

# Form C: Micro-Distributed Energy Resource (DER) Connection Application For connection of Micro-DER Facilities of ≤ 10 kW

This form is applicable to individual or multiple generating units at the Customer's facility with total nameplate ratings of <u>10 kW or less</u>. Your generation facility must generate electricity from a renewable energy resource 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. There may be limitations on the number of micro-generation facilities that can be connected to the same transformer or distribution feeder.

**IMPORTANT:** All Fields below are mandatory, except where noted. Incomplete applications may be returned by Renfrew Hydro Inc. (RHI).

Please return the completed application by mail or email to:

Renfrew Hydro Inc. B-499 O'Brien Rd Renfrew ON K7V 3Z3

Email: info@renfrewhydro.com

**PLEASE NOTE:** Applicants are cautioned NOT to incur major expenses until the application has been reviewed and RHI has approved to connect the proposed generation facility.

By submitting this form, the Proponent authorizes the collection by RHI, of the information set out in Form C and otherwise collected in accordance with the terms hereof, the terms of RHI's Conditions of Service, Privacy Policy and the requirements of the Distribution System Code and the use of such information for the purposes of connection of the generation facility to RHI's distribution system.

Date of Application (dd/mm/yyyy):									
IES	O Reference Number (if applicable):								
1.	Project/Customer Name:								
2.	Proposed In-Service Date:								
3.	Project Information								
	Owner Company/Customer Name: Contact Name: Mailing Address: Telephone Number: Email Address:								
	Installer – Engineering Consultant         Company/Engineer's Name:         Contact Name:         Mailing Address:         Telephone Number:         Email Address:								
	Single Point of Contact: O Owner O Installer – Engineering Consultant								
4.	Project Location								
	Service Address: City: Postal Code:								
5.	Customer Status:								
	Existing Customer? O Yes O No If yes, please provide the ten-digit account number:								
	Name of Account Holder:* *must be the same name as the Net Metering Applicant								
	Are you an HST registrant? O Yes O No								
	If yes, please provide your HST registration number and a copy of your HST registration:								

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6.	<ul><li>Ne</li><li>Loa</li><li>Err</li></ul>	m Type: t Metering ad Displacement hergency Backup her, please specify: _								
7.	<ul> <li>So</li> <li>Wi</li> <li>Bio</li> <li>Die</li> </ul>	ject Type:Solar Photovoltaic (rooftop)OSolar Photovoltaic (ground mount)Wind TurbineOBattery StorageBiomassOBio-dieselDieselOCo-generation/Combined Heat and PowerOther, please specify:								
8.		<b>ator Type:</b> rerter	O Synchronou	JS		0	Inductio	า		
9.	Numbe Namer Total Numbe Namer Genera	t Size: e an existing DER at er of Units (i.e. solar blate Rating of Each er of Generators/Inve blate Rating of Each ator/Inverter Total cting on:	panels, batterie Unit erters		Pro	Yes posed Single	○ N _kW _kW _kW _kW _kW	Exi	sting (if	applicable) - - kW - kW - - kW - kW - kW
10.	а.	mer Owned Step-u Transformer rating	kV/		-	<b>f applic</b> Delta	cable):	0	Star	
	D.	High voltage windir Grounding method O Solid	-	-	gh vol	tage wii Impeda	nding neu ance grou _ X:c	tral nded:		
	c.	Low voltage windin Grounding method O Solid	-		v volt	Impeda	iding neut ance grou _ X:c	nded:	Star	

**Note:** The term 'High Voltage' refers to the connection voltage to the distribution system and 'Low Voltage' refers to the generator/inverter output voltage.

#### 11. Generator / Inverter Information:

- a. Manufacturer: \_\_\_\_\_ **b.** Model No.: \_\_\_\_\_ ○ Single Phase ○ Three Phase **c.** Number of phases: d. Nameplate rating: \_\_\_\_\_kW e. Generator / Inverter AC output voltage: \_\_\_\_\_\_Volts **f.** Type of inverter: O Self-commutated Line-commutated Other, please specify \_\_\_\_\_ g. Are power factor correction capacitors automatically switched off when generator breaker opens? O Yes O No **h.** Is the generator/inverter paralleling equipment and/or design pre-certified and meets anti-islanding test requirements? O Yes O No i. If answer to the above question is yes, to which standard(s), e.g. CSA C22.2 No. 107.1-01, UL1741): **i.** Method of synchronizing the generator/inverter system O Manual Automatic **k.** Maximum inrush current upon generator or inverter connection (|inrush / |rated) \_\_\_\_\_ per unit **12.** Grid Interface Controller (if applicable):
  - a. Manufacturer: \_\_\_\_\_\_
  - **b.** Model Number: \_\_\_\_\_\_

### 13. Type of Connection:

Refer to Electrical Safety Autority (ESA) reference document, "*Electrical Guidelines for Inverter-Based Micro Generation Facilities (10kW and smaller).*"

O Parallel Meter Connection O Net Metering/Load Displacement Connection

### 14. Single Line Diagram (SLD):

Provide an SLD of the DER facility including the location of the external disconnect switch and Interface Point to RHI's distribution system.

### Applicant Name (Print): \_\_\_\_\_\_

## Applicant Signature: \_\_\_\_\_\_

Date (dd/mm/yyyy):