

Form C – Micro-Generation Connection Application For Connection of Micro-Generation Facilities of $\leq 10\text{kW}$

About This Form

This application form is applicable to individual or multiple generating units at the customer's facility with a total nameplate rating of 10 kW or less. Your generation facility must generate electricity from a renewable energy source that is wind, water, solar radiation, or agricultural biomass.

Inverter-based generating units must not inject DC greater than 0.5% of the full rated output current at the point of connection of the generating units. The generated harmonic levels must not exceed those given in the CAN/CSA-C61000-3-6 Standards.

Submission Instructions

Return the completed form, fees and other required documents by email, mail or fax to:

Alectra Utilities Corporation
Stations Design and Standards – Distributed Generation
161 Cityview Boulevard,
Vaughan, Ontario, L4H 0A9
Email: DER@alectrautilities.com
Fax: 905-532-4447 – Attention: Stations Design and Standards – Distributed Generation

Important Notes

- Applications are cautioned NOT to incur major expenses until Alectra Utilities approves to connect the proposed generation facility.
- For generation size up to 10 kW, a Connection Impact Assessment will not be required and Alectra Utilities will not perform such an assessment. There may be a limitation on the number of micro-generation facilities that can be connected to the same distribution feeder.
- If your project's size is less than or equal to 10 kW, complete Form C - Micro-Generation Connection Application available at: [website URL]
- All fields below are mandatory, except where noted. Incomplete applications may be returned by Alectra Utilities.
- If you have any questions contact Alectra Utilities by email to DER@alectrautilities.com or telephone 1-877-963-6900 extension 25001.

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For Connection of Micro-Generation Facilities of ≤ 10kW

Application Information

1. Date: _____ (dd/mm/yyyy)
2. Project Name: _____
3. IESO Reference Number: _____ (if applicable)
4. Proposed In-Service Date: _____ (dd/mm/yyyy)

Generator Information

5. **Project Location:**

Address _____

City / Town / Township _____

Postal Code _____

Lot Number(s) _____

Concession number(s) _____
6. **Project Size:**

Number of units _____

Nameplate rating of each unit _____ kW

Generator connecting on single phase three phase

Existing total nameplate capacity _____ kW

Proposed total nameplate capacity _____ kW
7. **Project Intent:**

Load Displacement Net Metering Emergency Backup

Other (please specify) _____
8. **Generator Type:**

Synchronous Induction Inverter-type
9. **Project Type:**
 - i. **Existing:**

None Solar (rooftop) Solar (non-rooftop)

Energy Storage Biofuel Wind Turbine

Hydraulic Turbine Co-gen/CHP (Combined Heat and Power)

Other (please specify) _____
 - ii. **New:**

Solar (rooftop) Solar (non-rooftop) Energy Storage

Biofuel Wind Turbine Hydraulic Turbine

Co-generation/CHP (Combined Heat and Power)

Other (please specify) _____

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Contact Information

	Generator Owner (mandatory)	Facility Owner (mandatory)	Consultant (optional)
Company / Person			
Contact Person			
Mailing address line 1			
Mailing address line 2			
Telephone			
Email			
Fax			

Choose a single point of contact: Owner Consultant
 Preferred method of contact with Alectra Utilities: Email Telephone Postal Mail Fax

10. Customer Status

Are you an existing Alectra Utilities customer? Yes No
 If yes, Alectra Utilities account number: _____
 Customer name registered on this account: _____
 Are you an HST registrant? Yes No
 If yes, provide your HST registration number: _____ - _____ RT _____

Connection Information

11. Connection to Alectra Utilities' Distribution System:

a. Connection voltage to Alectra Utilities' distribution system: _____ kV
 b. Station: _____
 c. Feeder: _____

12. Customer Owned Step-up Interface Transformer (if applicable):

a. Transformer rating: _____ kVA
 b. High voltage winding connection: Delta Star
 Grounding method of star connected high voltage winding neutral
 Solid Ungrounded Impedance grounded: R_____X_____ohms
 c. Low voltage winding connection: Delta Star
 Grounding method of star connected high voltage winding neutral
 Solid Ungrounded Impedance grounded: R_____X_____ohms

Note: The term "high voltage" refers to the connection voltage to Alectra Utilities' distribution system and "low voltage" refers to the generator / inverter output voltage.

13. Generator / Inverter Information:

(For generation facilities installing more than one type of generator, complete section 6.)

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- a. Manufacturer: _____
- b. Model Number: _____
- c. Number of phases: single phase three phase
- d. Nameplate rating: _____ kW
- e. Generator/Inverter AC output voltage: _____ Volts
- f. Type of inverter: Self-commutated Line-commutated Other (specify) _____
- g. Are power factor correction capacitors automatically switched off when generator breaker opens?
 Yes No
- h. Is the generator/inverter paralleling equipment and/or design pre-certified and meets anti-islanding test requirements?
 Yes No
- i. If answer to the above question is Yes, to which standard(s)? e.g. CSA C22.2 No.107.1-01, UL1741, etc.

- j. Method of synchronizing the generator/inverter to Alectra Utilities' system?
 Manual Automatic
- k. Maximum inrush current upon generator or inverter connections ($I_{\text{inrush}}/I_{\text{rated}}$) _____ per unit

14. Grid Interface Controller (if applicable):

- a. Manufacturer: _____ Model Number: _____

15. Single Line Diagram (SLD):

Provide a SLD of the generating facility including the location of the external disconnect switch and Interface Point to Alectra Utilities' distribution system.

16. Type of Connection:

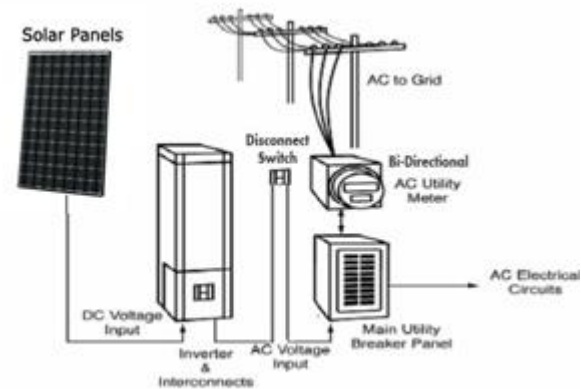
Select the Single Line Diagram below that is appropriate for your connection to the Alectra Utilities distribution system.

- a. Diagram 1 – Net Metering Connection
- b. Diagram 2 – Parallel Metering Connection

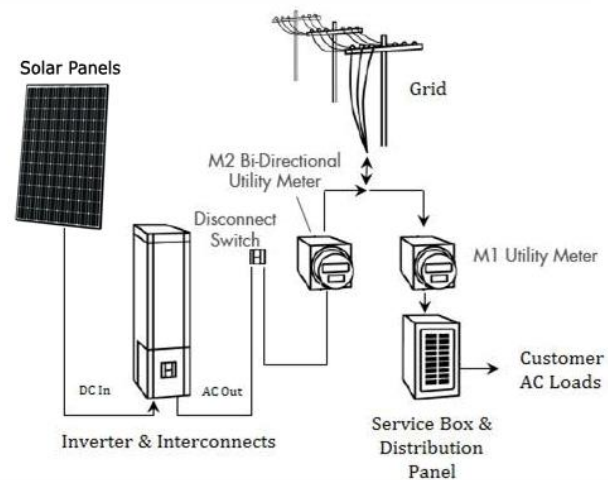
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a. Diagram 1 – Net Metering Connection



b. Diagram 2 – Parallel Metering Connection



By submitting a Form C, the Proponent authorized the collection by Alectra Utilities of the information set out in the Form C and other wise collected in accordance with the terms thereof, the terms of Alectra Utilities' Conditions of Service, Alectra Utilities' Privacy Policy and the requirements of the Distribution System Code and the use of such information for the purposes of the connection of the generation facility to Alectra Utilities' distribution system.