

# Maritime Electric Net Metering Customer Agreement for Electric Facilities not Exceeding 100kw

| SECTION 1 - CUSTOMER INFORMATION                     |  |              |  |
|--|--|--------------|--|
| Name on Maritime Electric Account:                   |  |              |  |
| Maritime Electric Account Number:                    |  |              |  |
| Mailing Address:                                     |  |              |  |
| City/Town:   |  | Postal Code: |  |
| Contact Number:                                      |  |              |  |
| Service Address (if different from mailing address): |  |              |  |
| HST Registration Number (if applicable):             |  |              |  |

| SECTION 2 - ELECTRICIAN INFORMATION |  |                |  |
|-------------------------------------|--|----------------|--|
| Electrician Name:                   |  |                |  |
| Company Name (if applicable):       |  |                |  |
| Primary Contact Phone:              |  | Email Address: |  |

| SECTION 3 - TECHNICAL REPRESENTATIVE INFORMATION (IF APPLICABLE) |  |                |  |
|--|--|----------------|--|
| Technical Representative or Consultant Name:                     |  |                |  |
| Company Name (if applicable):                                    |  |                |  |
| Primary Contact Phone:   |  | Email Address: |  |

| SECTION 4 - CUSTOMER ELECTRICAL SUPPLY INFORMATION |                                       |                                      |  |
|--|---------------------------------------|--------------------------------------|--|
| Existing Utility Electric Service Type:            | Single Phase <input type="checkbox"/> | Three Phase <input type="checkbox"/> |  |
| Capacity/Amperage (A):                             |                                       | Service Voltage (V):                 |  |

| SECTION 5 - ELECTRIC GENERATING FACILITY INFORMATION  |  |  |                                |
|---|--|--|--------------------------------|
| Expected In-Service Date (YYYY/MM/DD):  |  |  |                                |
| Type (i.e. Wind, Solar, etc.):  |  |  |                                |
| Indicate the capacity (kW) and estimated annual energy (kWh) to be produced per year by the entire generating facility: |  |  |                                |
| kW: _____   | kWh: _____                                     |  |                                |
| Electric Service Type and Voltage Level:  |  |  |                                |
| Single Phase 120/240 V <input type="checkbox"/>   | Three Phase 120/208 V <input type="checkbox"/> | Three Phase 347/600 V <input type="checkbox"/> | Other <input type="checkbox"/> |
| If you selected "Other" above, please <u>specify</u> the Electric Service Type and Voltage Level:                       |  |  |                                |
| Energy Storage included in Facility?  | Yes <input type="checkbox"/>                   | No <input type="checkbox"/>                    |                                |

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**SECTION 6 - ELECTRIC GENERATOR EQUIPMENT INFORMATION**

|   |  |  |   |                       |                                   |  |  |
|---|--|--|---|-----------------------|-----------------------------------|--|--|
| Name of Manufacturer:                           |  |  |   |                       |                                   |  |  |
| Manufacturer Model Number:                      |  |  |   |                       |                                   |  |  |
| Unit Certification Info (i.e. CSA, CUL, etc.):  |  |  |   |                       |                                   |  |  |
| Generator Type:                                 | Synchronous <input type="checkbox"/>         |  | Induction <input type="checkbox"/>                  |                       | Inverter <input type="checkbox"/> |  |  |
| Number of Generating Units:                     |  | Rated Voltage (V):                         |   | Rated Frequency (Hz): |                                   |  |  |
| Rated Apparent Power (kVA) per Generating Unit: |  |  | Rated Real Power Rating (kW) per Generating Unit:   |                       |                                   |  |  |
| Rated Power Factor (%):                         |  |  |   |                       |                                   |  |  |
| Generator Connection Configuration:             |  |  |   |                       |                                   |  |  |
| Single Phase <input type="checkbox"/>           | Three Phase – Delta <input type="checkbox"/> | Three Phase – Wye <input type="checkbox"/> | Three Phase – Grounded Wye <input type="checkbox"/> |                       |                                   |  |  |
| Soft Started Included? (if generator >15 kW)    | Yes <input type="checkbox"/>                 |  | No <input type="checkbox"/>                         |                       |                                   |  |  |

**SECTION 7 - SYNCHRONIZER INFORMATION (FOR SYNCHRONOUS GENERATORS ONLY)**

|  |                                    |  |                                 |  |  |  |  |
|--|------------------------------------|--|---------------------------------|--|--|--|--|
| Name of Manufacturer:                          |                                    |  |                                 |  |  |  |  |
| Manufacturer Model Number:                     |                                    |  |                                 |  |  |  |  |
| Unit Certification Info (i.e. CSA, CUL, etc.): |                                    |  |                                 |  |  |  |  |
| Synchronizer Type:                             | Automatic <input type="checkbox"/> |  | Manual <input type="checkbox"/> |  |  |  |  |

**SECTION 8 - INVERTER INFORMATION (FOR INVERTED-BASED GENERATORS ONLY)**

|  |                                       |                                     |                                      |                       |  |  |  |
|--|---------------------------------------|-------------------------------------|--------------------------------------|-----------------------|--|--|--|
| Name of Manufacturer:                          |                                       |                                     |                                      |                       |  |  |  |
| Manufacturer Model Number:                     |                                       |                                     |                                      |                       |  |  |  |
| Unit Certification Info (i.e. CSA, CUL, etc.): |                                       |                                     |                                      |                       |  |  |  |
| Micro Inverters Utilized:                      | Yes <input type="checkbox"/>          |                                     | No <input type="checkbox"/>          |                       |  |  |  |
| Rated Apparent Power (kVA) per Inverter:       |                                       | Rated Real Power (kW) per Inverter: |                                      | Number of Units:      |  |  |  |
| Rated Power Factor (%):                        |                                       | Rated Voltage (V):                  |                                      | Rated Frequency (Hz): |  |  |  |
| Inverter Connection:                           | Single Phase <input type="checkbox"/> |                                     | Three Phase <input type="checkbox"/> |                       |  |  |  |

**SECTION 9 - INTERCONNECTION TRANSFORMER AND FUSE INFORMATION (IF APPLICABLE)**

|  |       |                       |                                       |                              |                                       |  |        |
|--|-------|-----------------------|---------------------------------------|------------------------------|---------------------------------------|--|--------|
| Name of Manufacturer:                          |       |                       |                                       |                              |                                       |  |        |
| Manufacturer Model Number:                     |       |                       |                                       |                              |                                       |  |        |
| Unit Certification Info (i.e. CSA, CUL, etc.): |       |                       |                                       |                              |                                       |  |        |
| Primary Terminal Voltage (V):                  |       | Primary Connection:   | Single Phase <input type="checkbox"/> |                              | Three Phase <input type="checkbox"/>  |  |        |
| Secondary Terminal Voltage (V):                |       | Secondary Connection: | Delta <input type="checkbox"/>        | Wye <input type="checkbox"/> | Grounded Wye <input type="checkbox"/> |  |        |
| Rated Apparent Power (kVA):                    |       |                       |                                       |                              |                                       |  |        |
| Primary Fuse:                                  | Date: |                       | Type                                  |                              | Size:                                 |  | Speed: |

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|---|--|-----------------|--|----------------------|--|---------------------|--|
| <b>SECTION 10 - INTERCONNECTION CIRCUIT BREAKER INFORMATION (IF APPLICABLE)</b> |  |                 |  |                      |  |                     |  |
| Name of Manufacturer:   |  |                 |  |                      |  |                     |  |
| Manufacturer Model Number:  |  |                 |  |                      |  |                     |  |
| Unit Certification Info (i.e. CSA, CUL, etc.):                                  |  |                 |  |                      |  |                     |  |
| Type Number:  |  | Load Rating (A) |  | Interrupt Rating (A) |  | Trip Speed (Cycles) |  |

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| <b>SECTION 11 - PROTECTION DOCUMENTATION AND INFORMATION<br/>- COMPLETE <u>ALL</u> APPLICABLE ITEMS AND ATTACH ADDITIONAL SHEETS AS REQUIRED.</b> |
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| Provide <u>all</u> manufacturer information (i.e. data sheets, coordination curves, etc.) relating to the protection package or devices to be installed. |
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| Provide a list of <u>all</u> available protective functions. This list should include, but not be limited to, the following protective functions: |
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|--|---|--|
| <ul style="list-style-type: none"> <li>i. Under voltage</li> <li>iv. Over-frequency</li> </ul> | <ul style="list-style-type: none"> <li>ii. Over-voltage</li> <li>v. Anti-islanding</li> </ul> | <ul style="list-style-type: none"> <li>iii. Under-frequency</li> <li>vi. Over-current</li> </ul> |
|--|---|--|

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| Provide <u>all</u> manufacturer documentation relating to the available protective functions. This documentation should include, but not be limited to, the range of available settings for each protective function (i.e. trip settings, time delay settings, etc.). |
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| Provide <u>all</u> proposed protective function settings (e.g. over-voltage trip of 128 V with a time delay of 0.2 s). |
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| Provide a complete description of how the protection scheme is intended to function. |
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## Maritime Electric Net Metering Agreement For Electric Generating Facilities Not Exceeding 100 kW

### SECTION 12 - OTHER REQUIRED DOCUMENTATION

- ALL DOCUMENTS ARE TO BE COMPLETED AND INCLUDED WITH THIS APPLICATION.
- ALL DOCUMENTS ARE TO BE NEAT AND LEGIBLE. NON-LEGIBLE DOCUMENTS WILL NOT BE ACCEPTED BY THE UTILITY.

Provide an electrical one/single-line diagram of the entire electrical generating facility.

This diagram must include proper electrical device labeling and descriptions as well as show the electrical connections between all of the significant electrical components of the generating facility (i.e. generators, inverters, cables, wiring, switches, meters, transformers, circuit breakers, etc.).

Provide a site plan drawing of the electrical generating facility and its associated premises.

The drawing must show the physical arrangement of all major equipment (i.e. generators, transformers, switches, control panels, etc.), the customer's existing metered services (and the new/proposed meter services, if applicable), the customer-utility interconnection point, and any other significant structures or obstacles present in the area.

### SECTION 13 - TERMS AND CONDITIONS

1. Compliance - The parties to this Net Metering Agreement shall ensure that the generating and interconnection systems between them are compliant with the practices, methods and equipment, as changed from time to time, that are commonly accepted practice in electrical engineering operations to operate electric equipment lawfully and with safety and dependability and that such systems comply with the Electrical Inspection Act R.S.P.E.I. 1988, Cap. E-3, the latest authorized edition of the Canadian Electrical Code and generally accepted electrical utility practice. As per the *Renewable Energy Act* section 11, subsection 3, clause (a), "Within 30 days of receiving a request made by a small capacity renewable energy generator in accordance with subsection (2), a public utility shall inspect the interconnection equipment and the renewable energy generation facility of the small capacity renewable energy generator to determine if the proposed operation of a net-metering system with the small capacity renewable energy generator is likely to have a serious adverse impact on (a) the service provided by the public utility to its other customers"

In order to satisfy this requirement, electric facilities with a total generating capacity of 30 kilowatts or more shall adhere to the following requirements:

- The electric facility must produce balanced three phase power; AND
- The electric facility must include dedicated anti-islanding protection. Upon detecting an islanding event, the facility shall disconnect from the power system. A typical anti-islanding protection scheme is as follows:
  - o If the power system frequency is between 59.3 Hz and 60.7 Hz AND the power system voltage is between 0.9 per-unit and 1.1 per-unit AND the absolute value of the rate of change of the power system frequency is greater than 1 Hz/sec, the electric facility should disconnect from the power system, provided the power system remains in this state for three consecutive power system cycles; OR
  - o If the power system frequency is less than 57.0 Hz for 200 consecutive power system cycles, the electric facility should disconnect from the power system; OR
  - o If the power system frequency is greater than 62.0 Hz for 18 consecutive power system cycles, the electric facility should disconnect from the power system; OR
  - o If the power system voltage is less than 0.8 per-unit OR greater than 1.2 per-unit for 30 consecutive power system cycles the electric facility should disconnect from the power system; OR
  - o If the power system voltage is less than 0.9 per-unit OR greater than 1.1 per-unit for 90 power system cycles the electric facility should disconnect from the power system.

The public utility reserves the right to limit the total installed capacity of electric facilities per feeder or require additional infrastructure.

2. Installation of the Disconnect - The design, installation and operation and maintenance of the SCRE generator's facility shall include appropriate control and protection equipment and a manual load-break disconnect device lockable in the open position and accessible by the public utility as a means of electrically isolating the SCRE generator's system from the public utility's system, and to establish working clearance for maintenance and repair work in accordance with accepted electrical practice. The loadbreak disconnect device shall be furnished and installed by the SCRE generator and is to be connected between the SCRE generator's system and the public utility's distribution system. The disconnect device shall be located in the immediate vicinity of the electric meters serving the SCRE generator, but with the permission of the public utility, the disconnect may be located at an alternative location which is accessible to the public utility's personnel on a 24-hour basis. The disconnect device shall be clearly labeled "Net Metering System Disconnect". Upon reasonable notice to the SCRE generator, the public utility shall have the right to inspect the small capacity renewable energy generating system.
3. Notice - A SCRE generator shall provide the public utility with an advance written notice of thirty (30) days of any

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proposed material changes to the small capacity renewable energy system, including any change in ownership or any increase in electrical capacity. If the ownership of a SCRE generator changes, the public utility may require the new owner to have the system re-inspected.

4. **Permits and Licenses** - The SCRE generator shall obtain, at its expense, any and all authorizations, permits and licenses required for the construction and operation of its small capacity renewable energy generating system.
5. **Metering** - The public utility shall supply, own, maintain and read all necessary meters utilized for billing. The SCRE generator shall supply, at no expense to the public utility, a suitable location for meters utilized for billing.
6. **Indemnification** - Each party as indemnitor shall hold harmless and indemnify the other party and the directors, officers, authorized agents, and employees of such other party against and from any and all loss and liability for injuries to persons including employees and authorized agents of either party, and damages, including property of either party, resulting from or arising out of (i) the engineering, design, construction, maintenance, or operation of, or (ii) the making of replacements, additions, or betterments to the indemnitor's facilities which are required for the interconnection and parallel operation of the SCRE generator's system with the public utility's distribution system and the generation of energy by the SCRE generator. Neither party shall be indemnified for liability or loss resulting from its sole negligence or willful misconduct. Nothing in this agreement shall create any duty to, any standard of care with reference to, or any liability to any person not a party to it.
7. **Continuity of Service** - The public utility may require the SCRE generator to temporarily curtail, interrupt or reduce deliveries of electrical energy: (a) when necessary in order for the public utility to construct, install, maintain, repair, replace, remove, investigate or inspect any of its equipment or any part of its system; or (b) if the public utility determines that such curtailment, interruption or reduction is necessary because of a system emergency, forced outage, or compliance with accepted electrical practice. A SCRE generator shall not be entitled to any priority for restoration of service after a power outage.
8. **Additional Equipment** - The public utility is not required to install any additional distribution equipment for a SCRE generator that would not normally be afforded to other customers in a similar rate class and a similar location. If the SCRE generator requests any such additional distribution equipment to be installed, the full cost of these additions shall be at the expense of the SCRE generator.
9. **Personnel and System Safety** - If at any time the public utility determines that the continued operation of the small capacity renewable energy generation system may endanger any person or property or the public utility's distribution system, or have an adverse effect on the safety or power quality of other customers of the public utility, the public utility shall have the right to disconnect the SCRE generator's system from the public utility's distribution system. The SCRE generator's system shall remain disconnected until such time as the public utility is satisfied that the endangered or power quality conditions have been corrected, and the public utility shall not be obligated to accept any electrical energy from the SCRE generator during such period. The public utility shall not be liable directly or indirectly for permitting or continuing to allow an attachment of a small capacity renewable energy generation system or for the acts of omissions of the SCRE generator that causes loss or injury, including death, to any third party. It is the responsibility of the SCRE generator to protect its system from voltage imbalances within the public utility's distribution system or reclosing operations after a power interruption.
10. **Power Factor** - The SCRE generator shall ensure that its system operates at a power factor of at least 0.90; in the event that the SCRE generator does not operate at this power factor, the Net Metering Agreement may be immediately declared void by the public utility.
11. **Additional Information** - The public utility reserves the right to require additional information, where necessary, to serve the SCRE generator.
12. **Termination of Agreement** - The SCRE generator may terminate a Net Metering Agreement at any time by giving written notice to the public utility that specifies the date of termination. The public utility may terminate a Net Metering Agreement at any time if the SCRE generator violates the Renewable Energy Act or regulations made under the Act.

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**SECTION 14 - APPLICATION SIGNATURES - I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, ALL THE INFORMATION PROVIDED IN THIS "TECHNICAL INFORMATION FORM" IS TRUE AND CORRECT. IN WITNESS WHEREOF THE PARTIES HAVE EXECUTED THIS AGREEMENT.**

|                                   |  |
|-----------------------------------|--|
| Customer Name (Printed):          |  |
| Customer Signature:               |  |
| Date:                             |  |
| Maritime Electric Representative: |  |
| Title:                            |  |
| Date:                             |  |

**UTILITY CONTACT INFORMATION – SEND COMPLETED APPLICATIONS TO THE FOLLOWING:**

Maritime Electric – Net Metering  
PO Box 1328  
Charlottetown PE C1A 7N2

Or

By email:  
customerservice@maritimeelectric.com  
Subject: Net Metering Application

**Questions? Contact Us**

Phone: 1-800-670-1012

**Learn More About Net Metering**

<https://www.maritimeelectric.com/services/articles/net-metering/>

**Maritime Electric Net Metering Agreement  
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**Confirmation of HST Registration Status for Net Metering Customers**

|                        |  |
|------------------------|--|
| <b>Account Name:</b>   |  |
| <b>Account Number:</b> |  |

**PLEASE COMPLETE THE FOLLOWING SECTIONS:**

I. Is the account name above a HST Registrant?

Yes *(go to Section II)*

No *(go to Section IV)*

II. Please indicate the HST registration number for the account name above:

RT

*(go to Section III)*

III. Please indicate the proof of registration enclosed:

most recent HST return filed with CRA

most recent HST notice of assessment

*(go to Section IV)*

IV. I certify that I am the account holder indicated above or an authorized officer thereof and the information provided is to the best of my knowledge true and accurate.

\_\_\_\_\_

(Name – please print)

\_\_\_\_\_

Signature

\_\_\_\_\_

Date (mm/dd/yy)

*Please return the completed form along with any required documents from Section III.*