Micro Generation (12kW or Less) Connection Application

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.

IMPORTANT: All fields below are mandatory, except where noted. Incomplete applications may be returned by North Bay Hydro. Submission of a single line diagram (SLD) and applicable generator equipment specifications is required with this application.

Please return the completed form by email, mail or fax to:

North Bay Hydro
74 Commerce Crescent
North Bay, ON P1B 8G4
Email: DER@northbayhydro.com

Attention: Engineering

NOTE: Applicants are cautioned NOT to incur major expenses until North Bay Hydro approves to connect the proposed generation facility.

The following information is required for all generators with total generation of up to 12 kW.

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

Net Metering reference number: *Assigned by North Bay Hydro* _____

1. **Project/Customer Name:** _____
2. **HST Registration# (If applicable):** _____
3. **Proposed In-Service Date:** (dd/mm/yyyy) _____
4. **Project Information:**

Owner
Company/ Person: _____
Contact: _____

Mailing Address: _____

Telephone: _____

Fax: _____

E-mail: _____

Customer Contractor (Electrical) (optional)

Company/ Person: _____

Contact: _____

Mailing Address: _____

Telephone: _____

Fax: _____

E-mail: _____

5. Project Location: Address _____

City/Town/Township _____

Lot Number(s) _____

Concession Number(s) _____

6. Program Type:

A. Net Metering

B. Non-Exporting - ***A generation or energy storage system designed and controlled so that electricity is used solely on-site and is not exported to the LDC distribution system. Customers receiving incentives through the Home Renovation Savings Program must select this option, as such facilities are not eligible for Net Metering and must not enter into a Net Metering Agreement for the installed system.***

7. Customer Status:

Existing North Bay Hydro Customer? ☐ Yes ☐ No

If yes, North Bay Hydro Account Number: _____ - _____

Name of Account Holder*: _____
(*must be the same name as applicant)

8. 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

9. Fuel Type:

☐ Wind Turbine

☐ Hydraulic Turbine

☐ Solar / Photovoltaic Cells (Rooftop)

☐ Solar / Photovoltaic Cells (Ground Mount)

☐ Biomass

☐ Bio-diesel

☐ Bio-gas

☐ Other, please specify _____

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 North Bay Hydro's distribution system and 'Low Voltage' refers to the generator / inverter output voltage.

11. Generator / Inverter Information:

(For generation facilities installing more than one type of generator, complete section 10)

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 North Bay Hydro's 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: _____