



## Form C Micro-Generation Connection Application Distribution System

For Connection of Micro-Generation Facilities of  $\leq 10$  kW

This form is applicable to individual or multiple generating units at the Customer's facility with 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.

Refer to [Distributed Generation Technical Interconnection Requirements - Interconnections at Voltages 50kV and Below](http://www.hydroone.com/Generators/FITmicroFIT/Pages/TechnicalRequirements.aspx) <http://www.hydroone.com/Generators/FITmicroFIT/Pages/TechnicalRequirements.aspx>

For generation size up to 10 kW, a Connection Impact Assessment will not be required and Hydro One 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 Hydro One Networks Inc. ("Hydro One").

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

Hydro One Networks Inc.  
Attn: Business Customer Centre  
Generation Connections  
185 Clegg Road  
Markham, Ontario L6G 1B7  
Email: [dxgenerationconnections@hydroone.com](mailto:dxgenerationconnections@hydroone.com)  
Telephone: 1-877-447-4412 option 2

**FAX: 905-944-3308**  
**Attention: Generation Connections**

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

The following information is required for all generators with total generation of up to 10 kW.

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

microFIT reference number\*: \_\_\_\_\_

(\*Please ensure you have received a **Conditional Offer from the OPA** before applying. Reference number not required for Net Metering applications)

1. Project/Customer Name: \_\_\_\_\_

2. **Proposed In-Service Date:** \_\_\_\_\_(dd / mm / yyyy)

3. **Project Information:**

**Owner**

Company/ Person: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Mailing Address: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-mail: \_\_\_\_\_

**Engineering Consultant (Electrical) (optional)**

Company/ Person: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Mailing Address: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-mail: \_\_\_\_\_

4. **Project Location:** Address \_\_\_\_\_  
 City/Town/Township \_\_\_\_\_  
 Lot Number(s) \_\_\_\_\_  
 Concession Number(s) \_\_\_\_\_

5. **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)**

6. **Customer Status:**

Existing Hydro One Customer?  Yes  No

If yes, Hydro One 10-digit Account Number: \_\_\_\_\_ - \_\_\_\_\_

Name of Account Holder\*: \_\_\_\_\_  
 (\*must be the same name as applicant for Net Metering)

Are you a GST registrant?  Yes  No

If yes, provide your GST registration number: \_\_\_\_\_ - \_\_\_\_\_ RT \_\_\_\_\_

7. **Project Size:**

Number of Units       1



Nameplate Rating of Each Unit 10 kW  
 Generator connecting on  single phase  three phase  
 Existing Total Nameplate Capacity 10 kW  
 Proposed Total Nameplate Capacity 10 kW

**8. Fuel Type:**

- Wind Turbine
- Hydraulic Turbine
- Solar / Photovoltaic Cells (Rooftop)
- Solar / Photovoltaic Cells (Ground Mount)
- Biomass
- Bio-diesel
- Bio-gas
- Other, please specify \_\_\_\_\_

**9. Customer Owned Step-up Interface Transformer (if applicable): NOT REQUIRED IF YOU PURCHASE A 600V inverter, only used if you purchase a 208 V inverter and required a step up 208-600V inverter**

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- 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.

**10. Generator / Inverter Information:**

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

- a. Manufacturer: Solectria
- b. Model No. PVI 10KW-600V
- c. Number of phases  Single Phase  Three Phase
- d. Nameplate rating: 10 kW
- e. Generator / Inverter AC output voltage 600 Volts
- f. Type of inverter:  Self-commutated  Line-commutated



Other, please specify CPU

**CONTROLLED**

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.

**CERTIFIED TO CSA22.2 NO.107.1 AND UL1741**

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

Manual       Automatic

k. Maximum inrush current upon generator or inverter connection ( $I_{inrush} / I_{rated}$ ) 1 per unit

#### 11. Grid Interface Controller (if applicable):

a. Manufacturer: SOLECTRIA      Model Number: PVI

**10KW-600v**

#### 12. Type of Connection:

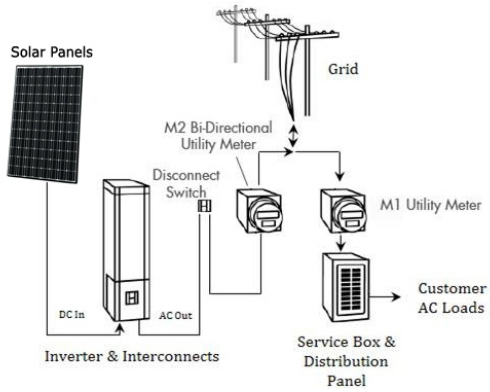
Select the Single Line Diagram below that is appropriate for your connection to the Hydro One distribution system:

Note: For further information on connections please refer to our website at:

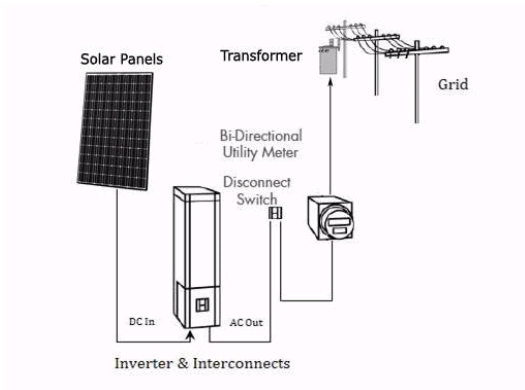
<http://www.hydroone.com/Generators/FITmicroFIT/Pages/microFIT.aspx>

- a.  Alternative #1 - Parallel Metering Connection
- b.  Alternative #2 - Stand-Alone Connection
- c.  Net Metering Connection

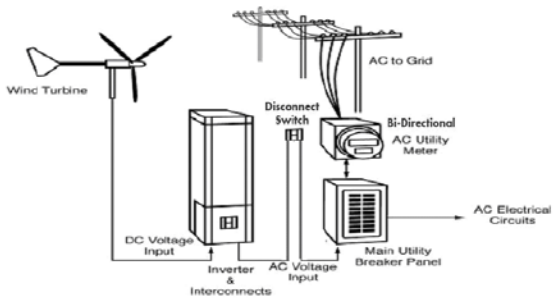
Alternative #1 - **Typical Parallel Metering Connection**



Alternative #2 - Stand-Alone Connection



Typical Net Metering Connection





**By submitting a Form C, the Proponent authorizes the collection by Hydro One Networks Inc. (“Hydro One”), of the information set out in the Form C and otherwise collected in accordance with the terms hereof, the terms of Hydro One’s Conditions of Service, Hydro One’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 Hydro One’s distribution system.**