

Cass County Electric Cooperative, Inc.

Net Metering Guidelines, Procedure and Application

Introduction:

Net-metering is available to members of Cass County Electric Cooperative Inc. (CCEC), who will generate their own electricity and be interconnected to CCEC's electrical grid.

Net-metering only applies to generating systems (individual systems or cumulative total) with a nameplate rating of 50 kilowatts (kW) per member or less; and,

- are subject to the aggregated cumulative maximum installed capacity on the CCEC system up to 0.15% of CCEC's system peak load based on the highest non-coincidental peak load from the previous three-year period.
- the aggregated cumulative maximum nameplate generation capacity per distribution feeder is less than 10% of the minimum feeder load
- uses one of the following renewable technologies as defined by North Dakota Century Code 49-02-25:
 - a. Solar, using the sun as the source of energy for producing electricity;
 - b. Wind, using the wind as the source of energy for producing electricity;
 - c. Biomass, using agricultural crops and agricultural wastes and residues, wood and wood wastes and residues, animal wastes, and landfill gas as the fuel to produce electricity;
 - d. Geothermal, using energy contained in heat that continuously flows outward from the earth as the source of energy to produce electricity;
 - e. Hydrogen, provided that the hydrogen is generated from a source listed in this section;
 - f. Recycled energy systems producing electricity from currently unused waste heat resulting from combustion or other processes into electricity and which do not use an additional combustion process. The term does not include any system whose primary purpose is the generation of electricity.

Procedure for application approval:

CCEC will approve net-metering applications on a first-come, first-served basis. The criterion for the approval is as follows:

1. Application is complete and received by CCEC, along with a \$50 filing fee.
2. The member meets in person with CCEC to explain their project and receive all necessary information from CCEC regarding their requirements to receive approval for a net-metered installation.
3. CCEC will respond within 15 business days to notify member if the application is approved for net-metering; or to place in queue if the additional generation capacity will surpass the cumulative maximum installed capacity allowed by CCEC; or if the generation system compromises system integrity.
4. Once the member is given written approval, the member has 18 months from date of approval for the system to be operational. If the system is not operational within this time frame, the application will be reviewed and may be placed back in queue.

Technical Requirements:

The member must follow the technical requirements established in CCEC's Interconnection for Generation Systems. The member must also provide a separate Interconnection Application, Engineering Data Submittal, Interconnection Agreement and provide the required insurance for the system to be interconnected. The information provided is found on CCEC's website at www.kwh.com or by calling CCEC's engineering

department at 701-356-4400. The system must be approved for interconnection before connection to the electrical grid is allowed.

If the member seeks to receive the Minnkota Power Cooperative (MPC) capacity credit, the participating member's generator must meet the guidelines for Accreditation of Generation established by the Mid-Continent Area Power Pool (MAPP). In order for the participating Member's generator to be MAPP accredited for use by Minnkota, the Member shall:

- a. Supply generating capability which can be accredited to Minnkota in accordance with Section 4.2.2 (Accreditation of Generation) Mid-Continent Area Power Pool Generation Reserve Sharing Pool Handbook.
- b. Annually perform a test of not less than four hours of the generator output at stabilized operating conditions.
- c. Timely provide Minnkota with all necessary information and performance data to satisfy Minnkota's reporting requirements to MAPP or to another successor organization.
- d. Inform Minnkota within 30 days of major equipment failure of its generator.
- e. Deliver each hour all excess renewable energy generated by the generator to Minnkota.
- f. Under emergency and abnormal conditions, as determined by Minnkota, the undersigned Member shall operate the generator as directed by Minnkota's Control Center.

Metering Costs:

The member will pay any additional costs associated with adding a multi-channel bi-directional interval meter and any remote communication equipment associated with the meter setup that would monitor the excess generation delivered to CCEC's system.

Rates:

Minnkota Power Cooperative (MPC) agrees to compensate the participating member for kilowatt hours of renewable electric energy generated by the member in excess of the electric energy required for their own use. MPC will pay the participating member monthly, or as otherwise mutually agreed (but not more often than monthly), an amount equal to the product of the excess output of kilowatt-hours of renewable energy recorded on the interval meter times MPC's renewable energy purchase rate.

Non-Performance:

CCEC will monitor for non-performance. The member must inform CCEC and Minnkota within 30 days of major equipment failure. The member has 3 years from the date the system becomes non-operational to become operational or the member will lose their renewable resources status and by default net-metering. The member must again reapply for net-metering and generator interconnection as outlined by the Net-metering and Interconnection for Generator Systems policy and procedures. Due to the aggregate limits on net metered generation, it is possible that a non-performing net metering system will not be approved to rejoin the net metering program even if the system becomes operational again.



**Application for net-metering of renewable sources with a
Generating capacity of 50 kW or less.**

Member Name: _____
CCEC Account #: _____
Contact Person: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone: _____ Cell Phone: _____
E-mail: _____
Location of Proposed Generator: _____
Engineering/Design Firm _____
Contact Person _____ Phone: _____
Address: _____

Solar PV Type:

Qty of Solar Panels: _____ x Nameplate Rating Watts (Each) _____ = Total Wattage _____
Solar Panel Manufacturer: _____ Model No. _____
Nameplate Data: _____
Maximum kW Output _____ Voltage Rating _____
Frequency _____ Battery Voltage (if applicable) _____
Inverter Manufacturer _____ Model No. _____
UL 1741 Listed Yes No

Wind Turbine:

Wind Turbine Manufacturer: _____ Model No. _____
Nameplate Data: _____
Rated kW Output _____ at _____ mph Wind Speed.
Voltage Rating _____ Frequency _____ Power Factor _____
Inverter Manufacturer _____ Model No. _____
UL 1741 Listed Yes No

Other Qualified Renewable Source:

Describe System: _____
Manufacturer: _____ Model No. _____
Nameplate Data: _____

Rated kW Output _____ Voltage Rating _____

Frequency _____ Power Factor _____

Inverter Manufacturer _____ Model No. _____

UL 1741 Listed Yes No

Estimated Start Date _____ Estimated Completion Date _____

Customer Signature:

I hereby certify that I have read the Net-Metering Interconnection Guidelines and Procedures and that the information provided in the application is true.

Name _____

Signature: _____

Date: _____

\$50 Application Fee Enclosed

This application is for the Net-Metering request only. A separate Interconnection application must also be completed.

Return to:

Cass County Electric
Engineering: Attn: Troy Knutson
4100 32nd Ave SW
Fargo ND 58104

For Utility Use Only:

Date Received (please stamp) _____

Date Application Approved: _____ by _____

Notes: _____
