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## Micro-Embedded Generation Connection Application - Form C For Connection of Micro-Generation Facilities of $\leq 12\text{kW}$

### Burlington Hydro Inc. Distribution System

#### 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 12 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 harmonic levels generated 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 to [generation@burlingtonhydro.com](mailto:generation@burlingtonhydro.com), or mail to:

Burlington Hydro Inc.  
1340 Brant Street, Burlington, Ontario, L7R 3Z7  
Attn: Engineering Dept – Distributed Energy Resources (DER)

#### Important Notes

- Applications are cautioned NOT to incur major expenses until Burlington Hydro approves to connect the proposed generation facility.
- For generation size up to 12 kW, a Connection Impact Assessment will not be required, and Burlington Hydro 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 12 kW, complete Form C - Micro-Generation Connection Application available on our [website](#).
- All fields below are mandatory, except where noted. Incomplete applications may be returned by Burlington Hydro Inc.
- If the total Generation's facilities is greater than 12 kW a connection impact assessment will be required. Customer is responsible for changes associated with the study.
- If you have any questions, contact Burlington Hydro by email to [generation@burlingtonhydro.com](mailto:generation@burlingtonhydro.com) or telephone 905-332-1851 x. 251

### 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:  Non-Exporting  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) \_\_\_\_\_
  
- 10. Batteries: Will the batteries be installed with this project? Yes \_\_\_\_\_ No \_\_\_\_\_  
 If yes, will the batteries generate power back into the Grid? Yes \_\_\_\_\_ No \_\_\_\_\_  
 Total battery size: \_\_\_\_\_ Kw  
 Total battery size: \_\_\_\_\_ kwh

### Contact Information

	Generator Owner (mandatory)	Site Owner (mandatory)	Consultant (optional)
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 Burlington Hydro:  Email  Telephone  Postal Mail

### 10. Customer Status

Are you an existing Burlington Hydro customer?  Yes  No  
 If yes, Burlington Hydro 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 Burlington Hydro’s Distribution System:

- a. Connection voltage to Burlington Hydro’s 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 Burlington Hydro’s 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.)*

- 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 the 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 Burlington Hydro's system?  
 Manual  Automatic
- k. Maximum inrush current upon generator or inverter connections ( $I_{inrush}/I_{rated}$ ) \_\_\_\_\_ per unit

**14. For Solar (Photovoltaic) only:**

Number of series connected cells \_\_\_\_\_ Number of Parallel Strings \_\_\_\_\_

**15. Grid Interface Controller (if applicable):**

Manufacturer: \_\_\_\_\_ Model Number: \_\_\_\_\_

**16. Single Line Diagram (SLD):**

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

By submitting this form, I acknowledge that the personal information contained on this form is collected by Burlington Hydro 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 personal information shall be governed by the Municipal Freedom of information and protection of Privacy Act. Questions about this collection should be directed to Burlington Hydro Engineering department, 1340 Brant Street, ON L7R 3Z7; email: [generation@burlingtonhydro.com](mailto:generation@burlingtonhydro.com)

**\*\*\*Customers must sign this portion; third party signatures will not be accepted\*\*\***

**Signature** \_\_\_\_\_

**Name** \_\_\_\_\_

**Date** \_\_\_\_\_

**Please complete this form and the attached content and return it to:**

Burlington Hydro Inc  
1340 Brant Street  
Burlington, ON L7R 3Z7  
Attention: Generation

Email: [generation@burlingtonhydro.com](mailto:generation@burlingtonhydro.com)

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By submitting a Form C, the Proponent authorized the collection by Burlington Hydro of the information set out in the Form C and other wise collected in accordance with the terms thereof, the terms of Burlington Hydro's 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 Burlington Hydro's distribution system.