

In consideration of Guelph Hydro Electric Systems Inc. ("Guelph Hydro") agreeing to allow you to connect your microFIT (10 kW name-plate rated capacity or smaller) generation facility to Guelph Hydro's distribution system, you hereby agree to the following terms and conditions.

1. Eligibility

- 1.1. You agree that your generation connection shall be subject to all applicable laws as amended from time to time, and shall be bound by the terms and conditions of Guelph Hydro's Conditions of Service as amended from time to time as filed with the Ontario Energy Board, available on the Guelph Hydro website or upon request.

2. Technical Requirements

- 2.1. You represent and warrant that you have installed, or will install prior to the connection of your generation facility to Guelph Hydro's distribution system, an isolation device satisfying Section 84 of the Ontario Electrical Safety Code and you agree to allow Guelph Hydro's staff access to and operation of this device at all times as required for the maintenance and repair of Guelph Hydro's distribution system.
- 2.2. You agree to perform regular scheduled maintenance on your generation facility as outlined by the manufacturer in order to assure that connection devices, protection systems, and control systems are maintained in good working order and in compliance with all applicable laws as amended from time to time.
- 2.3. You agree that during a power outage on Guelph Hydro's distribution system, your generation facility will shut down. You agree to the automatic disconnection of your generation facility from Guelph Hydro's distribution system, as per the generator protective relay settings set out in this Agreement, in the event of a power outage on Guelph Hydro's distribution system or any abnormal operation of Guelph Hydro's distribution system.
- 2.4. You covenant and agree that the design, installation, maintenance, and operation of your generation facility are and will be conducted at all times in a manner that ensures the safety and security of both your generation facility and Guelph Hydro's distribution system.
- 2.5. Due to Guelph Hydro's obligation to maintain the safety and reliability of its distribution system, you acknowledge and agree that in the event Guelph Hydro determines that your generation facility (i) is causing or is likely to cause damage to; and/or (ii) is producing or is likely to produce adverse effects affecting other distribution system customers or Guelph Hydro's assets, you will disconnect your generation facility immediately from the distribution system upon direction from Guelph Hydro and correct the problem at your own expense prior to reconnection.

3. Liabilities

- 3.1. You and Guelph Hydro will indemnify and save Guelph Hydro harmless for all damages and/or adverse effects resulting from either party's negligence or willful misconduct in the connection and operation of your generation facility or Guelph Hydro's distribution system.
- 3.2. Guelph Hydro and you shall not be liable to each other under any circumstances whatsoever for any loss of profits or revenues, business interruptions losses, loss of contract or loss of goodwill, or for any indirect, consequential, incidental or special damages, including but not limited to punitive or exemplary damages, whether any of the said liability, loss or damages arise in contract, tort or otherwise.

4. Compensation and Billing

- 4.1. If you are not an embedded retail generator, you agree that, subject to any applicable law:
 - a) Guelph Hydro will not pay you for any excess generation that results in a net delivery to Guelph Hydro between meter reads; and
 - b) there will be no carryover of excess generation from one billing period to the next unless you are, at the relevant time, a net metered generator (as defined in Section 6.7.1 of the Distribution System Code)
- 4.2. If you are an embedded retail generator selling output from your embedded generation facility to the Independent Electricity System Operator (IESO) under contract, you agree that Guelph Hydro will pay you for generation in accordance with the Retail Settlement Code.
- 4.3. If you are an embedded retail generator delivering and selling output to Guelph Hydro, you agree that Guelph Hydro will pay you for generation in accordance with the Retail Settlement Code.

5. Termination

- 5.1. You understand that you have the right to terminate this Agreement at any time, and that by doing so you are required to disconnect your generation facility and notify Guelph Hydro of such action 90 days in advance.
- 5.2. You agree that Guelph Hydro may require changes to this Agreement from time to time in order to comply with changes to applicable laws.
- 5.3. You agree to notify Guelph Hydro 30 days in advance of any alteration to your generation facility.

6. Assignment

- 6.1. You may assign your rights and obligations under this Agreement only with the prior written consent of Guelph Hydro, which shall not withhold its consent unreasonably. Guelph Hydro shall have the right to assign its rights and obligations under this Agreement without your consent.

I understand, accept and agree to comply with and be bound by the above terms and conditions governing the connection of my generation facility to Guelph Hydro's distribution system.

Applicant Signature: _____ Date: _____

Print First and Last Name: _____

Guelph Hydro Account Number: _____

Address of Generation Facility: _____

I confirm that the following information is true and accurate:

For Solar PV:

Total Nameplate Capacity _____ kW (Panels) _____ kW (Inverters)

For All Other Generation:

Nameplate Rating of Generator: _____ kW Total Installed Generation: _____ kW

Provide IESO microFIT Reference Number: _____

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

Inverter Utilized: Yes No

Inverter Certification: C22.2 #107.1 UL 1741 Site Certified by the ESA

To be completed by Guelph Hydro:	Station _____ Feeder _____
	Address _____ Date Connected _____

Generator Protective Relay Settings

Table 1 – Inverter Based Generation

The following relay settings shall be used for inverters built to the CSA standard: (Source: CSA C22.2 No. 107.1-01 Table 16)

System Voltage: V (Volts) Vn = V nominal	Frequency F (Hertz)	Maximum number of cycles to disconnect	
		Seconds	Cycle
$V < 0.5 V_n$	60	0.1	6
$0.5 V_n \leq V < 0.88 V_n$	60	2	120
$1.10 V_n \leq V < 1.37 V_n$	60	2	120
$V > 1.37 V_n$	60	0.033	2
Vn	$F < 59.5^*$	0.1	6
Vn	$F > 60.5$	0.1	6

*The UL1741 & IEEE P1547 Standards use $F < \text{rated} \cdot 0.7$ (i.e. 59.3 Hz). (To be updated if CSA C22.2 No. 107.1-01 is changed).

Table 2 – Non-Inverter Generation

Guelph Hydro’s minimum requirements for other generation are as follows:

System Voltage: V (Volts) Vn = V nominal	Frequency F (Hertz)	Maximum clearing time*	
		Seconds	Cycle
$V < 0.5 V_n$	60	0.16	9.6
$0.5 V_n \leq V < 0.88 V_n$	60	2	120
$1.10 V_n \leq V < 1.20 V_n$	60	1	60
$V > 1.20 V_n$	60	0.16	9.6
Vn	$F < 59.3$	0.16	9.6
Vn	$F > 60.5$	0.16	9.6

*Clearing time is the time between the start of the abnormal condition and the generator ceasing to energize Guelph Hydro’s distribution system.

- If you are uncertain about your generation equipment’s protective relay settings, please check with your generating equipment supplier.
- Automatic reconnect setting time for your generator is after 5 minutes of normal voltage and frequency on Guelph Hydro’s distribution system.