



# Form C - Micro-Generation Connection Application

## For Connection of Micro-Generation Facilities of $\leq 10\text{kW}$

This form is applicable to individual or multiple generating units at the customer's facility with a total nameplate rating of 10 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 10 kW, a Connection Impact Assessment will not be required and Sioux Lookout Hydro will not perform such an assessment. 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 Sioux Lookout Hydro.

If you have any questions contact Sioux Lookout Hydro by email to [info@siouxlookouthydro.com](mailto:info@siouxlookouthydro.com) or telephone 1-807-737-3800.

**Return the completed form, fees and other required documents by mail, email or fax to:**

Sioux Lookout Hydro Inc.  
 25 Fifth Ave., PO Box 908  
 Sioux Lookout, Ontario, P8T 1B3  
 Email: [info@siouxlookouthydro.com](mailto:info@siouxlookouthydro.com)

**Fax: 807-737-2832 - Attention: Net Metering - Embedded Generation**

**NOTE:** Applications are cautioned NOT to incur major expenses until Sioux Lookout Hydro approves to connect the proposed generation facility.

Date: \_\_\_\_ (dd/mm/yyyy)

1. microFIT Reference Number: \_\_\_\_\_ (not required for Net Metering applications)
2. Project / Customer Name: \_\_\_\_\_
3. Proposed In-Service Date: \_\_\_\_ (dd/mm/yyyy)
4. Project Information

	Owner (mandatory)	Engineering Consultant (Electrical) (optional)
Company / Person		
Contact		
Mailing address line 1		
Mailing address line 2		
Telephone		
Cell		
Fax		



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Email		
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5. **Project Location:** Address \_\_\_\_\_  
City / Town / Township \_\_\_\_\_  
Lot number(s) \_\_\_\_\_  
Concession number(s) \_\_\_\_\_

6. **Connection to Sioux Lookout Hydro's Distribution System:**

- a. Connection voltage to Sioux Lookout Hydro's distribution system: \_\_\_\_\_ kV
- b. Station: \_\_\_\_\_
- c. Feeder: \_\_\_\_\_

7. **Program Type:**

A.  **microFIT** (*complete all sections*)

B. **Net Metering to microFIT Conversion**

- i.  Existing Net Metering customer upgrading generation size and/or technology/fuel type, up to 10 kW (*complete all sections*)
- ii.  Existing Net Metering customer with no upgrades in generation size and/or technology/fuel type, up to 10 kW (*complete sections 6, 7 and 8 only*)

C.  **Net Metering** (*complete all sections*)

D.  **Load Displacement**

8. **Customer Status**

Are you an existing Sioux Lookout Hydro customer?  Yes  No  
If yes, Sioux Lookout Hydro 12-digit account number: \_\_\_\_\_  
Customer name registered on this account: \_\_\_\_\_  
Are you a Goods and Service Tax (GST) registrant?  Yes  No  
If yes, provide your GST registration number: \_\_\_\_\_ - \_\_\_\_\_ RT \_\_\_\_\_

9. **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

10. **Fuel Type:**

Wind Turbine  Hydraulic Turbine



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- |   |  |
|---|--|
| <input type="checkbox"/> Solar/Photovoltaic Cells - rooftop | <input type="checkbox"/> Solar/Photovoltaic Cells - ground mount |
| <input type="checkbox"/> Biomass                            | <input type="checkbox"/> Bio-diesel                              |
| <input type="checkbox"/> Bio-gas                            | <input type="checkbox"/> Other ( <i>please specify</i> )         |

### 11. 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 high voltage winding neutral  
 Solid  Ungrounded  Impedance grounded: R\_\_\_\_X\_\_\_\_ohms

Note: The term "high voltage" refers to the connection voltage to Sioux Lookout Hydro's distribution system and "low voltage" refers to the generator / inverter output voltage.

### 12. Generator / Inverter Information:

- a. Manufacturer: \_\_\_\_\_
- b. Model Number: \_\_\_\_\_
- 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 (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 Sioux Lookout Hydro's system?  
 Manual  Automatic
- k. Maximum inrush current upon generator or inverter connections ( $I_{inrush}/I_{rated}$ ) \_\_\_\_\_ per unit

### 13. Grid Interface Controller (*if applicable*):

- a. Manufacturer: \_\_\_\_\_ Model Number: \_\_\_\_\_

### 14. Type of Connection:

Select the Single Line Diagram below that is appropriate for your connection to the Sioux Lookout Hydro distribution system.

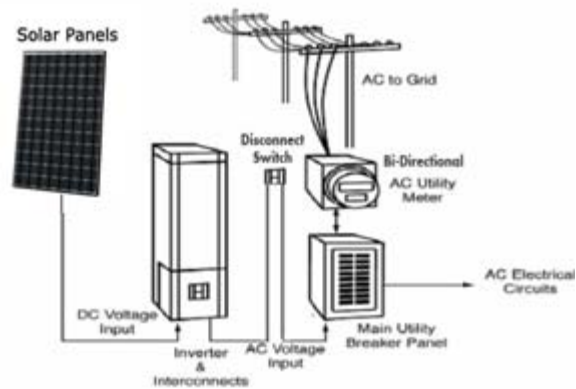
- a.  Diagram 1 - Net Metering Connection
- b.  Diagram 2 - Parallel Metering Connection



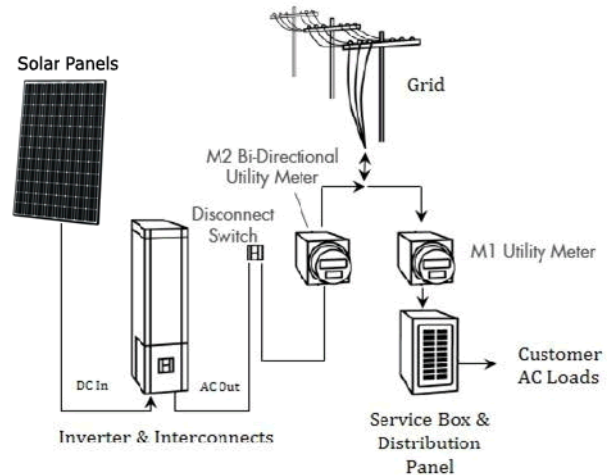
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a. Diagram 1 - Net Metering Connection



b. Diagram 2 - Parallel Metering Connection



By submitting a Form C, the Proponent authorized the collection by Sioux Lookout Hydro of the information set out in the Form C and other wise collected in accordance with the terms thereof, the terms of Sioux Lookout Hydro's Conditions of Service, Sioux Lookout Hydro'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 Sioux Lookout Hydro's distribution system.