# 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**

**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: _____