Micro-Embedded Generation Connection Agreement

Burlington Hydro Inc. Distribution System

In consideration of Burlington Hydro Inc. ("Burlington Hydro") agreeing to allow you to connect your 10kW or name-plate rated capacity or smaller generation facility to Burlington Hydro'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 Burlington Hydro'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 Burlington Hydro's distribution system, an isolation device satisfying Section 84 of the Ontario Electrical Safety Code and agree to allow Burlington Hydro 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 to ensure 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 Burlington Hydro'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 Burlington Hydro's distribution system, as per the generator protective relay settings set out in this Agreement, in the event of a power outage on Burlington Hydro's distribution system or any abnormal operation of Burlington Hydro'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 Burlington Hydro's distribution system.

2.5 Due to Burlington Hydro's obligation to maintain the safety and reliability of its distribution system, you acknowledge and agree that in the event that Burlington Hydro determines that your generation facility (i) causes damage to; and/or (ii) is producing adverse effects affecting other distribution system customers or the Burlington Hydro's assets, you will disconnect your generation facility immediately from the distribution system upon direction from Burlington Hydro and correct the problem at your own expense prior to reconnection.

3.0 Liabilities

3.1 You and Burlington Hydro will indemnify and save each other harmlessly for all damage and/or adverse effects resulting from either party s negligence or willful misconduct in the connection and operation of your generation facility or the Burlington Hydro's distribution system.

3.2 Burlington 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.

4.0 Compensation and Billing

4.1 If you are not an embedded retail generator, you agree that, subject to any applicable law:

a. Burlington Hydro will not pay you for any excess generation that results in a net delivery to Burlington 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 the embedded generation facility to the Ontario Power Authority under contract, you agree that Burlington 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 Burlington Hydro, you agree that Burlington Hydro will pay you for generation in accordance with the Retail Settlement Code.

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 Burlington Hydro of such action.

For office use: Station _____Feeder_____Date Connected_____

6.0 Assignment

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

Customer Signature_____ **Date** _____

Print Name _____**LDC Account Number**_____

I confirm that the following information is true and accurate:

Nameplate rating of Generator _____**kW** **Total Installed Generation**_____**kW**

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**

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

Table 2: **Non-Inverter Generation**
Burlington Hydro's minimum requirements, for other generations are as follows

System Voltage Vn 'V Nominal **V (Volts)**	Frequency **F (Hertz)**	Maximum clearing time*	
		Seconds	Cycles
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 generation ceasing to energize the LDC 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 Burlington Hydro's distribution system

Note: Keep this complete agreement for use when your Burlington Hydro Field representative visits your site.

Please return to:
Burlington Hydro Inc
1340 Brant St
Burlington, On L7R 3Z7
Attention: Generation
Email: generation@burlingtonhydro.com