specific piece of aging equipment will fail. PowerStream must decide the pace at which it replaces this aging equipment.

E22. Which of the following statements best represents your point of view?
[Read and Rotate statements 1 and 2]

01	**PowerStream** should invest what it takes to replace the system's aging infrastructure to maintain system reliability; even if that increases my monthly electricity bill by a few dollars over the next few years.
02	**PowerStream** should defer its estimated investment in replacing aging infrastructure to lessen the impact of any bill increase; even if this could eventually lead to more or longer power outages.
98	Don't know (**DNR**)
99	Refused (**DNR**)

General Plant

E23. As a company, **PowerStream** needs facilities to house staff and equipment, vehicles and tools to service electrical infrastructure, and IT systems to manage the distribution system and customer information..

Which of the following statements best represents your point of view?
[Read and Rotate statements 1 and 2]

01	**PowerStream** should find ways to make do with the facilities, equipment, vehicles and IT systems it already has.
02	**PowerStream** should make the investments necessary to ensure its staff have the equipment and IT systems they need to manage the system efficiently and reliably
98	Don't know (**DNR**)
99	Refused (**DNR**)

System Service Questions

E24. With growth in various parts of the PowerStream service area comes greater demand for electricity. This increased demand for electricity puts increased pressure on the existing electrical infrastructure. Eventually, further infrastructure investments will be required to support increased demand for electricity.

With this in mind, which of the following statements best represents your point of view?

[Read and Rotate statements 1 and 2]

01	To help keep rate increases down, **PowerStream** should delay investments in system capacity needs until customers start to experience a decline in reliability.
02	**PowerStream** should proactively invest in system capacity infrastructure to ensure customers in high growth areas do not experience a decrease in reliability, even if this adds a small increase to customer bills.
98	Don't know (**DNR**)
99	Refused (**DNR**)

Modernizing the Distribution System.

E25. **[PREAMBLE]** There are new technoglogies that **PowerStream** can implement such as microgrids, electricity storage, and automatic swithces that can give customers more choices, improve reliaiblity or reduce the impact on the environment.

These investments would create a better grid, but are not required to maintain the reliability that you experience today.

Which of the following statements best represent your point of view?
[**READ LIST; rotate 01 and 02**]

01	**PowerStream** should invest in the benefits of modernization now, even if that means customers will have to pay bit more on their distribution rates in the near future.
02	**PowerStream** should keep rate increases down by modernizing as part of the normal replacement of aging equipment, even though that means delaying the benefits of modernization.
98	Don't know [**DNR**]
99	Refused [**DNR**]

E26. As we mentioned earlier, the rates you pay to PowerStream are set by the OEB through a public process. PowerStream's current rates were approved in a 2017 application and will be in place until 2027. Each year PowerStream is permitted to increase rates to reflect inflation minus savings targets established by the OEB which requires PowerStream to keep cost increases below inflation.

Before this survey, how familiar were you with the OEB requirement for PowerStream to find savings every year?

Would you say you are … [**READ LIST**]

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know (**DNR**)
99	Refused (**DNR**)

ICM rate impact

E27. *Now let's turn to our final topic – possible new projects.* As part of the OEB policies, there is an option for PowerStream to apply for additional rate increases for discrete projects projects that are prudent, needed and not supported by existing rates. Looking ahead to 2019, PowerStream has identified three projects that need more investment than the existing budget allows.

One project involves relocating six major feeder lines and the accompanying metering equipment to accommodate the rebuild of a major Transmission substation. PowerStream is using the lowest cost option to complete this project.

The second project involves relocating poles and wires as part of the York Region Rapid Transit VIVA bus projects. There are no major design choices in this project.

E28. Would you like me to repeat the description of these projects or may I move on to a third project?

[**IF ASKED TO REPEAT**; *"One project involves relocating six major feeder lines and the accompanying metering equipment to accommodate the rebuild of a major Transmission substation. PowerStream is using the lowest cost option to complete this project.*

The second project involves relocating poles and wires as part of the York Region Rapid Transit VIVA bus projects. There are no major design choices in this project."

01	Repeat	
02	Continue	
98	Don't know [**DNR**]	
99	Refused [**DNR**]	

E29. The third project involves relocating both overhead and underground wires and supporting equipment as part of the Bathurst Street road widening from Highway 7 to Teston road.

Powerstream has two options for this project. It can (ROTATE)

- move the current mix of overhead and underground wires and equipment at a cost of $5.5 million dollars, OR
- replace the overhead system with an underground system for better protection against weather and collisions from vehicles at a cost of between $25 and $35 million dollars.

Given earlier customer feedback emphasing the need to keep rate increases down, PowerStream is currently planning on taking the first option - to move the current mix of overhead and underground wires and equipment

Which option do you prefer? [**ROTATE 1 and 2**]

01	Move the current mix of overhead and underground wires and equipment at a cost of $5.5 million dollars, resulting in a monthly increase of **6 cents** for the average residential customer.	
02	Replace the overhead system with an underground system at a cost of between $25 and $35 million dollars, resulting in a monthly increase of between **25 cents and 35 cents** for the average residential customer	
98	Don't know [**DNR**]	
99	Refused [**DNR**]	

E30. As I mentioned earlier, each year PowerStream is permitted to increase rates to reflect inflation minus a stretch factor which requires PowerStream to find savings to keep cost increases below inflation. In order to maintain the existing plan to replace aging infrastructure and complete the mandatory projects previously discussed, PowerStream would need to add a **21 cent charge** to the typical residential customers monthly electricity bill, from 2019 to 2026.

E31. That would result in an annual increase of **$2.52 each year** over the course of the next eight years – *totalling $20.16 over that period*.

What is your opinion on this proposed rate increase in 2019? Would you say … [**READ LIST; ROTATE 1 and 2**]

01	The proposed rate increase is reasonable	
02	The proposed rate increase is unreasonable	
98	Don't know [**DNR**]	
99	Refused [**DNR**]	

F. SEGMENTATION & DEMOGRAPHICS

Lastly, I'd like to ask you some general questions about the electricity system in Ontario.
For each statement please tell me if you would strongly agree, somewhat agree, somewhat disagree or strongly disagree. If you don't know enough to say or don't have an opinion just let me know.

01	Strongly agree
02	Somewhat agree
03	Somewhat disagree
04	Strongly disagree
98	Don't know/ No opinion [DO NOT READ]
99	Refused [**DNR**]

[ROTATE]

F32. The cost of my electricity bill has a major impact on my finances and requires I do without some other important priorities.

F33. Customers are well served by the electricity system in Ontario.

[END BATTERY]

These last few questions are for statistical purposes only and I remind you again that all of your responses are completely confidential.

F34. Which of the following age group do you fall into? **READ LIST**

01	Younger than 18
02	18 to 24
03	25 to 34
04	35 to 44
05	45 to 54
06	55 to 64
07	65 or older
99	Refused [**DNR**]

F35. Counting yourself, how many people live in your household? [**DO NOT READ LIST**]

01	1 person
02	2 people
03	3 people
04	4 people
05	5 people
06	6 people
07	7 people
08	8 or more people
99	Refused [**DNR**]

F36. To the best of your ability, please tell me which of the following categories best describes your household's AFTER TAX income. **READ LIST**

01	Less than $28,000
02	Just over $28,000 to $39,000
03	Just over $39,000 to $48,000
04	Just over $48,000 to $52,000
05	More than $52,000
98	Not sure [**DNR**]
99	Refused [**DNR**]

THANK and END SURVEY

Thank you very much for taking the time to complete this survey.

Appendix 3.6

Powerstream

Small Business Ratepayer Survey

2019 ICM Customer Engagement

Date: May 2018

Prepared by:

Innovative Research Group, Inc.
www.innovativeresearch.ca

Vancouver
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Small Business Ratepayer Survey

Internal Questionnaire Notes

Method: Telephone, client provided list
Questionnaire Length: 10 minutes
Language: English
Sample Frame: Representative; n=200 small business customers (GS<50kW)
Calling Times: Weekdays 9am to 5pm;

Sample Variables

1. **Postal Code**
2. **Total Annual Electricity Consumption** *(total consumption between 1-Jan-2016 and 31-Dec-2016)*

The survey will follow a stratified random sampling methodology. This is a method of sampling that involves the division of a population into smaller groups known as strata. In stratified random sampling, the strata are formed based on members' shared attributes or characteristics (in this case, customer service area or electricity usage). A random sample from each stratum is taken in a number proportional to the stratum's size when compared to the customer population. These subsets of the strata are then pooled to form a random sample.

In this survey, customers will be divided into quartiles based on annual electricity usage to ensure the sample has a proportionate mix of customers from low, medium-low, medium-high, and high electricity usage households/low-volume businesses.

The table below illustrates the strata divisions:

Customer Sample Strata Divisions (Quotas):

GS<50kW Customers	% Dist	Sample	Quartile 1	Quartile 2	Quartile 3	Quartile 4
Aurora	5%	11	3	3	3	3
Barrie	15%	30	8	8	8	8
Bradford	3%	5	1	1	1	1
Markham	28%	56	14	14	14	14
Richmond Hill	17%	35	9	9	9	9
Vaughan	26%	52	13	13	13	13
Other	6%	11	3	3	3	3
Total	**100%**	**200**	**50**	**50**	**50**	**50**

A. SCREENING AND QUALIFICATIONS

Introduction

Hello, may I please speak to the person who is in charge of managing the electricity bill at your organization?

Yes <**speaking**>		**[go to INTRO]**
Yes <**transferred to contact**>		**[go to INTRO]**
No <**not available**>	"When is a good time to callback?	**[record callback time]**
No <**not interested in talking**>		**[THANK & TERMINATE]**

INTRO.

A1. Hello, my name is ______________ and I'm calling from Innovative Research Group on behalf of **PowerStream**, your electricity distributor.

Innovative Research Group is a national public opinion research firm. **We need your input on choices that will affect the service you receive from PowerStream and the price you pay for that service.** Your answers will be combined with others to protect your privacy.

The survey should take about 10 minutes.

Can I please speak to the person who is in-charge of managing the electricity bill at your organization?

1) Yes, speaking <**contact on the line**>	**[skip to A2]**
2) Yes <**transferred to contact**>	**[skip to A2]**
3) No <**not the right contact person**>	**[GO to "NEW"]**
4) No <**busy**> "When is a good time to callback?"	**[record callback time]**
5) Maybe <**may I ask who is calling?**>	**[skip to GATE]**

NEW. And … can I have their …

First Name ___________
Last Name ___________
Title/Position _________
Phone Number _________

ASK to be transferred …

- **if transferred → go to A2**
- **if not transferred → Thank & Add to Callback List**

GATE. Hello, my name is ______________ and I'm calling on behalf of PowerStream, your local electricity utility.

INTERVIEWER NOTE: If gatekeeper asks the purpose of call → I'd like to ask the person in-charge of managing the electricity bill at your organization a few questions concerning a **PowerStream** customer consultation.

1) Yes <**transferred to contact**>		**[skip to A2]**
2) No <**not available**>	"*When is a good time to callback*?	**[record call-back time and go to "NEW"]**
3) No <**not interested in talking**>		**[Thank & Terminate]**

A1 QUAL PREAMBLE:

Read preamable again, if transferred to new person:

Hello, my name is ______________ and I'm calling on behalf of PowerStream, your local electricity utility.

Innovative Research is a national public opinion research firm**.** We have been hired by **PowerStream** to help them better understand the needs and preferences of non-residential customers who are responsible for paying their organization's electricity bill.

A2. Can I have roughly **10 minutes** of your time to ask you some questions? All your responses will be kept strictly confidential.

Yes – I don't mind	1	[CONTINUE]
No – Not primary bill payer (i.e. not best person to speak to)	2	[go to TRANSFER]
No – BAD TIME	3	[ARRANGE CALLBACK]
No – HARD REFUSAL	4	[THANK & TERMINATE]

MONIT [INTERNAL]

This call may be monitored or audio taped for quality control and evaluation purposes.

PRESS TO CONTINUE	1

A3. Can you confirm that your organization receives an electricity or hydro bill from **PowerStream or Alectra Utilities**?

YES	1	[CONTINUE]
NO	2	[THANK & TERMINATE]
DK (volunteered)	98	[THANK & TERMINATE]

Only those in charge of managing/overseeing organizations electricity bill will be interviewed.

A4. As part of your job, are you in charge of managing or overseeing your organization's electricity or hydro bill?

YES	1		[CONTINUE]
NO	2	"Can I speak to the person who manages your organization's electricity bill?"	[Return to **NEW**]
DK	3	"Can I speak to the person who manages your organization's electricity bill?"	[Return to **NEW**]

TRANSFER

Can I please speak to the person who is in-charge of managing the electricity bill at your organization?

Yes	1	[BACK TO ***INTRO***]
No – NOT AVAILABLE/BAD TIME – (ARRANGE CALLBACK)	2	[ARRANGE CALLBACK]
No – HARD REFUSAL	3	[THANK & TERMINATE]
Don't know (**DNR**)	98	[THANK & TERMINATE]

B. General Satisfaction

B5. You may have recently heard that **Powerstream** has merged with neighbouring electricity distributors to form a new company called **Alectra Utilities.**

Had you heard of the **Alectra Utilities** merger before this survey?

01	Yes
02	No
98	Don't know (**DNR**)
99	Refused (**DNR**)

B6. Regardless of whether you've heard of the recent merger or not, today I'm going to use the old name, **PowerStream**.

So, throughout this survey, references to "**PowerStream**" simply refers to the distribution system, formerly served by **PowerStream**, now being served by **Alectra Utilities.**

Today we'd like to talk to you about four things. First, we will talk about your experience with PowerStream. Second, we will talk about the outcomes that matter most to you. Third, we will talk about some trade-offs in planning future investments. And finally, we will talk about some projects that PowerStream could undertake in the next year.

B7. First, let's talk about your experience. As you may know, **PowerStream** operates and maintains the local electricity distribution system in this area. This is the system that takes the electricity from provincial transmission lines and brings it to your business through a network of wires, poles and other equipment that is owned and operated by **PowerStream.**

How familiar are you with **PowerStream**? Would you say you are *very familiar*, *somewhat familiar*, or *not familiar at all*?

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know (**DNR**)
99	Refused (**DNR**)

B8. In general, how satisfied or dissatisfied are you with the services you receive from **Powerstream**? Would you say you are *very satisfied, somewhat satisfied, somewhat dissatisfied, or very dissatisfied*?

01	Very satisfied
02	Somewhat satisfied
03	Neither satisfied or dissatisfied
04	Somewhat dissatisfied
05	Very dissatisfied
98	Don't know (**DNR**)
99	Refused (**DNR**)

B9. Is there anything in particular **Powerstream** can do to improve its service to you? [**OPEN**]

98	Don't know (**DNR**)
99	Refused (**DNR**)

B10. I'd now like to talk with you about your electricity bill …

While **Powerstream** is responsible for collecting payment for the entire electricity bill, they retain about **23%** of the typical small business customer's bill. This is about **$68.52** on an average **$292.71** monthly small business electricity bill. The rest of the bill goes to power generation companies, transmission companies, the provincial government and regulatory agencies.

Before this survey, how familiar were you with the percentage of your organization's electricity bill that is retained by **Powerstream**? Would you say… [**READ LIST**]

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't Know [DO NOT READ]
99	Refused (DO NOT READ)

C. CUSTOMER PRIORITIES

C11. READ PREAMBLE

Now lets talk about our second topic – outcomes. **Powerstream** regularly holds discussions with its customers to better understand how it should set spending priorities with the money customers pay for service.

In recent conversations with customers, a number of company goals were identified as key priorities for **Powerstream**.

C12. Among the following **Powerstream** priorities, please tell me which one is most important to you.

[READ OPTIONS; RANDOMIZE LIST]

01	Delivering reasonable electricity distribution prices.
02	Ensuring reliable electrical service.
03	Providing new electricity services (for example: electricity storage and distributed generation such as solar panel installation).
04	Helping customers reduce and better manage their electricity consumption.
05	Minimizing impact on the environment.
06	Ensuring the safety of electricity infrastructure
07	Providing quality customer service
98	Don't Know [DO NOT READ]

C13. What is the next most important priority you think Powerstream should focus on? [**If C12=98 Skip to C15**]

[**Remove answer from C12 if asked to read again**]

C14. And what do you consider the third most important priority? [**If C13=98 Skip to C15**]

[**Remove answer from C12 and C13 if asked to read again**]

C15. Are there any other important priorities that **Powerstream** should be focusing on that weren't included in the previous list I read to you? [**OPEN**]

D. SYSTEM RELIABILITY

D16. We would like to understand your experience with reliability.

There are different outcomes when customers talk about power reliability.

Among the following reliability outcomes, please tell me which one is most important to you.

01	Reducing the overall number of outages
02	Reducing the overall length of outages
03	Reducing the number of outages during extreme weather events
04	Reducing the length of time to restore power during extreme weather events
05	Improving the quality of power, as judged by momentary interruptions in power that can result in the flickering or dimming of lights

D17. What is the next most important reliability outcome for you?

[**Remove answer from D16 if asked to read again**]

D18. And what do you consider the third most important reliability outcome?

[**Remove answer from D16 and D17 if asked to read again**]

E. INVESTMENT TRADE-OFFS

How are electricity distribution rates set in Ontario?

E19. Now, lets turn to our third topic, investment trade-offs.

The electricity industry in Ontario is regulated by the Ontario Energy Board, otherwise known as the O-E-B. The OEB sets electricity rates in Ontario.

The OEB requires electricity distributors, such as Alectra Utilities, to develop its business plan and distribution system plan, as well as make spending and investment decisions based on customer feedback.

Electricity distributors are funded by the distribution rates paid by their customers. Periodically, distributors are required to file rate applications with the OEB to justify the amount of funding they need to safely and reliably distribute electricity to their customers.

Before this survey, how familiar were you with how electricity distrubtion rates are set in Ontario?

Would you say you are ... [**READ LIST**]

01	Very familiar and could explain the process to others in details
02	Somewhat familiar, but didn't know how much about the process
03	Not familiar at all with the process of how electricity distrubtion rates are set
98	Don't know (**DNR**)
99	Refused (**DNR**)

ICM intro PREAMBLE

E20. Alectra Utilities is now starting to create it's first overall investment plan as a merged utility. The OEB divides electricity distributor investments into four categories. One category called system access includes investments that are mandatory under the distributor's licence to operate. These include reasonable costs to connect new customers and moving existing infrastructure to accommodate civic improvements.

The spending in the other three categories involves finding the right balance between the impact on your bill and the service you receive. We would now like ask a few questions about your preferences when it comes to finding the right balance between costs and other outcomes.

I want to start by asking you about system renewal, that is the projects that replace aging electrical infrastructure.

E21. [PREAMBLE]While **PowerStream** works hard to prolong the life of the assets that make up its distribution system, eventually these assets reach the end of their useful life and require replacement. Currently the average customer experiences 1.1 outages a year for an average of 57 minutes. When adjusted to remove outages due to loss of supply from the transmission system and major storms, 42% of unscheduled outages are as a result of equipment failure in the PowerStream rate zone. However, it is not possible to predict exactly when a specific piece of aging equipment will fail. PowerStream must decide the pace at which it replaces this aging equipment.

E22. Which of the following statements best represents your point of view?
[Read and Rotate statements 1 and 2]

01	**PowerStream** should invest what it takes to replace the system's aging infrastructure to maintain system reliability; even if that increases my monthly electricity bill by a few dollars over the next few years.
02	**PowerStream** should defer its estimated investment in replacing aging infrastructure to lessen the impact of any bill increase; even if this could eventually lead to more or longer power outages.
98	Don't know (**DNR**)
99	Refused (**DNR**)

General Plant

E23. As a company, **PowerStream** needs facilities to house staff and equipment, vehicles and tools to service electrical infrastructure, and IT systems to manage the distribution system and customer information..

Which of the following statements best represents your point of view?
[Read and Rotate statements 1 and 2]

01	**PowerStream** should find ways to make do with the facilities, equipment, vehicles and IT systems it already has.
02	**PowerStream** should make the investments necessary to ensure its staff have the equipment and IT systems they need to manage the system efficiently and reliably
98	Don't know (**DNR**)
99	Refused (**DNR**)

System Service Questions

E24. With growth in various parts of the PowerStream service area comes greater demand for electricity. This increased demand for electricity puts increased pressure on the existing electrical infrastructure. Eventually, further infrastructure investments will be required to support increased demand for electricity.

With this in mind, which of the following statements best represents your point of view?

[Read and Rotate statements 1 and 2]

01	To help keep rate increases down, **PowerStream** should delay investments in system capacity needs until customers start to experience a decline in reliability.
02	**PowerStream** should proactively invest in system capacity infrastructure to ensure customers in high growth areas do not experience a decrease in reliability, even if this adds a small increase to customer bills.
98	Don't know (**DNR**)
99	Refused (**DNR**)

Modernizing the Distribution System.

E25. **[PREAMBLE]** There are new technoglogies that **PowerStream** can implement such as microgrids, electricity storage, and automatic swithces that can give customers more choices, improve reliaiblity or reduce the impact on the environment.

These investments would create a better grid, but are not required to maintain the reliability that you experience today.

Which of the following statements best represent your point of view?
[**READ LIST; rotate 01 and 02**]

01	**PowerStream** should invest in the benefits of modernization now, even if that means customers will have to pay bit more on their distribution rates in the near future.
02	**PowerStream** should keep rate increases down by modernizing as part of the normal replacement of aging equipment, even though that means delaying the benefits of modernization.
98	Don't know [**DNR**]
99	Refused [**DNR**]

E26. As we mentioned earlier, the rates you pay to PowerStream are set by the OEB through a public process. PowerStream's current rates were approved in a 2017 application and will be in place until 2027. Each year PowerStream is permitted to increase rates to reflect inflation minus savings targets established by the OEB which requires PowerStream to keep cost increases below inflation.

Before this survey, how familiar were you with the OEB requirement for PowerStream to find savings every year?

Would you say you are … [**READ LIST**]

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know (**DNR**)
99	Refused (**DNR**)

ICM rate impact

E27. *Now let's turn to our final topic – possible new projects.* As part of the OEB policies, there is an option for PowerStream to apply for additional rate increases for discrete projects projects that are prudent, needed and not supported by existing rates. Looking ahead to 2019, PowerStream has identified three projects that need more investment than the existing budget allows.

One project involves relocating six major feeder lines and the accompanying metering equipment to accommodate the rebuild of a major Transmission substation. PowerStream is using the lowest cost option to complete this project.

The second project involves relocating poles and wires as part of the York Region Rapid Transit VIVA bus projects. There are no major design choices in this project.

E28. Would you like me to repeat the description of these projects or may I move on to a third project?

[**IF ASKED TO REPEAT**; "*One project involves relocating six major feeder lines and the accompanying metering equipment to accommodate the rebuild of a major Transmission substation. PowerStream is using the lowest cost option to complete this project.*

The second project involves relocating poles and wires as part of the York Region Rapid Transit VIVA bus projects. There are no major design choices in this project."

01	Repeat	
02	Continue	
98	Don't know [**DNR**]	
99	Refused [**DNR**]	

E29. The third project involves relocating both overhead and underground wires and supporting equipment as part of the Bathurst Street road widening from Highway 7 to Teston road.

Powerstream has two options for this project. It can (ROTATE)

- move the current mix of overhead and underground wires and equipment at a cost of $5.5 million dollars, OR
- replace the overhead system with an underground system for better protection against weather and collisions from vehicles at a cost of between $25 and $35 million dollars.

Given earlier customer feedback emphasing the need to keep rate increases down, PowerStream is currently planning on taking the first option - to move the current mix of overhead and underground wires and equipment

Which option do you prefer? [**ROTATE 1 and 2**]

01	Move the current mix of overhead and underground wires and equipment at a cost of $5.5 million dollars, resulting in a monthly increase of **11 cents** for the average small business customer.	
02	Replace the overhead system with an underground system at a cost of between $25 and $35 million dollars, resulting in a monthly increase of between **51 cents and 72 cents** for the average small business customer	
98	Don't know [**DNR**]	
99	Refused [**DNR**]	

E30. As I mentioned earlier, each year PowerStream is permitted to increase rates to reflect inflation minus a stretch factor which requires PowerStream to find savings to keep cost increases below inflation. In order to maintain the existing plan to replace aging infrastructure and complete the mandatory projects previously discussed, PowerStream would need to add a **43 cent charge** to the typical small business customers monthly electricity bill, from 2019 to 2016.

E31. That would result in an annual increase of **$5.16 each year** over the course of the next eight years – *totalling $41.28 over that period*.

What is your opinion on this proposed rate increase in 2019? Would you say … [**READ LIST; ROTATE 1 and 2**]

01	The proposed rate increase is reasonable	
02	The proposed rate increase is unreasonable	
98	Don't know [**DNR**]	
99	Refused [**DNR**]	

F. SEGMENTATION & DEMOGRAPHICS

Lastly, I'd like to ask you some general questions about the electricity system in Ontario.
For each statement please tell me if you would strongly agree, somewhat agree, somewhat disagree or strongly disagree. If you don't know enough to say or don't have an opinion just let me know.

01	Strongly agree
02	Somewhat agree
03	Somewhat disagree
04	Strongly disagree
98	Don't know/ No opinion (DO NOT READ)
99	Refused (DO NOT READ)

[ROTATE]

F32. The cost of my electricity bill has a major impact on the bottom line of my organization and results in some important spending priorities and investments being put off.

F33. Customers are well served by the electricity system in Ontario.

[END BATTERY]

These last few questions are for statistical purposes only.

F34. Which of the following best describes the sector in which your organization operates?

Restaurant	1
Retail	2
Commercial	3
Multi-unit residential	4
Hospitality (i.e. catering, hotel operations)	5
Manufacturing/Warehousing	6
Other [Please specify: _______________]	88
Don't know / Refused (**DNR**)	98

H38. Which of the following best describes the hours of operation of your organization? Would you say … [**READ LIST**]

We are open 24/7	1
We operate several shifts each day, but are not open 24/7	2
We operate during regular business hours only	3
We operate outside of regular business hours, but do not have shifts	4
Other (please specify): ______________________	88
Don't know / Refused (**DNR**)	98

THANK and END SURVEY

Thank you very much for taking the time to complete this survey.

Appendix 3.7

Powerstream

Mid-Sized Business Ratepayer Survey

2019 ICM Customer Engagement

Date: May 2018

Prepared by:

Innovative Research Group, Inc.
www.innovativeresearch.ca

Vancouver
888 Dunsmuir Street, Suite 350
Vancouver BC | V6C 3K4

Toronto
56 The Esplanade, Suite 310
Toronto, Ontario | M5E 1A7

Mid-Sized Business Ratepayer Survey

Internal Questionnaire Notes

Method: Telephone, client provided list
Questionnaire Length: 10 minutes
Language: English
Sample Frame: Representative; n=200 GS>50kW customers
Calling Times: Weekdays 9am-5pm

Sample Variables

1. **Postal Code**
2. **Total Annual Electricity Consumption** *(total consumption between 1-Jan-2016 and 31-Dec-2016)*

The survey will follow a stratified random sampling methodology. This is a method of sampling that involves the division of a population into smaller groups known as strata. In stratified random sampling, the strata are formed based on members' shared attributes or characteristics (in this case, customer service area or electricity usage). A random sample from each stratum is taken in a number proportional to the stratum's size when compared to the customer population. These subsets of the strata are then pooled to form a random sample.

In this survey, customers will be divided into quartiles based on annual electricity usage to ensure the sample has a proportionate mix of customers from low, medium-low, medium-high, and high electricity usage households/low-volume businesses.

The table below illustrates the strata divisions:

Customer Sample Strata Divisions (Quotas):

GS>50kW Customers	% Dist	Sample	Quartile 1	Quartile 2	Quartile 3	Quartile 4
Aurora	5%	11	3	3	3	3
Barrie	15%	30	8	8	8	8
Bradford	3%	5	1	1	1	1
Markham	28%	56	14	14	14	14
Richmond Hill	17%	35	9	9	9	9
Vaughan	26%	52	13	13	13	13
Other	6%	11	3	3	3	3
Total	**100%**	**200**	**50**	**50**	**50**	**50**

A. SCREENING AND QUALIFICATIONS

Introduction

Hello, may I please speak to the person who is in charge of managing the electricity bill at your organization?	
Yes <**speaking**>	**[go to INTRO]**
Yes <**transferred to contact**>	**[go to INTRO]**
No <**not available**> "When is a good time to callback?	**[record callback time]**
No <**not interested in talking**>	**[THANK & TERMINATE]**

INTRO.

A1. Hello, my name is ______________ and I'm calling from Innovative Research Group on behalf of **PowerStream**, your electricity distributor.

Innovative Research Group is a national public opinion research firm. **We need your input on choices that will affect the service you receive from PowerStream and the price you pay for that service.** Your answers will be combined with others to protect your privacy.

The survey should take about 10 minutes.

Can I please speak to the person who is in-charge of managing the electricity bill at your organization?

1) Yes, speaking <**contact on the line**>	**[skip to A2]**
2) Yes <**transferred to contact**>	**[skip to A2]**
3) No <**not the right contact person**>	**[GO to "NEW"]**
4) No <**busy**> "When is a good time to callback?"	**[record callback time]**
5) Maybe <**may I ask who is calling?**>	**[skip to GATE]**

NEW. And … can I have their …

First Name ___________
Last Name ___________
Title/Position _________
Phone Number _________

ASK to be transferred …

- **if transferred → go to A2**
- **if not transferred → Thank & Add to Callback List**

GATE. Hello, my name is ______________ and I'm calling on behalf of PowerStream, your local electricity utility.

INTERVIEWER NOTE: If gatekeeper asks the purpose of call → I'd like to ask the person in-charge of managing the electricity bill at your organization a few questions concerning a **PowerStream** customer consultation.

1) Yes <**transferred to contact**>		**[skip to A2]**
2) No <**not available**>	"*When is a good time to callback*?	**[record call-back time and go to "NEW"]**
3) No <**not interested in talking**>		**[Thank & Terminate]**

A1 QUAL PREAMBLE:

Read preamable again, if transferred to new person:

Hello, my name is ______________ and I'm calling on behalf of PowerStream, your local electricity utility.

Innovative Research is a national public opinion research firm**.** We have been hired by **PowerStream** to help them better understand the needs and preferences of non-residential customers who are responsible for paying their organization's electricity bill.

A2. Can I have roughly **10 minutes** of your time to ask you some questions? All your responses will be kept strictly confidential.

Yes – I don't mind	1	[CONTINUE]
No – Not primary bill payer (i.e. not best person to speak to)	2	[go to TRANSFER]
No – BAD TIME	3	[ARRANGE CALLBACK]
No – HARD REFUSAL	4	[THANK & TERMINATE]

MONIT [INTERNAL]

This call may be monitored or audio taped for quality control and evaluation purposes.

PRESS TO CONTINUE	1

A3. Can you confirm that your organization receives an electricity or hydro bill from **PowerStream or Alectra Utilities**?

YES	1	[CONTINUE]
NO	2	[THANK & TERMINATE]
DK (volunteered)	98	[THANK & TERMINATE]

Only those in charge of managing/overseeing organizations electricity bill will be interviewed.

A4. As part of your job, are you in charge of managing or overseeing your organization's electricity or hydro bill?

YES	1		[CONTINUE]
NO	2	"Can I speak to the person who manages your organization's electricity bill?"	[Return to **NEW**]
DK	3	"Can I speak to the person who manages your organization's electricity bill?"	[Return to **NEW**]

TRANSFER

Can I please speak to the person who is in-charge of managing the electricity bill at your organization?

Yes	1	[BACK TO *INTRO*]
No – NOT AVAILABLE/BAD TIME – (ARRANGE CALLBACK)	2	[ARRANGE CALLBACK]
No – HARD REFUSAL	3	[THANK & TERMINATE]
Don't know (**DNR**)	98	[THANK & TERMINATE]

B. GENERAL SATISFACTION

B5. You may have recently heard that **Powerstream** has merged with neighbouring electricity distributors to form a new company called **Alectra Utilities.**

Had you heard of the **Alectra Utilities** merger before this survey?

01	Yes
02	No
98	Don't know (**DNR**)
99	Refused (**DNR**)

B6. Regardless of whether you've heard of the recent merger or not, today I'm going to use the old name, **PowerStream**.

So, throughout this survey, references to "**PowerStream**" simply refers to the distribution system, formerly served by **PowerStream**, now being served by **Alectra Utilities.**

Today we'd like to talk to you about four things. First, we will talk about your experience with PowerStream. Second, we will talk about the outcomes that matter most to you. Third, we will talk about some trade-offs in planning future investments. And finally, we will talk about some projects that PowerStream could undertake in the next year.

B7. First, let's talk about your experience. As you may know, **PowerStream** operates and maintains the local electricity distribution system in this area. This is the system that takes the electricity from provincial transmission lines and brings it to your business through a network of wires, poles and other equipment that is owned and operated by **PowerStream.**

How familiar are you with **PowerStream**? Would you say you are *very familiar*, *somewhat familiar*, or *not familiar at all*?

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know (**DNR**)
99	Refused (**DNR**)

B8. In general, how satisfied or dissatisfied are you with the services you receive from **Powerstream**? Would you say you are *very satisfied, somewhat satisfied, somewhat dissatisfied, or very dissatisfied*?

01	Very satisfied
02	Somewhat satisfied
03	Neither satisfied or dissatisfied
04	Somewhat dissatisfied
05	Very dissatisfied
98	Don't know (**DNR**)
99	Refused (**DNR**)

B9. Is there anything in particular **Powerstream** can do to improve its service to you? [**OPEN**]

98	Don't know (**DNR**)
99	Refused (**DNR**)

B10. I'd now like to talk with you about your electricity bill ...

While **Powerstream** is responsible for collecting payment for the entire electricity bill, they retain about **9%** of the typical mid-sized business customer's bill. This is about **$1,231.50** on an average **$14,310** monthly mid-sized business electricity bill. The rest of the bill goes to power generation companies, transmission companies, the provincial government and regulatory agencies.

Before this survey, how familiar were you with the percentage of your organization's electricity bill that is retained by **Powerstream**? Would you say... [**READ LIST**]

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't Know [DO NOT READ]
99	Refused (DO NOT READ)

C. CUSTOMER PRIORITIES

C11. READ PREAMBLE

Now lets talk about our second topic – outcomes. **Powerstream** regularly holds discussions with its customers to better understand how it should set spending priorities with the money customers pay for service.

In recent conversations with customers, a number of company goals were identified as key priorities for **Powerstream**.

C12. Among the following **Powerstream** priorities, please tell me which one is most important to you.

[READ OPTIONS; RANDOMIZE LIST]

01	Delivering reasonable electricity distribution prices.
02	Ensuring reliable electrical service.
03	Providing new electricity services (for example: electricity storage and distributed generation such as solar panel installation).
04	Helping customers reduce and better manage their electricity consumption.
05	Minimizing impact on the environment.
06	Ensuring the safety of electricity infrastructure
07	Providing quality customer service
98	Don't Know [DO NOT READ]

C13. What is the next most important priority you think Powerstream should focus on? [**If C12=98 Skip to C15**]

[**Remove answer from C12 if asked to read again**]

C14. And what do you consider the third most important priority? [**If C13=98 Skip to C15**]

[**Remove answer from C12 and C13 if asked to read again**]

C15. Are there any other important priorities that **Powerstream** should be focusing on that weren't included in the previous list I read to you? [**OPEN**]

D. SYSTEM RELIABILITY

D16. We would like to understand your experience with reliability.

There are different outcomes when customers talk about power reliability.

Among the following reliability outcomes, please tell me which one is most important to you.

01	Reducing the overall number of outages
02	Reducing the overall length of outages
03	Reducing the number of outages during extreme weather events
04	Reducing the length of time to restore power during extreme weather events
05	Improving the quality of power, as judged by momentary interruptions in power that can result in the flickering or dimming of lights

D17. What is the next most important reliability outcome for you?

[**Remove answer from D16 if asked to read again**]

D18. And what do you consider the third most important reliability outcome?

[**Remove answer from D16 and D17 if asked to read again**]

E. INVESTMENT TRADE-OFFS

How are electricity distribution rates set in Ontario?

E19. Now, lets turn to our third topic, investment trade-offs.

The electricity industry in Ontario is regulated by the Ontario Energy Board, otherwise known as the O-E-B. The OEB sets electricity rates in Ontario.

The OEB requires electricity distributors, such as Alectra Utilities, to develop its business plan and distribution system plan, as well as make spending and investment decisions based on customer feedback.

Electricity distributors are funded by the distribution rates paid by their customers. Periodically, distributors are required to file rate applications with the OEB to justify the amount of funding they need to safely and reliably distribute electricity to their customers.

Before this survey, how familiar were you with how electricity distrubtion rates are set in Ontario?

Would you say you are … [**READ LIST**]

01	Very familiar and could explain the process to others in details
02	Somewhat familiar, but didn't know how much about the process
03	Not familiar at all with the process of how electricity distrubtion rates are set
98	Don't know (**DNR**)
99	Refused (**DNR**)

ICM intro PREAMBLE

E20. Alectra Utilities is now starting to create it's first overall investment plan as a merged utility. The OEB divides electricity distributor investments into four categories. One category called system access includes investments that are mandatory under the distributor's licence to operate. These include reasonable costs to connect new customers and moving existing infrastructure to accommodate civic improvements.

The spending in the other three categories involves finding the right balance between the impact on your bill and the service you receive. We would now like ask a few questions about your preferences when it comes to finding the right balance between costs and other outcomes.

I want to start by asking you about system renewal, that is the projects that replace aging electrical infrastructure.

E21. [**PREAMBLE**]While **PowerStream** works hard to prolong the life of the assets that make up its distribution system, eventually these assets reach the end of their useful life and require replacement. Currently the average customer experiences 1.1 outages a year for an average of 57 minutes. When adjusted to remove outages due to loss of supply from the transmission system and major storms, 42% of unscheduled outages are as a result of equipment failure in the PowerStream rate zone. However, it is not possible to predict exactly when a specific piece of aging equipment will fail. PowerStream must decide the pace at which it replaces this aging equipment.

E22. Which of the following statements best represents your point of view?
[Read and Rotate statements 1 and 2]

01	**PowerStream** should invest what it takes to replace the system's aging infrastructure to maintain system reliability; even if that increases my monthly electricity bill by a few dollars over the next few years.
02	**PowerStream** should defer its estimated investment in replacing aging infrastructure to lessen the impact of any bill increase; even if this could eventually lead to more or longer power outages.
98	Don't know (**DNR**)
99	Refused (**DNR**)

General Plant

E23. As a company, **PowerStream** needs facilities to house staff and equipment, vehicles and tools to service electrical infrastructure, and IT systems to manage the distribution system and customer information..

Which of the following statements best represents your point of view?
[Read and Rotate statements 1 and 2]

01	**PowerStream** should find ways to make do with the facilities, equipment, vehicles and IT systems it already has.
02	**PowerStream** should make the investments necessary to ensure its staff have the equipment and IT systems they need to manage the system efficiently and reliably
98	Don't know (**DNR**)
99	Refused (**DNR**)

System Service Questions

E24. With growth in various parts of the PowerStream service area comes greater demand for electricity. This increased demand for electricity puts increased pressure on the existing electrical infrastructure. Eventually, further infrastructure investments will be required to support increased demand for electricity.

With this in mind, which of the following statements best represents your point of view?

[Read and Rotate statements 1 and 2]

01	To help keep rate increases down, **PowerStream** should delay investments in system capacity needs until customers start to experience a decline in reliability.
02	**PowerStream** should proactively invest in system capacity infrastructure to ensure customers in high growth areas do not experience a decrease in reliability, even if this adds a small increase to customer bills.
98	Don't know (**DNR**)
99	Refused (**DNR**)

Modernizing the Distribution System.

E25. **[PREAMBLE]** There are new technoglogies that **PowerStream** can implement such as microgrids, electricity storage, and automatic swithces that can give customers more choices, improve reliaiblity or reduce the impact on the environment.

These investments would create a better grid, but are not required to maintain the reliability that you experience today.

Which of the following statements best represent your point of view?
[**READ LIST; rotate 01 and 02**]

01	**PowerStream** should invest in the benefits of modernization now, even if that means customers will have to pay bit more on their distribution rates in the near future.
02	**PowerStream** should keep rate increases down by modernizing as part of the normal replacement of aging equipment, even though that means delaying the benefits of modernization.
98	Don't know [**DNR**]
99	Refused [**DNR**]

E26. As we mentioned earlier, the rates you pay to PowerStream are set by the OEB through a public process. PowerStream's current rates were approved in a 2017 application and will be in place until 2027. Each year PowerStream is permitted to increase rates to reflect inflation minus savings targets established by the OEB which requires PowerStream to keep cost increases below inflation.

Before this survey, how familiar were you with the OEB requirement for PowerStream to find savings every year?

Would you say you are … [**READ LIST**]

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know (**DNR**)
99	Refused (**DNR**)

ICM rate impact

E27. *Now let's turn to our final topic – possible new projects.* As part of the OEB policies, there is an option for PowerStream to apply for additional rate increases for discrete projects projects that are prudent, needed and not supported by existing rates. Looking ahead to 2019, PowerStream has identified three projects that need more investment than the existing budget allows.

One project involves relocating six major feeder lines and the accompanying metering equipment to accommodate the rebuild of a major Transmission substation. PowerStream is using the lowest cost option to complete this project.

The second project involves relocating poles and wires as part of the York Region Rapid Transit VIVA bus projects. There are no major design choices in this project.

E28. Would you like me to repeat the description of these projects or may I move on to a third project?

[IF ASKED TO REPEAT; *"One project involves relocating six major feeder lines and the accompanying metering equipment to accommodate the rebuild of a major Transmission substation. PowerStream is using the lowest cost option to complete this project.*

The second project involves relocating poles and wires as part of the York Region Rapid Transit VIVA bus projects. There are no major design choices in this project."

01	Repeat	
02	Continue	
98	Don't know [**DNR**]	
99	Refused [**DNR**]	

E29. The third project involves relocating both overhead and underground wires and supporting equipment as part of the Bathurst Street road widening from Highway 7 to Teston road.

Powerstream has two options for this project. It can (ROTATE)

- move the current mix of overhead and underground wires and equipment at a cost of $5.5 million dollars, OR
- replace the overhead system with an underground system for better protection against weather and collisions from vehicles at a cost of between $25 and $35 million dollars.

Given earlier customer feedback emphasing the need to keep rate increases down, PowerStream is currently planning on taking the first option - to move the current mix of overhead and underground wires and equipment

Which option do you prefer? [**ROTATE 1 and 2**]

01	Move the current mix of overhead and underground wires and equipment at a cost of $5.5 million dollars, resulting in a monthly increase of **$2.64** for the average mid-sized business customer.	
02	Replace the overhead system with an underground system at a cost of between $25 and $35 million dollars, resulting in a monthly increase of between **$11.98 and $16.78** for the average mid-sized business customer	
98	Don't know [**DNR**]	
99	Refused [**DNR**]	

E30. As I mentioned earlier, each year PowerStream is permitted to increase rates to reflect inflation minus a stretch factor which requires PowerStream to find savings to keep cost increases below inflation. In order to maintain the existing plan to replace aging infrastructure and complete the mandatory projects previously discussed, PowerStream would need to add a **$10.03 charge** to the typical mid-sized business customers monthly electricity bill, from 2019 to 2026.

E31. That would result in an annual increase of **$120.36 each year** over the course of the next eight years – *totalling $962.88 over that period*.

What is your opinion on this proposed rate increase in 2019? Would you say … [**READ LIST; ROTATE 1 and 2**]

01	The proposed rate increase is reasonable	
02	The proposed rate increase is unreasonable	
98	Don't know [**DNR**]	
99	Refused [**DNR**]	

F. SEGMENTATION & DEMOGRAPHICS

Lastly, I'd like to ask you some general questions about the electricity system in Ontario.
For each statement please tell me if you would strongly agree, somewhat agree, somewhat disagree or strongly disagree. If you don't know enough to say or don't have an opinion just let me know.

01	Strongly agree
02	Somewhat agree
03	Somewhat disagree
04	Strongly disagree
98	Don't know/ No opinion (DO NOT READ)
99	Refused (DO NOT READ)

[ROTATE]

F32. The cost of my electricity bill has a major impact on the bottom line of my organization and results in some important spending priorities and investments being put off.

F33. Customers are well served by the electricity system in Ontario.

[END BATTERY]

These last few questions are for statistical purposes only.

F34. Which of the following best describes the sector in which your organization operates?

Restaurant	1
Retail	2
Commercial	3
Multi-unit residential	4
Hospitality (i.e. catering, hotel operations)	5
Manufacturing/Warehousing	6
Other [Please specify: _______________]	88
Don't know / Refused (**DNR**)	98

H38. Which of the following best describes the hours of operation of your organization? Would you say … [**READ LIST**]

We are open 24/7	1
We operate several shifts each day, but are not open 24/7	2
We operate during regular business hours only	3
We operate outside of regular business hours, but do not have shifts	4
Other (please specify): ______________________	88
Don't know / Refused (**DNR**)	98

THANK and END SURVEY

Thank you very much for taking the time to complete this survey.

Appendix 3.8

PowerStream
Key Accounts (2MW+ Customers) Online Survey

2019 ICM Customer Engagement

Date: May 2018

Prepared by:

Innovative Research Group, Inc.
www.innovativeresearch.ca

Vancouver
888 Dunsmuir Street, Suite 350
Vancouver BC | V6C 3K4

Toronto
56 The Esplanade, Suite 310
Toronto, Ontario | M5E 1A7

Internal Questionnaire Notes

Method: Online
Questionnaire Length: approximately 10 minutes
Language: English
Sample Frame: Large User 2MW+ (client list provided)
Sample Size: estimated 25% response rate
Field Date: May 15-25, 2018

Sample Variables

- **Contact Name**
- **Contact Email**
- **Company**
- **Average Peak Demand** (based on 2017 calendar year)
- **Average Monthly Bill** (based on 2017 calendar year)
- **Sector** (e.g. MURB, MASH, Commercial, Industrial or Institutional)

Email Introduction

This email to come from INNOVATIVE.
SUBJECT LINE: Alectra Utilities Customer Feedback Survey
FROM: Innovative Research Group <survey@innovativeresearch.ca>

Dear [e_PIPE_CN],

Alectra Utilities has commissioned **Innovative Research Group** (www.innovativeresearch.ca) to conduct a survey of all its **largest customers**.

The purpose of this survey is to help Alectra Utilities align its business planning with customer preferences and needs. Your feedback will help guide how Alectra Utilities uses ratepayer dollars to make future investment and spending decisions.

Only one representative per customer is being asked to participate in this important survey, so your response is singularly important. If you choose to delegate the completion of this survey, please refrain from multiple assignments, and assign this survey to a single staff member who is well-informed about your organization's electricity consumption and operations management.

We hope that you have a few minutes to complete this important survey so we can incorporate your input into Alectra Utilities' business planning process.

Your responses will be completely anonymous and your organization will not be identified to Alectra Utilities. To ensure your anonymity, your survey answers will be combined with those of other key account respondents to this survey.

The online survey will take about **10 minutes** to complete. To participate in the online survey, please click on the URL below, or copy and paste it into the address bar in your browser:
<unique URL>

We appreciate you taking the time to complete this survey.

Sincerely,
Innovative Research Group

- on behalf of -

Eileen Campbell
Vice President Customer Service
Alectra Utilities Corporation
E: Eileen.Campbell@alectrautilties.com
T: 905-317-4736

If you have any problems accessing the site, please contact Innovative Research Group's online panel support team at survey@innovativeresearch.ca.

A. INTRODUCTION

Thank you for participating in this online survey.

Innovative Research Group is a national public opinion research and consultation firm**. Alectra Utilities** has hired us to help it better understand the needs and preferences of its largest customers – customers like you – as well as identify the priorities where you think they should focus their resources.

This survey should take you **approximately 10 minutes** to complete and your answers will be combined with others to protect your confidentiality. While we've been provided your name and email address, no information that could be used to identify you or your company will be shared with Alectra Utilities.

Please answer all questions to the best of your ability. When answering the questions, please provide us with the response that holds most true for you. If you're unsure of how to answer a question or feel you don't know, please use the "don't know" or equivalent option.

Again, all information provided will be treated confidentially.

Note: *While you may be an Alectra Utilities residential customer, for the purposes of this survey, please answer the questions from the perspective of the business or organization that you represent.*

*Also, you may manage multiple facilities and receive multiple bills from Alectra Utilities. However, for this survey, please answer the questions with [**p_PIPE1**]'s facility, located at **[p_PIPE_ A],** in mind.*

Thank you for your time,

Innovative Research Group

Click here for the **Innovative Research Group Inc.'s** privacy policy.

Page break.

A1. PLACEHOLDER

A2. PLACEHOLDER

A3. PLACEHOLDER

A4. PLACEHOLDER

B. General Satisfaction

B5. You may have recently heard that **PowerStream** has merged with neighbouring electricity distributors to form a new company called **Alectra Utilities.**

Had you heard of the **Alectra Utilities** merger before this survey?

01	Yes
02	No

B6. Regardless of whether you've heard of the recent merger or not, today I'm going to use the old name **"PowerStream"**.

So, throughout this survey, references to "**PowerStream**" simply refers to the distribution system in the communities formerly served by **PowerStream**, now being served by **Alectra Utilities.**

This survey will review four topics:

1. Your experience with PowerStream.
2. Outcomes that matter most to you.
3. Your preference on trade-offs in planning future investments
4. Your preferences on projects that PowerStream could undertake in the next year.

Page break.

B7. Let's begin with our first topic: **your customer experience**.

As you may know, **PowerStream** operates and maintains the local electricity distribution system in Mississauga. This is the system that takes the electricity from provincial transmission lines and brings it to your business through a network of wires, poles and other equipment that is owned and operated by **PowerStream.**

How familiar are you with **PowerStream**?

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know

B8. In general, how satisfied or dissatisfied are you with the services your organization receives from **PowerStream**?

01	Very satisfied
02	Somewhat satisfied
03	Neither satisfied or dissatisfied
04	Somewhat dissatisfied
05	Very dissatisfied
98	Don't know

B9. Is there anything in particular **PowerStream** can do to improve its service to your organization? [**OPEN**]

98	Don't know

Page break.

B10. The next question is specifically about [**p_PIPE1**]'s electricity bill.

While **PowerStream** is responsible for collecting payment for the entire electricity bill, they retain about **[p_PIPE2]** of your organization's bill. This is about **[p_PIPE3]** on your average **[p_PIPE4]** monthly electricity bill. The rest of the bill goes to power generation companies, transmission companies, the provincial government and regulatory agencies.

Before this survey, how familiar were you with the percentage of your organization's electricity bill that is retained by **PowerStream**?

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know

Page break.

C. CUSTOMER PRIORITIES

C11. Now lets turn to our second topic: **outcomes**.

PowerStream regularly holds discussions with its customers to better understand how it should set spending priorities with the money customers pay for service.

In recent conversations with customers, a number of company goals were identified as key priorities for **PowerStream**.

C12. Please rank your Top 3 priorities from the list below.

Drag and drop the priorities in order, starting with the priority most important to you, followed by the second most important, and ending with the third most important.

01	Delivering reasonable electricity distribution prices.
02	Ensuring reliable electrical service.
03	Providing new electricity services (for example: electricity storage and distributed generation such as solar panel installation).
04	Helping customers reduce and better manage their electricity consumption.
05	Minimizing impact on the environment.
06	Ensuring the safety of electricity infrastructure
07	Providing quality customer service

C13. Place holder.

C14. Place holder.

C15. Are there any other important priorities that **PowerStream** should be focusing on that weren't included in the previous list? [**OPEN**]

98	Don't know

Page break.

D. SYSTEM RELIABILITY

D16. We would like to understand your experience with reliability.

There are different outcomes when customers talk about power reliability.

Among the following reliability outcomes, please rank the **3 most important** from the list below.

Drag and drop the priorities in order, starting with the priority most important to you, followed by the second most important, and ending with the third most important.

01	Reducing the overall number of outages
02	Reducing the overall length of outages
03	Reducing the number of outages during extreme weather events
04	Reducing the length of time to restore power during extreme weather events
05	Improving the quality of power, as judged by momentary interruptions in power that can result in the flickering or dimming of lights

D17. Place holder.

D18. Place holder.

Page break.

E. INVESTMENT TRADE-OFFS

How are electricity distribution rates set in Ontario?

E19. Now, lets turn to our third topic: **investment trade-offs.**

The electricity industry in Ontario is regulated by the Ontario Energy Board (OEB). The OEB sets electricity rates in Ontario.

The OEB requires electricity distributors, such as Alectra Utilities, to develop its business plan and distribution system plan, as well as make spending and investment decisions based on customer feedback.

Electricity distributors are funded by the distribution rates paid by their customers. Periodically, distributors are required to file rate applications with the OEB to justify the amount of funding they need to safely and reliably distribute electricity to their customers.

Before this survey, how familiar were you with how electricity distrubtion rates are set in Ontario?

01	Very familiar and could explain the process to others in details
02	Somewhat familiar, but didn't know how much about the process
03	Not familiar at all with the process of how electricity distrubtion rates are set
98	Don't know

Page break.

ICM intro PREAMBLE

E20. **Alectra Utilities is now starting to create it's first overall investment plan as a merged utility.** The OEB divides electricity distributor investments into four categories. One category called system access includes investments that are mandatory under the distributor's licence to operate. These include reasonable costs to connect new customers and moving existing infrastructure to accommodate civic improvements.

The spending in the other three categories involves finding the right balance between the impact on your bill and the service you receive.

The next few questions are about your preferences when it comes to finding the right balance between costs and other outcomes.

The first projects involve **system renewal**: these are the projects that replace aging electrical infrastructure.

E21. While **PowerStream** works hard to prolong the life of the assets that make up its distribution system, eventually these assets reach the end of their useful life and require replacement. Currently the average customer experiences **1.1 outages a year for an average of 57 minutes**.

When adjusted to remove outages due to loss of supply from the transmission system and major storms, 42% of unscheduled outages are as a result of equipment failure in the PowerStream rate zone. However, it is not possible to predict exactly when a specific piece of aging equipment will fail. **PowerStream** must decide the pace at which it replaces this aging equipment.

E22. With this in mind, which of the following statements best represents your point of view? **[Rotate statements 1 and 2]**

01	**PowerStream** should invest what it takes to replace the system's aging infrastructure to maintain system reliability; even if that increases my monthly electricity bill by a few dollars over the next few years.
02	**PowerStream** should defer its estimated investment in replacing aging infrastructure to lessen the impact of any bill increase; even if this could eventually lead to more or longer power outages.
98	Don't know

Page break.

General Plant

E23. As a company, **PowerStream** needs facilities to house staff and equipment, vehicles and tools to service electrical infrastructure, and IT systems to manage the distribution system and customer information..

With this in mind, which of the following statements best represents your point of view? **[Rotate statements 1 and 2]**

01	**PowerStream** should find ways to make do with the facilities, equipment, vehicles and IT systems it already has.
02	**PowerStream** should make the investments necessary to ensure its staff have the equipment and IT systems they need to manage the system efficiently and reliably
98	Don't know

System Service Questions

E24. With growth in various parts of the **PowerStream** service area comes greater demand for electricity. This increased demand for electricity puts increased pressure on the existing electrical infrastructure. Eventually, further infrastructure investments will be required to support increased demand for electricity.

With this in mind, which of the following statements best represents your point of view?

[Rotate statements 1 and 2]

01	To help keep rate increases down, **PowerStream** should delay investments in system capacity needs until customers start to experience a decline in reliability.
02	**PowerStream** should proactively invest in system capacity infrastructure to ensure customers in high growth areas do not experience a decrease in reliability, even if this adds a small increase to customer bills.
98	Don't know

Modernizing the Distribution System.

E25. There are new technoglogies that **PowerStream** can implement such as microgrids, electricity storage, and automatic swithces that can give customers more choices, improve reliaiblity or reduce the impact on the environment.

These investments would create a better grid, but are not required to maintain the reliability that you experience today.

With this in mind, which of the following statements best represents your point of view?
[Rotate statements 1 and 2]

01	**PowerStream** should invest in the benefits of modernization now, even if that means customers will have to pay bit more on their distribution rates in the near future.
02	**PowerStream** should keep rate increases down by modernizing as part of the normal replacement of aging equipment, even though that means delaying the benefits of modernization.
98	Don’t know

Page break.

E26. As we mentioned earlier, the rates you pay to PowerStream are set by the OEB through a public process. PowerStream's current rates were approved in a 2017 application and will be in place until 2027.

Each year PowerStream is permitted to increase rates to reflect inflation minus savings targets established by the OEB which requires PowerStream to keep cost increases below inflation.

Before this survey, how familiar were you with the OEB requirement for **PowerStream** to find savings every year?

01	Very familiar
02	Somewhat familiar
03	Not familiar at all
98	Don't know

Page break.

ICM rate impact

E27. Now let's turn to our final topic – **possible new projects**.

As part of the OEB policies, there is an option for PowerStream to apply for additional rate increases for discrete projects that are prudent, needed and not supported by existing rates. Looking ahead to 2019, PowerStream has identified **three projects** that need more investment than the existing budget allows.

The first project involves relocating six major feeder lines and the accompanying metering equipment to accommodate the rebuild of a major Transmission substation. PowerStream is using the lowest cost option to complete this project.

The second project involves relocating poles and wires as part of the York Region Rapid Transit VIVA bus projects. There are no major design choices in this project.

E28. **The third project** involves relocating both overhead and underground wires and supporting equipment as part of the Bathurst Street road widening from Highway 7 to Teston road.

Powerstream has two options for this project. It can: (ROTATE)

- move the current mix of overhead and underground wires and equipment at a cost of $5.5 million dollars, OR
- replace the overhead system with an underground system for better protection against weather and collisions from vehicles at a cost of between $25 and $35 million dollars.

Given earlier customer feedback emphasing the need to keep rate increases down, PowerStream is currently planning on taking the first option - to move the current mix of overhead and underground wires and equipment

Which option do you prefer? [**ROTATE 1 and 2**]

01	Move the current mix of overhead and underground wires and equipment at a cost of $5.5 million dollars, resulting in a monthly increase of **[p_PIPE5]** to your organization's monthly electricity bill	
02	Replace the overhead system with an underground system at a cost of between $25 and $35 million dollars, resulting in a monthly increase of between **[p_PIPE6] and [p_PIPE7]** to your organization's monthly electricity bill	
98	Don't know	

Page break.

E29. As mentioned earlier, each year **PowerStream** is permitted to increase rates to reflect inflation minus a stretch factor which requires PowerStream to find savings to keep cost increases below inflation.

In order to maintain the existing plan to replace aging infrastructure and complete the mandatory projects previously discussed, PowerStream would need to add a **[p_PIPE8] charge** to your organization's monthly electricity bill, from 2019 to 2026.

E30. That would result in an annual increase of **[p_PIPE9] each year** over the course of the next eight years – *totalling* **[p_PIPE10]** *over that period*.

What is your opinion on this proposed rate increase in 2019? [**ROTATE 1 and 2**]

01	The proposed rate increase is reasonable	
02	The proposed rate increase is unreasonable	
98	Don't know	

Page break.

F. SEGMENTATION & FIRMOGRAPHICS

The last few questions are about the broader electricity system in Ontario.
For each statement please indicate if you agree or disagree.

01	Strongly agree
02	Somewhat agree
03	Somewhat disagree
04	Strongly disagree
98	Don't know/no opinion

[ROTATE]

F34. The cost of my electricity bill has a major impact on the bottom line of my organization and results in some important spending priorities and investments being put off.

F35. Customers are well served by the electricity system in Ontario.

[END BATTERY]

F36. Before this survey concludes, do you have any additional comments or feedback you'd like to share with **Alectra Utilities**?
Note: all feedback is anonymous and you will not be identified to Alectra Utilities without your expressed permission.
[OPEN]

THANK and END SURVEY

Thank you for taking the time to complete this survey.

If you have additional feedback you'd like to share with **Alectra Utilities**, please feel free to contact:

Scott Miller
Director, Customer Care
Alectra Utilities Corporation
Scott.Miller@alectrautilities.com