

Net Metering - Connection Agreement

In consideration of Erie Thames Powerlines Corporation (“Erie Thames”) agreeing to allow you to connect your 500 kW nameplate rated capacity or smaller generation facility to the Erie Thames distribution system, you hereby agree to the following terms and conditions:

1.0 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 produced by your generation facility must be primarily for your own use.
- 1.3 The maximum cumulative output capacity of the equipment used to generate electricity shall be no greater than 500 kW based on the rated maximum output capacity of the equipment.
- 1.4 You agree that your generation connection shall be subject to all applicable laws and bound by the terms and conditions of the Distribution System Code and Erie Thames’s Conditions of Service.

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 Erie Thames distribution system, an isolation device satisfying Section 84 of the Ontario Electrical Safety Code and agree to Erie Thames staff 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, statues, 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 the Erie Thames 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 Erie Thames Powerlines distribution system, as per the generator protective relay settings set out in this Agreement, in the event of a power outage on the Erie Thames distribution system or any abnormal operation of the Erie Thames Powerlines 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 Erie Thames distribution system.

3.0 Liabilities

- 3.1 You covenant and agree that the design, installation, maintenance, and operation of your generation facility will not jeopardize the safety and security of both the generation facility and Erie Thames’s distribution system. This includes, but is not limited to, automatic disconnection of your generation facility from Erie Thames’s distribution system, as per Hydro One’s generator protective relay settings, in the event of a power outage affecting Erie Thames’s distribution system or any abnormal operation of Erie Thames’s distribution system. You acknowledge and agree that the protective relay settings of your generation facility are as specified in tables 1 and 2 of this Agreement
- 3.2 You acknowledge and agree that in the event that Erie Thames determines that your generation facility is causing damage to and/or is producing adverse effects affecting other distribution system

customers or Erie Thames assets, you will disconnect your generation facility immediately from the distribution system upon direction from Erie Thames and correct the problem at your own expense prior to reconnection and will indemnify and save harmless Erie Thames for all such damages and/or adverse effects.

- 3.3 Notwithstanding the generality of Section 3.2, you acknowledge and agree that in cases where your generation facility is connected to a Erie Thames transformer that you are responsible for and will indemnify Erie Thames for any and all damage to Erie Thames's equipment caused by the operation of your generation facility.

4.0 Compensation and Billing

- 4.1 If you purchase electricity from Erie Thames you agree that to be billed on a net metering basis, the following applies:
- a) Erie Thames will not pay you for any excess generation that results in a net delivery of energy to Erie Thames beyond a 12 month period.
 - b) Cumulative excess generation can only be carried forward for a period of up to 12 months to offset your future electricity costs.
- 4.2 If you have a contract with an electricity retailer, you agree that the following applies:
- a) You are billed under the bill-ready form of distributor-consolidated billing pursuant to the Retail Settlement Code; and
 - b) You will not be eligible to be billed on a net metering basis unless the retailer confirms with Erie Thames that you and the retailer have an agreement allowing you to return eligible electricity to the retailer for billings on a net metering basis.

5.0 Connection Costs

- 5.1 You agree to pay for the actual cost of modifications and upgrades to the distribution facilities required to connect your generation facility.

6.0 Termination

- 6.1 You understand that you have the right to terminate this agreement at any time with 30 days written notice, and that by doing so you are required to disconnect your generation facility and notify Erie Thames of such action.
- 6.2 You agree that Erie Thames reserves the right to terminate this Agreement on 30 days written notice:
- a) If Erie Thames discontinues the Net Metering program; or
 - b) If you breach a term of this Agreement and do not remedy the breach within 30 days of receiving written notice from Erie Thames of the breach.
- 6.3 You acknowledge and agree that upon termination of this Agreement, you must either disconnect your generation facility from Erie Thames's distribution system in a timely fashion and to Erie Thames's satisfaction.

7.0 Assignment

- 7.1 You may assign your rights and obligations under this Agreement with the consent of Erie Thames, which shall not withhold its consent unreasonably.
- 7.2 Erie Thames shall have the right to assign its rights and obligations under this Agreement without your consent.



8.0 General

- 8.1 This agreement shall be binding upon you and your heirs, executors, administrators, successors and assigns.
- 8.2 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.
- 8.3 None of the terms and conditions of this Agreement shall be modified or waived by any agreement or representation of any agent or employee of Erie Thames unless by proper written notice.

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 Erie Thames distribution system.

Name (Please Print): _____

Customer Signature: _____

Date: _____

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) Water Agricultural Bio-Mass

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** _____

Generator Protective Relay Settings

Relay settings shall be used for inverters built to the CSA standard as shown in Table 1 below (Source: CSA C22.2 No. 107.1-01 Table 16):

Table 1 -Inverter Based Generation

System Voltage $V_n = V$ nominal V (Volts)	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
$V \geq 1.37 V_n$	60	0.033	2
V_n	$F < 59.5^*$	0.1	6
V_n	$F > 60.5$	0.1	6

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

Erie Thames's minimum requirements for other generation are as shown in Table 2 below:

Table 2 – Generation Other Than That Covered by Table 1

System Voltage $V_n = V$ nominal V (Volts)	Frequency F (Hertz)	Maximum Number of Cycles to Disconnect	
		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
$V \geq 1.20 V_n$	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 the Erie Thames Powerlines 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 the Erie Thames Powerlines distribution system.