



Milton Hydro Distribution Inc.

Micro-Embedded Generation Facility Connection Agreement

8069 Lawson Rd
Milton, Ontario
L9T 5C4
Phone: (905) 876-4611
Fax: (905) 876-2044

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

1.0 Eligibility

- 1.1 You agree that your generation connection shall be subject to all applicable laws and bound by the terms and conditions of MHDI's Conditions of Service as amended from time-to-time, which have been filed with the OEB and are available on request.

2.0 Technical Requirements

- 2.1 You represent and warrant that you have installed or will install prior to the connection of your generation facility to MHDI's distribution system, an isolation device satisfying Section 84 of the Ontario Electrical Safety Code and agree to allow MHDI's staff access to and operation of this as required for the maintenance and repair of the distribution system.
- 2.2 You agree to perform regular scheduled maintenance to 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.
- 2.3 You agree that during a power outage on MHDI's system, your generation facility will shut down, unless you have installed special transfer and isolating capabilities on your generation facility. You agree to the automatic disconnection of your generation facility from MHDI's distribution system, as per the generator protective relay settings set out in this Agreement, in the event of a power outage on MHDI's distribution system or any abnormal operation of MHDI's distribution system.
- 2.4 You covenant and agree that the design, installation, maintenance, and operation of your generation facility are conducted in a manner that ensures the safety and security of both the generation facility and MHDI's distribution system.
- 2.5 Due to MHDI's obligation to maintain the safety and reliability of its distribution system, you acknowledge and agree that in the event MHDI determines that your generation facility (i) causes damage to; and/or (ii) is producing adverse effects affecting other distribution system customers or MHDI's assets, you will disconnect your generation facility immediately from the distribution system upon direction from MHDI and correct the problem at your own expense prior to reconnection.

3.0 Liabilities

- 3.1 You and MHDI will indemnify and save each other 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 MHDI's distribution system.
- 3.2 MHDI 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.

4.0 Compensation and Billing

- 4.1 If you are not an embedded retail generator, you agree that, subject to any applicable law:
 - a. MHDI will not pay you for any excess generation that results in a net delivery to MHDI 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 the embedded generation facility to the Ontario Power Authority under contract, you agree that MHDI 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 MHDI, you agree that MHDI will pay you for generation in accordance with the Retail Settlement Code.



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5.0 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 MHDI of such action.

6.0 Assignment

6.1 You may assign your rights and obligations under this Agreement with the consent of MHDI, which shall not withhold its consent unreasonably. MHDI 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 MHDI's distribution system.

Customer Signature: _____ Date: _____

Print name and MHDI account number: _____

I confirm that the following information is true and accurate:

Nameplate rating of Generator: _____ KW Total installed generation _____ KW

Generator applying for: Net Metering
 Feed-in-Tariff (FIT) Provide Reference Number from OPA: _____

Type: Wind Turbine Photovoltaic (Solar) Hydraulic Turbine Fuel Cell
 Other _____

Inverter Utilized: Yes No

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

*For office use: Station _____ Feeder _____ Date Connected _____
(to be filled by Milton Hydro)*

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 Vn ' V nominal V (Volts)	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 update if CSA C22.2 No. 107.1-01 is changed



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Table 2- Non Inverter Generation

MHDI's minimum requirements, for other generation are as follows:

System Voltage V_n 'V nominal V (Volts)	Frequency F (Hertz)	Maximum clearing time*	
		Seconds	Cycles
$V < 0.5 V_n$	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
$V \geq 1.20 V_n$	60	0.16	9.6
V_n	$F < 59.3$	0.16	9.6
V_n	$F > 60.5$	0.16	9.6

*Clearing time is the time between the start of the abnormal condition and the generation ceasing to energize MHDI'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 MHDI's distribution system.