



In consideration of Guelph Hydro Electric Systems Inc. (“Guelph Hydro”) agreeing to allow you to connect your *Net Metering* generation facility to Guelph Hydro’s distribution system, you hereby agree to the following terms and conditions.

**1. Eligibility**

- 1.1. Your generation facility must generate electricity solely from wind, a drop in water elevation, solar radiation, an agricultural bio-mass resource or any combination of the foregoing.
- 1.2. The electricity generated by your generation facility must be primarily for your own use.
- 1.3. You agree that your generation connection shall be subject to all applicable laws as amended periodically, 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 (OEB) and which are available on request.
- 1.4. You are not participating in Ontario’s Standard Offer Program or any other program wherein you will be paid or receive some other form of consideration for the electricity generated by your generation facility.

**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 the 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, statutes, codes, licensing requirements, directives, rules, regulations, protocols, policies, orders, injunctions, rulings, awards, judgments or decrees or any requirement or decision or agreement with or by any government or government department, commission, board, court authority or agency.
- 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. You will be billed in accordance with the Ontario Regulation 541/05 – Net Metering and any amendments related to this regulation.
- 4.2. If you have a contract with an electricity retailer, you agree that the following applies:

- 4.2.1. You are billed under the bill-ready form of distributor-consolidated billing pursuant to the Retail Settlement Code; and
- 4.2.2. You will not be eligible to be billed on a net metering basis unless the retailer confirms to Guelph Hydro that you and the retailer have an agreement allowing you to return eligible electricity to the retailer for billing on a net metering basis.
- 4.3. If you are not an embedded retail generator, you agree that, subject to any applicable law:
  - 4.3.1. Guelph Hydro will not pay you for any excess generation that results in a net delivery to Guelph Hydro between meter reads; and
  - 4.3.2. 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)
- 4.4. 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.
- 4.5. 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.
- 4.6. If you are a HST registrant, you are required to charge Guelph Hydro for HST on the electricity you generated for input into Guelph Hydro's distribution system. Guelph Hydro is also required to bill you for HST on the amount of electricity you used from Guelph Hydro's distribution system. Both amounts of HST will be shown on your bill. You may wish to consult your accountant regarding HST treatment.
- 4.7. If you are not a HST registrant, Guelph Hydro is required to charge HST for the electricity you used from Guelph Hydro's distribution system. Guelph Hydro is not permitted to net the amount of electricity you generated against what you used for the calculation and remittance of HST.

**5. Termination**

- 5.1. You understand that you have the right to terminate this Agreement at any time in accordance with the Ontario Regulation 541/05 – Net Metering, with 90 days advance notice to Guelph Hydro.
- 5.2. You acknowledge and agree that upon termination of this agreement, Guelph Hydro's Generation Meter (refer to Single Line Diagram – Typical Net Metering Configuration (≤ 10 kW)) will remain in place to support Guelph Hydro distribution system operations, unless the generation facility is completely removed from service.

**6. General**

- 6.1. You agree that Guelph Hydro may require changes to this Agreement from time to time in order to comply with changes to applicable laws.
- 6.2. You agree to notify Guelph Hydro 30 days in advance of any alteration to your generation facility.
- 6.3. This Agreement shall be binding upon you and your heirs, executors, administrators, successors and assigns.
- 6.4. This Agreement shall be governed by and interpreted in accordance with the laws of the Province of Ontario and any action or proceeding brought to interpret or enforce this contract shall be commenced in the court of Ontario and not elsewhere.

**7. Assignment**

- 7.1. 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 Energy Storage:**

Total Nameplate Capacity \_\_\_\_\_ kW (Batteries)

**For all other Generation:**

Nameplate rating of Generator: \_\_\_\_\_ kW Total installed generation \_\_\_\_\_ kW

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

<b>To be completed by Guelph Hydro:</b>	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 Vn	60	0.1	6
0.5 Vn ≤ V < 0.88 Vn	60	2	120
1.10 Vn ≤ V < 1.37 Vn	60	2	120
V > 1.37 Vn	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 < rated-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 Vn	60	0.16	9.6
0.5 Vn ≤ V < 0.88 Vn	60	2	120
1.10 Vn ≤ V < 1.20 Vn	60	1	60
V > 1.20 Vn	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.