



Net Metering – Connection Agreement

In consideration of Wasaga Distribution Inc. (“W.D.I.”) agreeing to allow you to connect your 500 kW nameplate rated capacity or smaller generation facility to the W.D.I. 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 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 W.D.I.’s Conditions of Service.

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 W.D.I distribution system, an isolation device satisfying Section 84 of the Ontario Electrical Safety Code and agree to W.D.I. 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, 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 the W.D.I. 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 Wasaga Distribution Inc. distribution system, as per the generator protective relay settings set out in the Agreement, in the event of a power outage on the W.D.I. distribution system or any abnormal operation of the Wasaga Distribution Inc. 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 W.D.I. distribution system.

3. 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 W.D.I.’s distribution system. This includes, but is not limited to, automatic disconnection of your generation facility from W.D.I.’s distribution system, as per Hydro One’s generation protective relay settings, in the event of a power outage affecting W.D.I.’s distribution system or any abnormal operation of W.D.I.’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 W.D.I. determines that your generation facility is causing damage to and/or is producing adverse effects affecting other distribution system customers or W.D.I. assets, you will disconnect your generation facility immediately from the distribution system upon direction from W.D.I. and correct the problem at your own expense prior to reconnection and will indemnify and save harmless W.D.I. 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 W.D.I. transformer that you are responsible for and will indemnify W.D.I. for any and all damage to W.D.I.'s equipment caused by the operation of your generation facility.

4. Compensation and Billing

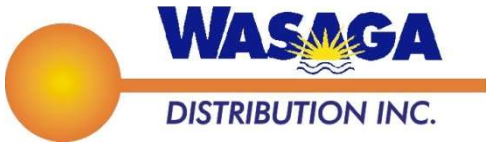
- 4.1. If you purchase electricity from W.D.I. you agree that to be billed on a net metering basis, the following applies:
 - a. W.D.I. will not pay you for any excess generation that results in a net delivery of energy to W.D.I. beyond a 12 month period.
 - b. Cumulative excess generation can only be 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-consolidation 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 W.D.I. 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. 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. 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 W.D.I. of such action.
- 6.2. You agree that W.D.I. reserves the right to terminate this Agreement on 30 days written notice:
 - a. If W.D.I. 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 W.D.I. of the breach.
- 6.3. You acknowledge and agree that upon termination of this Agreement, you must either disconnect your generation facility from W.D.I.'s distribution system in a timely fashion and to W.D.I.'s satisfaction.



7. Assignment

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

8. 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 W.D.I. 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 W.D.I. 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 Vn = 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
$1.10 V_n \leq V < 1.20 V_n$	60	1	60
$V \geq 1.20 V_n$	60	0.16	9.6
Vn	$F < 59.3^*$	0.16	9.6
Vn	$F > 60.5$	0.16	9.6

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

W.D.I.'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 Vn = 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
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 W.D.I. distribution system

- If you are certain 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 W.D. I. distribution system.

APPENDIX A: Generator/Inverter Information for Additional Turbines

(For generation facilities installing more than one type of generator)

- a) Manufacturer: _____
- b) Model Number: _____
- c) Number of phases: Single Phase Three Phase
- d) Nameplate rating: _____ kW
- e) Generator/Inverter AC output voltage _____ Volts
- f) Type of inverter: Self-commutated Line-commutated Other, Please specify
- g) Are power factor correction capacitors automatically switched off when generator breaker opens?

 Yes No
- h) Is the generator/inverter paralleling equipment and/or design pre-certified and meets anti-islanding test requirements?

 Yes No
- i) If answer to above question is Yes, to which standard(s), e.g. CSA C22.2 No. 107.1-01, UL 1741, etc.

- j) Method of synchronizing the generator/inverter to Wasaga Distribution Inc.'s system

 Manual Automatic
- k) Maximum inrush current upon generator or inverter connection (I_{inrush}/I_{rated}) per unit