

Application Form

Net Metering for Generation Facilities

This form is applicable to individual or multiple generating units at the Customer's facility with total nameplate rating of 500 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.

The following information is required for all net metered generators with total generation of up to 500 kW.

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

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

1. Project Information:

Location (Street Address/City/or Lot No./Concession/Township/County, as applicable)

Owner

Company / Person: _____

Contact: _____

Mailing Address: _____

Telephone: _____

Fax: _____

E-mail: _____

Engineering Consultant (Electrical)

Company / Person: _____

Contact: _____

Mailing Address: _____

Telephone: _____

Fax: _____

E-mail: _____

2. Customer Status:

Existing Hydro One Customer? Yes No

If yes, Hydro One 10-digit Account Number: _____ - _____

Are you a GST registrant? Yes No

If yes, provide your GST registration number: _____ - _____ RT _____

3. Project Size:

Total generation capacity _____ kW

Are all generating units of the same type / size? Yes No

4. Generation Type (check all that apply):

- Wind Turbine
- Hydraulic Turbine
- Solar / Photovoltaic Cells
- Biomass
- Other, please specify _____

5. 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 Hydro One's distribution system, and 'Low Voltage' refers to the generator / inverter output voltage.

6. Generator / Inverter Information:

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

- 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 above question is Yes, to which standard(s), e.g. CSA C22.2 No. 107.1-01, UL 1741, etc.

j. Method of synchronizing the generator / inverter to Hydro One's system

Manual Automatic

k. Maximum inrush current upon generator or inverter connection (I_{inrush} / I_{rated})

_____ per unit

7. Grid Interface Controller (if applicable):

a. Manufacturer _____

b. Model No. _____

8. Single Line Diagram (only required for generators greater than 50 kW):

A Single Line Diagram (SLD) is required with this Application Form. The SLD should include, but not limited to:

- Customer's electrical system showing major electrical equipment, their ratings, location of fault interrupting devices (circuit breakers, fuses)
- Generating unit(s) and their connection arrangement to Customer's electrical system
- Protection, metering and proposed tripping schemes
- Isolating / disconnecting device for the isolation of the generating units(s) from Hydro One system: suitably rated, accessible (to Hydro One personnel), visible, gang operated, lockable.
- If applicable, information on customer owned step-up interface transformer: ratings, winding connections, grounding arrangements.

SLD Drawing Number: _____, Rev. _____

9. Location & Site Plan (only required for generators greater than 50 kW):

Provide a site plan (sketch) showing electric service entrance, step-down transformer, generator(s) / inverter(s) location, existing / new switchgear, location of the isolating / disconnecting device (for Hydro One use), adjoining street name, and street address.

Drawing / Sketch No. _____, Rev. _____

Note: *Additional information may be required. Hydro One will inform you of what additional information is required.*

Applicant: _____

(Signature)

Date: _____

(dd / mm / yyyy)



