Micro-Embedded Generation Connection Application - Form C
For Connection of Micro-Generation Facilities of ≤ 10kW

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 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 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, 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 10 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 10 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 10KW 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 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:** ☐ 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*) _____

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_{nrush}/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

*****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

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.