

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.

Inverter type generators shall be compliant with CSA Standards, CSA 22.2 No. 107.1 "General use Power Supply" and CSA 22.3 No. 9-2020 "Interconnection of distributed energy resources and electricity supply systems" and bear a certification mark recognized by the Ontario Electrical Safety Code.

- In lieu of compliance with CSA 22.3 No. 9-2020 the inverter will be deemed acceptable if it achieves UL 1741 SA (2016 or later) certification

Submission Instructions

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

Alectra Utilities Corporation
Station Design – Distributed Energy Resources (DER)
161 Cityview Boulevard,
Vaughan, Ontario, L4H 0A9
Email: DER@alectrautilities.com

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: [www.alectrautilities.com/connecting-generation]
- 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 905-283-3982.

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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 <i>(mandatory)</i>	Site Owner <i>(mandatory)</i>	Consultant <i>(optional)</i>
Company / Person			
Contact Person			
Mailing address line 1			
Mailing address line 2			
Telephone			
Email			

Choose a single point of contact:

Generator Owner Consultant

Preferred method of contact with Alectra Utilities:

Email Telephone Postal Mail

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.

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13. Generator / Inverter Information:

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

- 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_{inrush}/I_{rated}) _____ per unit

14. Grid Interface Controller (if applicable):

- a. Manufacturer: _____ Model Number: _____

15. Single Line Diagram (SLD):

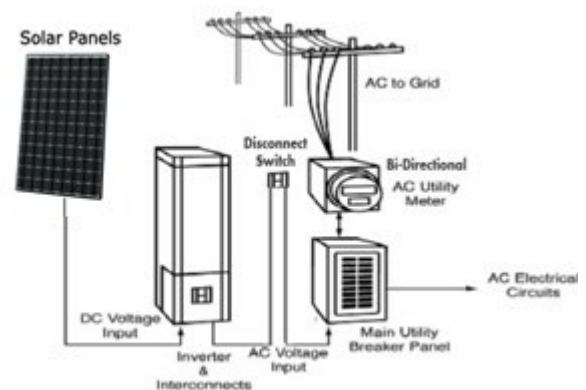
Provide a SLD of the generating facility including the location of the external disconnect switch and Interface Point to Alectra Utilities' distribution system.

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

Diagram 1 – Net Metering Connection



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By submitting this form, I acknowledge that the personal information contained on this form is collected by Alectra Utilities in support of its obligations under the Electricity Act, 1998 and the Ontario Energy Board Act, 1998, applicable Ontario Energy Board Codes and Rules, associated policies, standards and procedures and its electricity distribution license. Use and disclosure of the personal information shall be governed by the Municipal Freedom of Information and Protection of Privacy Act. Questions about this collection should be directed to Alectra Utilities' Privacy Officer, 2185 Derry Road West, Mississauga, ON L5N 7A6; email: privacy.officer@alectra.com

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, 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.