Form C
DER Connection Application
Distribution System

For Connection of Micro-Generation Facilities of ≤10 kW

This form is applicable to individual or multiple generation units at the Customer's facility with a total nameplate rating of 10 kW of less. Your generation facility must generate electricity from a renewable energy source that is wind, water, solar radiation or agriculture 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 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 Festival Hydro Inc. ("Festival Hydro").

Please return the completed form by email or mail to:

Festival Hydro Inc.
Engineering Department
187 Erie Street
PO Box 397
Stratford, ON N5A 6T5
Email: der@festivalhydro.com

NOTE: Applicants are cautioned NOT to incur major expenses until Festival Hydro approves to connect the proposed generation facility. An estimate of the connection fee will be provided with the "Offer to Connect" (Service Layout).

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

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

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 Festival Hydro Customer? ☐ Yes ☐ No

If yes, Festival Hydro 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 _____
Nameplate Rating of Each Unit _____ kW
Generator connecting on ☐ single phase ☐ three phase
Existing Total Nameplate Capacity _____ kW
Proposed Total Nameplate Capacity _____ 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):

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 Festival Hydro'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: _____

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 to Festival Hydro's system
☐ Manual ☐ Automatic

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

11. Grid Interface Controller (if applicable):

a. Manufacturer: _____ Model Number: _____

12. Type of Connection:

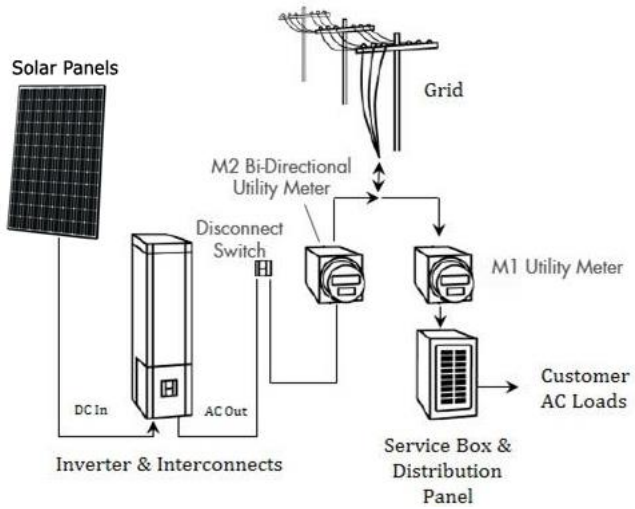
Select the Single Line Diagram below that is appropriate for your connection to the Festival Hydro distribution system:

a. ☐ Alternative #1 - Parallel Metering Connection

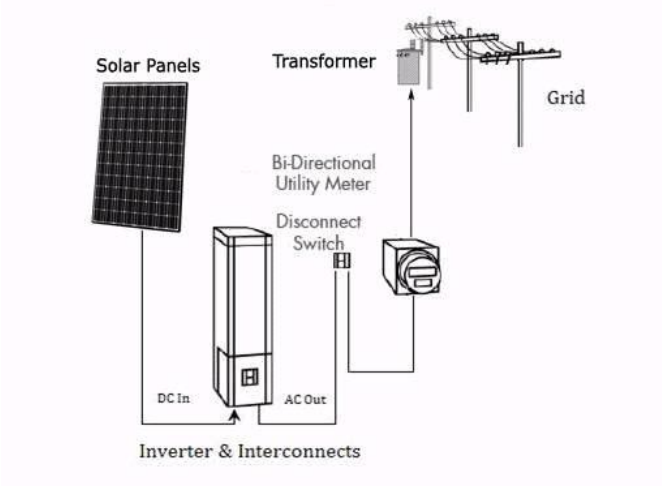
b. ☐ Alternative #2 - Stand-Alone Connection

c. ☐ Net Metering Connection

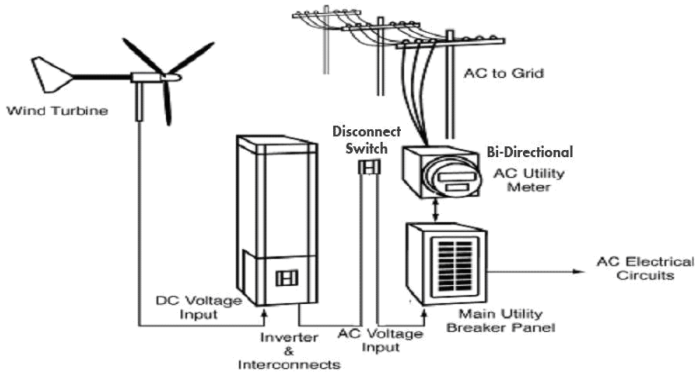
Alternative #1 - **Typical Parallel Metering Connection**



Alternative #2 - **Stand-Alone Connection**



Typical Net Metering Connection



By submitting a Form C, the Proponent authorizes the collection by Festival Hydro Inc. ("Festival Hydro"), of the information set out in the Form C and otherwise collected in accordance with the terms hereof, the terms of Festival Hydro's Conditions of Service, Festival 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 Festival Hydro's distribution system. Upon connection to the FHI system, the Proponent agrees to sign the standard "Micro Generation Agreement" which is based on the OEB template found in Appendix E of the Distribution System Code.