

MATANUSKA ELECTRIC ASSOCIATION, INC

NET METERING INTERCONNECTION AGREEMENT

WHEREAS, _____ (hereinafter the Member)
(print MEA account name here)

wishes to interconnect its own eligible generating facility, as determined in Tariff, with a total alternating current (AC) nameplate rating at or under 25 kW, with Matanuska Electric Association, Inc. (hereinafter MEA) under MEA's Net Metering Program, and

WHEREAS, MEA wishes to interconnect with Member in a manner not materially detrimental to its other members.

IT IS HEREBY AGREED:

1. Service. MEA will supply service to Member as required by its Tariff. Member is not under any obligation to supply power to MEA but may do so if it chooses.
2. Rates. The rates paid by Member to MEA and by MEA to Member shall be as specified in MEA's Tariff on file with the Regulatory Commission of Alaska. These rates may vary, and their structure is subject to change as a result of, including but not limited to, increased participation in the MEA Net Metering Program, changes in the MEA generation or load profiles, and/or other changes to the MEA system.
3. Payment. When Member's net metering for a month results in the Member supplying MEA with power, MEA will credit the payment against Member's account with MEA at the non-firm power purchase rate defined in MEA's Tariff. Credit balances of over \$15.00 will be paid to Member annually, and upon termination of this agreement.
4. Member Equipment. Member warrants that its equipment is as described on its interconnection application and, at a minimum, meets all Interconnection Rules and Standards identified in sections eight (8) and nine (9) of this Interconnection Agreement. Member will give MEA thirty (30) days' notice of modifications in the equipment so that MEA may determine whether the modification meets Tariff requirements or requires modifications in MEA equipment. Member will be responsible for all necessary interconnection costs per section six (6) of this agreement. An estimate of these costs is provided in the "Net Metering Interconnection Cost Estimate" attached to this Agreement. MEA, at its sole discretion, may require the submittal of additional documentation such as, but not limited to, equipment certifications, or an updated site plan or one-line diagram.
5. Liability. Member agrees to hold MEA harmless for any claim or damage to person or property of others and Member will compensate MEA for any such damage to MEA's equipment caused by operation of Member's equipment or Member's failure to maintain the equipment. Member will defend and indemnify MEA from property damage or personal injury claims arising from the operation of the Member's equipment.
6. Interconnection Costs. Member agrees to pay the interconnection costs which includes, but are not limited to, all labor and equipment necessary to interconnect Member. Payment in full of the total estimated cost as detailed in the attached "Net Metering Interconnection Cost

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Estimate” must be made prior to MEA proceeding with interconnection. Upon completion of the interconnection, Member shall be responsible for the actual cost of the interconnection per MEA’s Tariff.

7. Term. This Agreement does not become effective until it has been signed by authorized representatives of the Member and MEA and will expire thirty (30) years from its effective date or termination occurs as specified under the conditions of Section 10, “Termination or Transfer”, of this Interconnection Agreement.
8. Interconnection Rules.
 - a. Prior to operation of the generation facility, Member must submit an Net Metering Interconnection Application (attached as Appendix A) along with all necessary supporting documents and execute this Interconnection Agreement with MEA.
 - b. MEA reserves the right to inspect the generating facility prior to initial operation and any time thereafter, upon reasonable notice.
 - c. The Member has sole responsibility to protect its personnel, facilities, loads, and equipment and to comply with all applicable standards, codes, and statutes.
 - d. The Member shall maintain the generating facility in good working order and assumes full responsibility for all maintenance of the generator and all associated equipment.
 - e. Member shall furnish and install labeling on meter bases and switches in accordance with the NEC that informs working personnel that generation is located on the premises.
 - f. If the generating facility is comprised of multiple individual generating units, the outputs must be combined and connected to the system at one location. The size of the facility will be considered as the aggregate of the individual units.
 - g. Member may not operate the eligible generating facility as backup power or as a stand-alone (Islanded) facility unless the conditions of Section 9-f, “Interconnection Standards” are met.
9. Interconnection Standards.
 - a. The Point of Interconnection shall be the Member’s side of the meter from which electric service is provided by MEA.
 - b. The nominal voltage and phase configuration shall be compatible with MEA’s system at the point of interconnection.
 - c. The generating facility shall maintain adequate power quality such that voltage, current, or frequency distortions and harmonics do not affect other customers or MEA’s system. If the facility is found to be negatively affecting other customers or the MEA system as a whole or exceeds IEEE recommended specifications, the Member will be required to install additional equipment necessary to bring these effects to acceptable levels. If acceptable levels cannot be achieved, the facility will be disconnected. The Member is

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responsible for all costs associated with voltage regulation on MEA's system if such regulation is required because of the customer's generating facility.

- d. Member's generating facility shall comply with NEC Articles 690 (Solar Photovoltaic Systems) and 705 (Interconnected Electric Power Production Sources), as applicable, IEEE Standard 1547-2018 (Standard for Interconnecting Distributed Resources with Electric Power Systems), and UL Standard 1741 (Inverters, Converters, and Controllers for Use in Independent Power Systems). All equipment must be UL listed and IEEE 1547 certified, as applicable.
- e. Member's eligible generating facility shall:
 - i. Condition its energy through an IEEE 1547 certified inverter.
 - ii. Include automated safety mechanism(s) (e.g., a breaker or fuse) of appropriate size and number between the generator(s) and the disconnect switch.
 - iii. Include a disconnect switch between the automated safety mechanism(s) and the Point of Interconnection that allows the generator(s) to be fully disconnected from the MEA system. This switch shall:
 - 1. have an amperage rating at, or higher than, the summation of all automated safety mechanism ratings;
 - 2. provide a visible disconnect;
 - 3. be located adjacent to the service entrance to be always accessible to MEA personnel;
 - 4. have the capability of being locked in the open position by MEA.
 - iv. Automatically disconnect from MEA's system under IEEE 1547-2018 Category I conditions.
 - v. Not be used as backup power or as a stand-alone (Islanded) system unless all conditions of the following sub-section (9-f) are met.
- f. Member's islanding capable eligible generating facility shall:
 - i. Include an islanding capable, IEEE 1547 certified inverter and appropriate inverter settings. Member shall supply proposed inverter settings with the interconnection application and the commissioned system's inverter settings prior to a "Witness Test." MEA reserves the right to audit and, upon reasonable notice, require changes to the inverter settings. Reasons that may require changes to the inverter settings include, but are not limited to, modifications to MEA's system or system protection requirements. Failure to make required changes to the inverter settings will be considered a material breach of contract.
 - ii. Include an automated transfer switch, or other approved device, that will isolate the Member's facility from MEA's system during islanded operation.

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- iii. Isolate Member's eligible generating facility prior to reconnecting to MEA's system so that multiple dynamic systems are not connected simultaneously. This means the Member's eligible generating facility must isolate from MEA's system while islanding, and then synchronize the eligible generating facility's frequency with MEA's system, before reconnecting to MEA's system.
 - iv. Be subject to a "Witness Test" by MEA personnel to ensure compliance with IEEE 1547-2018 and the Interconnection Rules and Standards of this Interconnection Agreement. Member must commission, to the extent possible, the system in islanded operation prior to MEA scheduling the Witness Test and may not operate their eligible generating facility in parallel with MEA's system prior to the Witness Test. During the Witness Test, MEA personnel may observe a simulation of disruption and resumption of electrical service via the opening and closing of the disconnect switch. MEA personnel may use various instruments to take measurements of MEA's system during the test. The Member assumes all liability for injury to person(s) or damage to MEA's or Member's equipment during testing. A successful Witness Test may include, but is not limited to, the Member's eligible generating facility:
 - 1. Starting in islanded mode;
 - 2. Observing the resumption of MEA service to point of interconnection;
 - 3. Isolating Member's eligible generating facility;
 - 4. Connect load to MEA service;
 - 5. Synchronize and then connect eligible generating facility with MEA's system;
 - 6. Observing the disruption of MEA service;
 - 7. Switching to islanded mode;
 - 8. No failures of equipment, and;
 - 9. Electrical measurements within normal operating ranges.
10. Termination or Transfer. MEA may terminate this contract immediately, pursuant to the Tariff, where the interconnection presents a danger to MEA's system. Member may terminate this contract on thirty (30) days' notice, or on presenting to MEA a new, qualified, account holder to assume this contract. Closure of the Member's account with MEA at the generating facility's location will serve as notice to terminate this contract. A new, qualified, MEA account holder at the generating facility's location may assume this contract within ninety (90) days of Member's notice by submitting an interconnection application and executing a Net Metering Interconnection Agreement. Either party may terminate the contract upon a material breach of this contract by the other, but only if notice of the breach has been given, and no cure of the breach has been made after expiration of sixty (60) days from date of notice. Per section eight (8), sub-section d, the Member is responsible for maintaining the equipment in working order and MEA may terminate for breach of contract if no energy is generated at the site for six (6) consecutive billing periods or the generating facility is otherwise derelict.

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11. Notice. Notice shall be given in writing to the parties at the following addresses:

For Member:

Name: _____

Address: _____

For MEA:

Matanuska Electric Association, INC.

ATTN: Grid Modernization Manager

PO Box 2929

Palmer, AK 99645

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12. Signature Page.

AGREED:

Printed Name: _____

Signature: _____

Title

Date: _____

AGREED:

MATANUSKA ELECTRIC ASSOCIATION, INC.

Signature: _____

Title

Date: _____