



Form C

Connection Application for Micro- Embedded Generation Facility

For Connection of Micro-Generation Facilities of $\leq 12kW$

This form is applicable to individual or multiple generating units at the Customer's facility with 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 generated harmonic levels must not exceed those given in the CAN/CSA-C61000-3-6 Standards.

For generation size up to 12 kW, a Connection Impact Assessment will not be required. There may be a limitation on the number of micro-generation facilities that can be connected to the same distribution feeder.

IMPORTANT: All fields below are mandatory, except where noted. Incomplete applications may be returned by Ottawa River Power.

Please return the completed form by mail or email to:

Ottawa River Power Corporation
283 Pembroke Street West
P.O. Box 1087
Pembroke, Ontario K8A 6Y6

By Email: engineering@orpowercorp.com

NOTE: Applicants are cautioned NOT to incur major expenses until application has been reviewed and *Ottawa River Power* approves to connect the proposed generation facility.

By submitting this Form, the Proponent authorizes the collection by Ottawa River Power, of the information set out in the Form C and otherwise collected in accordance with the terms hereof, the terms of Ottawa River Power's Conditions of Service, Ottawa River Power's 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 Ottawa River Power's distribution system.

Date of Application: _____ (dd / mm / yyyy)

IESO reference number: *(if applicable)* _____

1. Project/Customer Name: _____

2. Proposed In-Service Date: _____ (dd / mm / yyyy)

3. Project Information:

Owner

Company/ Person: _____

Contact: _____

Mailing Address: _____

Telephone: _____

E-mail: _____

Installer - Engineering Consultant

Company/ Person: _____

Contact: _____

Mailing Address: _____

Telephone: _____

E-mail: _____

Single Point of Contact: ☐ Owner ☐ Installer – Engineering Consultant

4. Project Location: Address _____

City/Town _____

Postal Code _____

5. Customer Status: Is the project being built at an existing customer location?

Existing Customer? ☐ Yes ☐ No

If yes, Account Number: _____

Name of Account Holder*:

(*must be the same name as applicant for Net Metering)

Are you an HST registrant? ☐ Yes ☐ No

If yes, please provide your HST registration number and a copy of your HST Registration:

HST _____ - _____ RT _____

6. Program Type:

- ☐ Net Metering
☐ Load Displacement
☐ Emergency Backup
☐ Other, please specify: _____

7. Project Type:

- | | |
|---|--|
| ☐ Solar Photovoltaic (rooftop) | ☐ Solar Photovoltaic (ground mount) |
| ☐ Wind Turbine | ☐ Battery Storage |
| ☐ Biomass | ☐ Bio-diesel |
| ☐ Diesel | ☐ Co-generation/Combined Heat and Power |
| ☐ Other, please specify: _____ | |

8. Generator Type:

- ☐ Inverter ☐ Synchronous ☐ Induction

9. Project Size:

Is there an existing DER at the project location?	☐ Yes	☐ No	
	Proposed	Existing	<i>(if applicable)</i>
Number of Units <i>(i.e. solar panels, batteries)</i>	_____	_____	
Nameplate Rating of Each Unit	_____ kW	_____ kW	
Total	_____ kW	_____ kW	
Number of Generators/Inverters	_____	_____	
Nameplate Rating of Each Unit	_____ kW	_____ kW	
Generator/Inverter Total	_____ kW	_____ kW	
Connecting on: ☐ single phase ☐ three phase			

10. 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 low voltage winding neutral
- ☐ Solid ☐ Ungrounded ☐ Impedance grounded: R: _____ X: _____ ohms

Note: The term 'High Voltage' refers to the connection voltage to the distribution system and 'Low Voltage' refers to the generator / inverter output voltage.

11. Generator / Inverter Information:

- a. Manufacturer: _____
- b. Model No. _____
- 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, please 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 system
☐ Manual ☐ Automatic
- k. Maximum inrush current upon generator or inverter connection (I_{inrush} / I_{rated}) _____ per unit

12. Grid Interface Controller (if applicable):

- a. Manufacturer: _____
- b. Model Number: _____

13. Type of Connection:

Refer to Electrical Safety Authority (ESA) reference document, "*Electrical Guidelines for Inverter-Based Micro Generation Facilities (12 kW and smaller)*".

- a. ☐ Parallel Meter Connection
- b. ☐ Net Metering / Load Displacement Connection

14. Single Line Diagram (SLD):

Provide an SLD of the DER facility including the location of the external disconnect switch and Interface Point to Ottawa River Power's distribution system.

Applicant Name (Print): _____

Date: _____