Net Metering Application Form

This form is applicable to individual or multiple generating units at the customer's facility with total nameplate rating of 500 kW or less. Your generation facility must generate electricity from a renewable source that is wind, water, solar radiation, or agricultural biomass.

Inverter based generating units must not inject DC greater than 0.5% of the full rated output current at the point of connection of the generating units. The generated harmonic levels must not exceed those given in the CAN/CSA-C61000-3-6 Standards.

The following information is required for all net metered generators with total generation of up to 500 kW.

Date of Application: _____ (mm/dd/yyyy)

Proposed Generation In-Service Date: _____ (mm/dd/yyyy)

1. Project Information:

Location (Street Address / City / or Lot No. / Concession / Township / County, as applicable)

_____
_____
_____
_____

Owner

Company / Person: _____
Contact: _____
Mailing Address: _____
_____
_____
_____
Telephone: _____
Fax: _____
E-mail: _____

Engineering Consultant (Electrical)

Company / Person: _____
Contact: _____
Mailing Address: _____
_____
_____
_____
Telephone: _____
Fax: _____
E-mail: _____

2. Customer Status:

Are you an existing Bluewater Power Customer? ☐ Yes ☐ No

If yes, please provide your Bluewater Power 7-digit Account Number: _____

Are you a GST registrant? ☐ Yes ☐ No

If yes, please provide your GST registration number: _____

3. Project Size:

Total generation capacity _____ kW

Are all generating units of the same type / size? ☐ Yes ☐ No

4. Generation Type (check all that apply):

☐ Wind Turbine

☐ Hydraulic Turbine

☐ Solar / Photovoltaic Cells

☐ Biomass

☐ Other, please specify _____

5. Customer-Owned Step-up Interface Transformer (if applicable):

a. Transformer rating _____ kVA

b. High voltage winding connection ☐ delta ☐ star

Grounding method of star connected high voltage winding neutral
☐ Solid ☐ Ungrounded ☐ Impedance grounded: R _____ X _____ ohms

c. Low voltage winding connection ☐ delta ☐ star

Grounding method of star connected low voltage winding neutral
☐ Solid ☐ Ungrounded ☐ Impedance grounded: R _____ X _____ ohms

Note: The term "high voltage" refers to the connection voltage to Bluewater Power's distribution system and "low voltage" refers to the generator / inverter output voltage.

6. Generator / Inverter Information:

(For generation facilities installing more than one type of generator, complete section 6 and Appendix A)

a. Manufacturer: _____

b. Model No. _____

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 the 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 Bluewater Power's system

☐ Manual ☐ Automatic

k. Maximum inrush current upon generator or inverter connection (I_{inrush} / I_{rated})
_____ per unit

7. Grid Interface Controller (if applicable):

a. Manufacturer _____

b. Model No. _____

8. Single Line Diagram (only required for generators greater than 50 kW):

A Single Line Diagram (SLD) is required with this application form. The SLD should include, but not be limited to:

- Customer's electrical system showing major electrical equipment, their ratings, location of fault interrupting devices (circuit breakers, fuses)
- Generating unit(s) and their connection arrangement to Customer's electrical system
- Protection, metering and proposed tripping schemes
- Isolating / disconnecting device for the isolation of the generating unit(s) from the Bluewater Power system: suitably rated, accessible (to Bluewater Power personnel), visible, gang operated, lockable

- If applicable, information on customer owned step-up interface transformer: ratings, winding connections, grounding arrangements.

SLD Drawing Number: _____, Rev. _____

9. Location and Site Plan (only required for generators greater than 50 kW):

Provide a site plan (sketch) showing electric service entrance, step-down transformer, generator(s), / inverter(s) location, existing / new switchgear, location of the isolating / disconnecting device (for Bluewater Power usage), adjoining street name, and street address.

Drawing / Sketch No: _____, Rev. _____

Note: *Additional information may be required. Bluewater Power will inform you what additional information is required, if necessary.*

Applicant: _____ **Date:** _____
(Signature)

Please return this form by fax or mail to:

Net Metering Application – Attention: Design Services
Bluewater Power Distribution Corporation
855 Confederation Street, PO Box 2140
Sarnia, Ontario N7T 7L6

Fax: (519) 337-2401

APPENDIX A: Generator / Inverter Information For Additional Turbines

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

a. Manufacturer: _____

b. Model No. _____

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 the 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 Bluewater Power's system

☐ Manual ☐ Automatic

k. Maximum inrush current upon generator or inverter connection (I_{inrush} / I_{rated})
_____ per unit