MICRO-EMBEDDED GENERATION FACILITY CONNECTION AGREEMENT

In consideration of Lakeland Power Distribution Ltd. ("LPDL") agreeing to allow you to connect your 10 kW name-plate rated capacity or smaller generation facility to the LPDL 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 LPDL's Conditions of Service as amended from time-to-time, which have been filed with the Ontario Energy Board and 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 LPDL's distribution system, an isolation device satisfying Section 84 of the Ontario Electrical Safety Code and agree to allow LPDL'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 the LPDL 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 the LPDL distribution system, as per the generator protective relay settings set out in this Agreement, in the event of a power outage on the LPDL distribution system or any abnormal operation of the LPDL 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 the LPDL distribution system.

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

3.0 Liabilities

3.1 You and LPDL 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 LPDL's distribution system.

3.2 LPDL 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) LPDL will not pay you for any excess generation that results in a net delivery to LPDL 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 LPDL 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 LPDL, you agree that LPDL 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 LPDL of such action.

6.0 Assignment

6.1 You may assign your rights and obligations under this Agreement with the consent of LPDL, which shall not withhold its consent unreasonably. LPDL shall have the right to assign its rights and obligations under this Agreement without your consent.

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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 the LPDL distribution system.

Customer Signature: _____ Date: _____

Print named and LPDL 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 #107.1-01 ☐ UL 1741 ☐ Site Certified by the ESA ☐

For office use:

Station: _____ *Feeder:* _____ *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 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

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

System Voltage Vn = V nominal V (Volts)	Frequency F (Hertz)	Maximum Number of Cycles to Disconnect	
		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 generation ceasing to energize LPDL'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 LPDL's distribution system.