



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, 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 North Bay Hydro Customer? Yes No

If yes, North Bay Hydro 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
- c. Grounding method of star connected high voltage winding neutral
 Solid Ungrounded Impedance grounded: (R+j X ohms) _____
- d. Low voltage winding connection delta star
Grounding method of star connected low voltage winding neutral
 Solid Ungrounded Impedance grounded: (R + jX 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 North Bay Hydro’s system

Manual Automatic

k. Maximum inrush current upon generator or inverter connection (Iinrush / Irated) 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 North Bay Hydro 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 North Bay Hydro 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)

Please return this form by fax or mail to:

Manager, Operations, North Bay Hydro
Fax: (705) 474-3138

North Bay Hydro, Attn: Manager, Operations
PO Box 3240, 74 Commerce Cr
North Bay, ON, P1B 8Y5



APPENDIX A: Generator / Inverter Information For Additional Turbines

(For generation facilities installing more than one type of generator)

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 North Bay Hydro’s system
 Manual **Automatic**

k. Maximum inrush current upon generator or inverter connection (Inrush / Irated)
per unit

REVISION HISTORY

Rev #	Description	Date	Approval
1	Net Metering Application	11/24/2006	M. Mantha