
Section 25 COGENERATION AND SMALL POWER PRODUCTION

Cooperative is a member of Corn Belt Power Cooperative ("Corn Belt") and Central Iowa Power Cooperative ("CIPCO"). Corn Belt and CIPCO are generation and transmission cooperatives, and Cooperative obtains all of its wholesale power from either Corn Belt or CIPCO. Corn Belt and CIPCO are sometimes referred to herein as G&T's or G&T. In applying this tariff, those Qualifying Facilities located the service territory formerly served by Greene County Rural Electric Cooperative and located in the counties of Boone, Calhoun, Dallas, Greene, Guthrie, Hamilton, Polk, Story, and Webster shall be considered in the CIPCO area and those Qualifying Facilities located in the service territory formerly served by Hardin County Rural Electric Cooperative and located in the counties of Franklin, Grundy, Hamilton, Hardin, and Story and those Qualifying Facilities located in the service territory formerly served by Humboldt County Rural Electric Cooperative and located in the counties of Humboldt, Kossuth, Pocahontas, Webster and Wright shall be considered in the Corn Belt area. The Cooperative and Corn Belt have filed a Joint Implementation Plan with the Federal Energy Regulatory Commission ("FERC") which provides for coordinated implementation of the obligations of Corn Belt and Cooperative relative to qualifying facilities. Pursuant to said Plan, Cooperative agrees to provide to any qualifying facility in its service territory supplementary, backup, maintenance, and interruptible power and Corn Belt agrees to purchase energy and capacity from said facility, all in accordance with the requirements of the Public Utilities Regulatory Policies Act ("PURPA"). In the Corn Belt area, those provisions of this tariff relating to sales to the qualifying facility shall apply to Cooperative and those provisions regarding purchases from the qualifying facility shall apply to Corn Belt. Accordingly, any qualifying facility seeking services pursuant to this tariff should coordinate their efforts with both Corn Belt and Cooperative. The Cooperative also notes that Corn Belt obtains its wholesale power from Basin Electric Power Cooperative, and coordination with said entity may also be necessary for facilities located in the Corn Belt area.

25.1 Availability

This section shall apply to any member-consumer within the Cooperative's assigned service area owning or leasing a qualifying facility who meets the definitions under the rules of the Public Utility Regulatory Policies Act of 1978, as a qualifying alternate energy production facility, or a qualifying small hydro facility ("QF" or "Qualifying Facility"). A member-consumer owning or leasing electric generating equipment shall not connect it in parallel with the Cooperative or G&T's system without the prior written consent of the Cooperative or G&T. Any third party wishing to locate a qualifying facility on the member-consumer's premises who wishes to sell the output of said facility to the member-consumer shall not operate the facility in parallel with the Cooperative or G&T's system without the prior written consent of the Cooperative or G&T. Failure of the member-consumer or third party to comply with the Cooperative or G&T's requirements for parallel generation shall be justification for discontinuance of such

parallel operation in such a manner as to least inconvenience the member-consumer until such time as full compliance has been accomplished. Each of these types of facilities shall comply with all of the Cooperative or G&T requirements and general rules for electric service, as well as the specific provisions of this section. For purposes of interconnecting a qualifying facility owned by a third-party to the Cooperative or G&T's system, the third party shall be responsible for complying with the interconnection requirements and shall submit an application to the Cooperative on the applicable forms. Said third party shall be deemed the interconnection member-consumer for the purpose of this tariff

25.2 Definitions

Unless otherwise defined herein, terms used shall have the same meaning as defined in 199 IAC 45.1.

"Avoided Costs" means the incremental costs to the Cooperative/G&T of electric energy or capacity (or both) which, but for the purchase from the qualifying facility or qualifying facilities, the Cooperative/G&T would generate itself or purchase from another source. As noted elsewhere, the Cooperative purchases all of its power requirements from its wholesale power suppliers, Corn Belt and CIPCO. As reflected in the Joint PURPA Implementation Plan filed with FERC by Cooperative and Corn Belt, and pursuant to other FERC precedent, the Cooperative's avoided costs in the Corn Belt area shall equal those of Corn Belt, and Corn Belt shall be responsible for calculating the Cooperative's Avoided Costs for this area, and the Cooperative's avoided cost in the CIPCO area shall be calculated by the Cooperative and be consistent with applicable laws and regulations.

"Nameplate Capacity" means the maximum rated output of a generator, prime mover, or other electric production equipment under specific conditions designated by the manufacturer and usually indicated on a nameplate physically attached to the power production equipment.

25.3 Requirements for Interconnection

All facilities shall meet certain requirements to be eligible for interconnection pursuant to the terms and conditions of this section. The Cooperative shall assist the applicant in determining the appropriate level of review process required for the interconnection. The Cooperative has developed 4 levels of review process. The appropriate level generally depends upon the size and type of generator and the type of interconnection requested. The levels of review are described in the Attached Appendix A. For purposes of determining the appropriate level of review and the appropriate metering and other interconnection requirements, the nameplate capacity of all Qualifying Facilities located on the same premises and having common ownership shall be aggregated.

Issued: 8/26/2015

Issued By: /s/ Jack Runge

Title: President

Effective Date: 8/26/2015

25.3.1 Application for Interconnection

The applicant shall submit an application to the Cooperative, using either the Application form attached as Appendix B (Level 1 Application) or the Application form attached as Appendix D (Application form for Levels 2, 3, and 4), depending upon the Level of review required.

25.3.2 Acceptable Interconnection Standards

Permission to interconnect with the Cooperative or G&T electric system is contingent upon the following conditions:

- A. The member-consumer shall comply with acceptable standards for interconnection, safety, and operating reliability. Acceptable standards include the most current revisions of the following, as adopted in the Iowa Administrative Code section 199-15.10(1), in order to be eligible for interconnection to the Cooperative or G&T electric system:
1. Standards for Interconnecting Distributed Resources with Electric Power Systems, ANSI/IEEE Standard 1547-2003. For guidance in applying IEEE Standard 1547, the Cooperative may refer to:
 - 1) IEEE Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems - IEEE Standard 519-1992; and
 - 2) IEC/TR3 61000-3-7 Assessment of emission limits for fluctuating loads in MV and HV power systems.
 2. Iowa Electrical Safety Code, as defined in 199—Chapter 25.
 3. National Electrical Code, ANSI/NFPA 70-2011.
- B. The member-consumer facility shall meet the standards for interconnection as set forth in the Model Interconnection Agreements and the attachments thereto. Said Model Agreements are attached hereto as Appendices B and E.
- C. The member-consumer shall agree to indemnify and defend the Cooperative and G&T and their representatives against liability for any injuries or damages caused by the operation of the member-consumer's equipment or by any failure of the member-consumer to maintain such equipment in satisfactory or safe operating condition. The member-consumer will arrange for and maintain liability insurance with limits of not less than those set forth in the attached appendices, with the insurance requirements varying depending upon the size of the interconnecting generator. Failure to maintain required insurance or proof of financial responsibility shall be cause for disconnection. The Cooperative and the applicable G&T shall be named as additional insured's, to the extent specified in the attached appendices.

Issued: 8/26/2015

Issued By: /s/ Jack Runge

Title: President

Effective Date: 8/26/2015

- D. The member-consumer shall reimburse the Cooperative or G&T for costs incurred by the Cooperative or G&T for all costs of connection, switching, metering, transmission, distribution, safety provisions and administrative costs incurred by the Cooperative or G&T directly related to the installation and maintenance of the physical facilities necessary to permit interconnected operations with a qualifying facility, to the extent the costs are in excess of the corresponding costs which the Cooperative or G&T would have incurred if it had not engaged in interconnected operations, but instead generated an equivalent amount of electric energy itself or purchased an equivalent amount of electric energy or capacity from other sources. Interconnection costs do not include any costs included in the calculation of avoided costs.
- E. The member-consumer shall agree to discontinue sales to Cooperative/G&T when, due to operational circumstances, purchases from the member-consumer will result in G&T costs greater than those which G&T would incur if it did not make such purchases, but instead generated an equivalent amount of energy, provided, however, that G&T shall notify the member-consumer within a reasonable amount of time to allow the member-consumer to cease the delivery of energy.
- F. The applicant and the Cooperative shall execute the applicable Model Interconnection Agreement prior to interconnection. In the event the applicant desires to sell any excess output from its facility, a separate power purchase agreement shall be required for all interconnections except Level 1. For Level 1 interconnections, the terms of purchase are set out on Attachment 2 to the Level 1 Standard Application Form and Interconnection Agreement. In the Corn Belt area, any sales must be made to Corn Belt. In the CIPCO area, the sales could be made to either CIPCO or Midland, depending upon the utility's capacity to make the purchase and the agreement of the parties.

Issued: 10/26/2011

Issued By: /s/ Jack Runge

Title: President

Effective Date: 01/01/2012

- G. The member-consumer shall permit Cooperative or G&T representatives to enter upon member-consumer's property at any reasonable time for the purpose of inspecting or testing member-consumer's equipment, facilities or apparatus and the accuracy of the Cooperative or G&T's metering equipment, but such inspections shall not relieve the member-consumer of the obligation to maintain the member-consumer's facilities in satisfactory operating condition. The Cooperative or G&T may charge the direct expense of such inspecting or testing of the member-consumer's equipment, facilities or apparatus to the member-consumer, unless the member-consumer can demonstrate the inspecting and testing was not necessary. The member-consumer shall adopt a program of inspection of the generator and its appurtenances and the interconnection equipment in order to determine necessity for replacement and repair.
- H. The member-consumer shall be responsible for the costs of installation and maintenance of any necessary power factor correction capacitors. Member-consumers with a distributed generation facility larger than or equal to 1 MVA shall design their distributed generation facilities to maintain a power factor at the point of interconnection between .95 lagging and .95 leading at all times. Member-consumers with a distributed generation facility smaller than 1 MVA shall design their distributed generation facility to maintain a power factor at the point of interconnection between .90 lagging and .90 leading at all times.
- I. The member-consumer's electric generating equipment shall be designed; operated and maintained in such a manner that it does not adversely affect the Cooperative's or G&T's system or their service to their other members.

25.4 Rates for Purchased Power

25.4.1 Rates for purchases by the member-consumer from the Cooperative

The member-consumer shall purchase electric power and energy from the Cooperative at the Cooperative's applicable price or rate, depending upon the member-consumer's operations and requirements. The Cooperative does not currently have a separate price or rate schedule for co-generators and small power producers with a capacity of less than 150 kW, but reserves the right to create a separate price or rate based upon the unique characteristics of such member-consumers. All member-consumers with generators 150 kW or greater in the Corn Belt area who elect to self-generate shall be subject to the member standby rate.

25.4.2 Rates for purchases from member-consumer

General PURPA purchase rates:

Payment for purchases by Corn Belt from the member-consumer in the Corn Belt area and the payment for purchases by Midland and/or CIPCO from the member-consumer in the CIPCO area pursuant to this tariff provision shall be as follows:

QFs with design capacity of 100 kW or less

The rate(s) for purchases from a qualifying facility (as defined above) and with a design capacity of 100 kilowatts or less are available by contacting the Cooperative. These rates will be consistent with 18 CFR 292.304.

QFs with a design capacity of greater than 100 kW

The rate(s) for purchases from qualifying facilities (as defined above) and with a design capacity of greater than 100 kilowatts are available on a negotiated case-by-case basis with the Midland and/or CIPCO.

Net Metering Option:

The Cooperative has developed a Net Metering option for facilities with an installed design capacity at any one geographic location of less than 50 kW and which is intended to serve only the electrical requirements of the owner of the net metering facility. Such facilities will be referred to in this tariff individually as "Net Metering Facility." The availability of this optional rate is subject to a total facility cap of 270 kW of nameplate capacity on the Cooperative's system. The Net Metering terms will be as set forth in Attachment 2 of the Level 1 Standard Application Form and Interconnection Agreement (Appendix B) or the Separate Power Purchase Agreement for other Levels of interconnection.

Subtractive electric heat metering is not allowed under the Net Metering option.

Issued: 12/19/2012

Issued By: /s/ Jack Runge

Title: President

Effective Date: 01/01/2013

Small Renewable Alternate Energy Rate/Consumer Wind Energy Purchase Rate/ Distributed Generation Purchase Rate:

Member-Consumers with their own generation located in the Corn Belt area may be eligible for special incentive rates made available through Corn Belt Power Cooperative. These rates are in lieu of the PURPA Avoided Cost Rate and the rates are available by contacting the Cooperative. A QF electing this rate must meet the eligibility criteria as set forth in the applicable rate schedule and must complete the associated application forms.

25.4.3 Wheeling Charges

Cooperative/G&T may provide a wheeling service to a facility interconnected to its electric delivery system; but shall not be obligated to do so. Any charges for the wheeling of power will be determined by the Cooperative/G&T and in accordance with any applicable regulations. In addition, Cooperative/G&T reserve(s) the right to refuse to wheel power where its existing facilities do not have adequate capacity and the member-consumer refuses to pay the costs to upgrade those facilities. If a qualifying facility agrees, the Cooperative/G&T which would otherwise be obligated to purchase electricity from such facility may transmit the electricity to any other electric utility. Any electric utility to which such electricity is transmitted shall purchase such electricity as if the facility were supplying electricity directly to such electric utility. The rate for purchase by the electric utility to which such electricity is transmitted shall be adjusted downward according to the mutual agreement of the transmitting and receiving utilities, to reflect any wheeling line losses and shall not include any charges for transmission.

Appendix A - Levels of Review

Level 1

Level 1 Application and Agreement shall be used for all interconnection requests to connect a distributed generation facility when:

- a. The applicant has filed a Level 1 application; and
- b. The distributed generation facility has a nameplate capacity rating of 10 kVA or less; and
- c. The distributed generation facility is inverter-based; and
- d. The member-consumer interconnection equipment proposed for the distributed generation facility is lab-certified; and
- e. No construction of facilities by the cooperative or G&T shall be required to accommodate the distributed generation facility.

To remain in Level 1, the following screens must be met:

- For interconnection to a radial distribution circuit, the total of all distributed generation facilities connected may not exceed 15% of the maximum load normally supplied by the circuit
- For interconnection on a single-phase shared secondary line, the aggregate generation capacity on the line will not exceed 20 kVA
- When the distributed generation facility is single-phase and proposes to interconnect on a center tap neutral of a 240 volt service, its addition may not create an imbalance between the 2 sides of the 240 volt service of more than 20% of nameplate rating of the service transformer
- Utility shall not be required to construct any facilities on its own system to accommodate the distributed generation facility's interconnection
- For interconnection to a spot network, distributed generation facility will use protective equipment to ensure power imported from utility to the network will remain above 1% of the network's maximum load over the last year

Level 2

Issued: 10/26/2011
Issued By: /s/ Jack Runge Title: President Effective Date: 01/01/2012

Level 2 Application and Agreement shall be used for evaluating interconnection requests when:

- a. The applicant has filed a Level 2 application; and
- b. The nameplate capacity rating is 150 kVA or less; and
- c. The interconnection equipment proposed for the distributed generation facility is lab certified; and
- d. The proposed interconnection is to a radial distribution circuit or a spot network limited to serving one member-consumer; and
- e. No construction of facilities by the cooperative or G&T shall be required to accommodate the distributed generation facility, other than minor modifications permitted by the Cooperative.

To remain in Level 2, the following screens must be met:

- For interconnection to a radial distribution circuit, the total of all distributed generation facilities connected may not exceed 15% of the maximum load normally supplied by the circuit
- The proposed distributed generation facility, in aggregation with other distributed generation facilities on the distribution circuit, may not contribute more than 10% to the circuit's maximum fault current at the point on the primary line nearest the point of interconnection
- The proposed distributed generation facility, in aggregation with other distributed generation facilities on the circuit, shall not cause any electric utility distribution devices to be exposed to fault currents exceeding 90% of their short-circuit interrupting capability.
- When a distributed generation facility is to be connected to a 3-phase, 3-wire primary line, a 3-phase or single-phase generator shall be connected phase-to-phase
- When a distributed generation facility is to be connected to a 3-phase, 4-wire primary line, a 3-phase or single-phase generator shall be connected line-to-neutral and shall be grounded
- For interconnection on a single phase shared secondary line, the aggregate generation capacity on the line will not exceed 20 kVA
- When the distributed generation facility is single-phase and proposes to interconnect on a center tap neutral of a 240 volt service, its addition may not create an imbalance between the 2 sides of the 240 volt service of more than 20% of nameplate rating of the service transformer
- A distributed generation facility, in aggregate with other distributed generation facilities interconnected to the distribution side of a substation transformer feeding the circuit where the facility proposed to interconnect, may not exceed 10 MVA in an area where there are transient stability limitations

Issued: 10/26/2011

Issued By: /s/ Jack Runge

Title: President

Effective Date: 01/01/2012

- Utility shall not be required to construct any facilities on its own system to accommodate the distributed generation facility's interconnection, except minor modifications following agreed upon additional review.
- For interconnection to a spot network, distributed generation facility will use protective equipment to ensure power imported from utility to the network will remain above 1% of the network's maximum load over the last year

Level 3

Level 3 Application and Agreement shall be used for evaluating interconnection requests to area networks and radial distribution circuits where power will not be exported based on the following criteria.

- a. For interconnection requests to the load side of an area network, the following criteria shall be satisfied to qualify for a Level 3 expedited review:
 - (1) The applicant has filed a Level 3 application; and
 - (2) The nameplate capacity rating of the distributed generation facility is 50 kVA or less; and
 - (3) The proposed distributed generation facility uses a lab-certified inverter-based equipment package; and
 - (4) The distributed generation facility will use reverse power relays or other protection functions that prevent the export of power into the area network; and
 - (5) The aggregate of all generation on the area network does not exceed the lower of 5 percent of an area network's maximum load or 50 kVA; and
 - (6) No construction of facilities by the cooperative or G&T shall be required to accommodate the distributed generation facility.

- b. For interconnection requests to a radial distribution circuit, the following criteria shall be satisfied to qualify for a Level 3 expedited review:
- (1) The applicant has filed a Level 3 application; and
 - (2) The aggregated total of the nameplate capacity ratings of all of the generators on the circuit, including the proposed distributed generation facility, is less than 150 kVA; and
 - (3) The distributed generation facility will use reverse power relays or other protection functions that prevent power flow onto the electric distribution system; and
 - (4) The distributed generation facility is not served by a shared transformer; and
 - (5) No construction of facilities by the cooperative or G&T on their own systems shall be required to accommodate the distributed generation facility.

To remain in Level 3, the following screens must be met:

- Utilize the same screens as are applicable for level 2 interconnections; except for the one prohibiting the total distributed generation facilities connected to a radial distribution circuit from exceeding 15% of the maximum load normally supplied by the circuit

Level 4

Level 4 Application and Agreement shall be used for evaluating interconnection requests when:

- a. The applicant has filed a Level 4 application; and
- b. The nameplate capacity rating of the distributed generation facility is 10 MVA or less; and
- c. Not all of the interconnection equipment or distributed generation facilities being used for the application are lab-certified, or
- d. Applicant is unable to comply with level 1 through 3 screens.

Appendix B – Level 1 standard application form and distributed generation interconnection agreement

LEVEL 1:

STANDARD APPLICATION FORM AND INTERCONNECTION AGREEMENT

Interconnection Request Application Form and
Conditional Agreement to Interconnect
(For Lab-Certified Inverter-Based Distributed Generation Facilities 10 kVA or Smaller)

AN APPLICATION FEE OF \$50 MUST BE SUBMITTED WITH THE APPLICATION

Interconnection Applicant Contact Information (Applicant must be owner or lessee of the facility)

Name: _____
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Telephone (Daytime): _____ (Evening): _____
Facsimile Number: _____ E-Mail Address: _____

Alternate Contact Information (if different from Applicant)

Name: _____
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Telephone (Daytime): _____ (Evening): _____
Facsimile Number: _____ E-Mail Address: _____

Equipment Contractor

Name: _____
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Telephone (Daytime): _____ (Evening): _____
Facsimile Number: _____ E-Mail Address: _____
License number (if applicable): _____
Active License? (if applicable) Yes ___ No ___

Issued: 8/26/15
Issued By: /s/ Jack Runge Title: President Effective Date: 8/26/15

Electrical Contractor (if Different from Equipment Contractor):

Name: _____
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Telephone (Daytime): _____ (Evening): _____
Facsimile Number: _____ E-Mail Address: _____
License number: _____
Active License? Yes ___ No ___

Third-Party Information (only complete this section if the facility is to be located on the premises of someone other than the applicant):

Location of proposed facility: _____
Name of Customer at said location: _____
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Telephone (Daytime): _____ (Evening): _____
Facsimile Number: _____ Email address: _____

Intent of Generation

Please explain the intended use of the generation to be produced by the facility:

- Offset Load (Unit will operate in parallel, but will not export power to Cooperative or G&T) (If this option is selected, neither the Cooperative nor the G&T will purchase any portion of the generation facility output, and Attachment 2 is not applicable)
- Self-Use and Sales to the Cooperative or Corn Belt (Unit will operate in parallel and may export and sell excess power to Cooperative or Corn Belt. In the CIPCO area, the sales will be to the Cooperative. In the Corn Belt area, the sales will be to Corn Belt pursuant to the Cooperative's and Corn Belt's Joint PURPA Implementation Plan. The sale of excess power shall be under the terms set forth in Attachment 2, which attachment must be executed by Cooperative and Corn Belt if in the Corn Belt area).
- Cooperative has developed a net metering option for certain facilities as described in Attachment 2. Check here if the Net Metering Option is desired and the QF meets the required conditions: _____
- Sell all output to the G&T pursuant to following special rate (Specify applicable rate): _____

- Back-up Generation (Units that temporarily operate in parallel with the electric distribution system for more than 100 milliseconds)
(Note: Back-up units that do not operate in parallel for more than 100 milliseconds do not need an interconnection agreement.) (Under this option, the Cooperative will not purchase any portion of the generation facility output, and Attachment 2 is not applicable)

- Sale of generation output to customer upon whose premises the facility is located, and to export and sell any excess power to the Cooperative, which sales may require a separate point of interconnection, metering, and power purchase agreement.

- Other: (Please Explain): _____

Note: The Cooperative is a Member of Corn Belt Power Cooperative (Corn Belt), and the Cooperative and Corn Belt are parties to a Joint PURPA Implementation Plan filed with FERC, pursuant to which any purchase from a Qualifying Facility is to be made by Corn Belt rather than Cooperative. This Joint PURPA Implementation Plan is applicable to Qualifying Facilities locating in the Corn Belt service area of the Cooperative as described in the Cooperative's tariff.

Distributed Generation Facility ("Facility") Information

Facility Address: _____
City: _____ State: _____ Zip Code: _____
Cooperative serving Facility site: _____
Account Number of Facility site (existing cooperative member-consumers): _____
Inverter Manufacturer: _____ Model: _____

Is the inverter lab certified as that term is defined in Iowa Utilities Board Chapter 45 Rules on Electric Interconnection of Distributed Generation (199 IAC 45.1)?
Yes ___ No ___

(If yes, attach manufacturer's technical specifications and label information from a nationally recognized testing laboratory.)

Generation Facility Nameplate Rating: _____(kW) _____(kVA) _____(AC Volts)

Energy Source: Wind ___ Solar ___ Biomass ___ Hydro ___ Diesel ___
Natural Gas ___ Fuel Oil ___ Other: _____

Energy Converter Type: Wind Turbine ___ Photovoltaic Cell ___ Fuel Cell ___
Reciprocating Engine ___ Other: _____

Issued: 8/26/15
Issued By: /s/ Jack Runge Title: President Effective Date: 8/26/15

Commissioning Test Date: _____

(If the Commissioning Test Date changes, the interconnection member-consumer must inform the Cooperative as soon as it is aware of the changed date.)

Disconnect Switch: Identify type and location of disconnect switch: _____

Insurance Disclosure

The attached terms and conditions contain provisions related to liability and indemnification and should be carefully considered by the interconnection member-consumer. **The interconnection member-consumer shall carry general liability insurance coverage, such as, but not limited to, homeowner's insurance.**

Other Facility Information

One-Line Diagram – A basic drawing of an electric circuit in which one or more conductors are represented by a single line and each electrical device and major component of the installation, from the generator to the point of interconnection, are noted by symbols.

One-Line Diagram attached: ___ Yes

Plot Plan – A map showing the distributed generation facility's location in relation to streets, alleys, or other geographic markers.

Plot Plan attached: ___ Yes

Customer Signature

I hereby certify that: (1) I have read and understand the terms and conditions, which are attached hereto by reference; (2) I hereby agree to comply with the attached terms and conditions; and (3) to the best of my knowledge, all of the information provided in this application request form is complete and true.

Applicant Signature: _____

Title: _____ Date: _____

.....

This Application Form and Interconnection Agreement is comprised of: 1) the Level 1 Standard Application Form and Interconnection Agreement; 2) the Attachment 1 setting forth the Terms and Conditions for Interconnection; 3) the Attachment 2 setting forth the terms for purchases by the Cooperative or G&T from the distributed generation facility, when applicable; and 4) the Certificate of Completion

NOTE: If the Certificate of Completion is not completed and returned to the Cooperative within 12 months following the Cooperative's dated conditional agreement to interconnect below, this Application Form and Interconnection Agreement will automatically terminate and be of no further force and effect.

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Conditional Agreement to Interconnect Distributed Generation Facility

Receipt of the application fee, if any, is acknowledged, and, by its signature below, the Cooperative has determined the interconnection request is complete. Interconnection of the distributed generation facility is conditionally approved contingent upon the attached terms and conditions of this Agreement, the return of the attached Certificate of Completion, duly executed verification of electrical inspection and successful witness test. Note that to the extent the Interconnection Customer wishes G&T to purchase any output from the interconnected generation facility, Attachment 2 shall be applicable and the same shall be executed by the Interconnection Customer, Cooperative, & G&T, or a separate power purchase agreement shall be executed by the Customer and G&T.

Cooperative Signature: _____ Date: _____

Name: _____ Title: _____

ATTACHMENT 1

Level 1: Standard Interconnection Agreement

Terms and Conditions for Interconnection

- 1) Construction of the Distributed Generation Facility. The interconnection member-consumer may proceed to construct (including operational testing not to exceed 2 hours) the distributed generation facility, once the conditional Agreement to interconnect a distributed generation facility has been signed by the Cooperative.
- 2) Final Interconnection and Operation. The interconnection member-consumer may operate the distributed generation facility and interconnect with the Cooperative's electric distribution system after all of the following have occurred:
 - a. Electrical Inspection: Upon completing construction, the interconnection member-consumer shall cause the distributed generation facility to be inspected by the local electrical inspection authority who shall establish that the distributed generation facility meets local code requirements.
 - b. Certificate of Completion: The interconnection member-consumer shall provide the Cooperative with a copy of the Certificate of Completion with all relevant and necessary information fully completed by the interconnection member-consumer, as well as an inspection form from the local electrical inspection authority demonstrating that the distributed generation facility passed inspection.
 - c. The Cooperative has completed its witness test as per the following:
 - i. The interconnection member-consumer shall provide the Cooperative at least 15 business days' notice of the planned commissioning test for the distributed generation facility. Within 10 business days after the commissioning test, the Cooperative may, upon reasonable notice and at a mutually convenient time, conduct a witness test of the distributed generation facility to ensure that all equipment has been appropriately installed and is operating as designed and in accordance with the requirements of IEEE 1547.

Issued: 8/26/2015

Issued By: /s/ Jack Runge

Title: President

Effective Date: 8/26/2015

- ii. If the Cooperative does not perform the witness test within the 10 business days after the commissioning test or such other time as is mutually agreed to by the Parties, the witness test is deemed waived, unless the Cooperative cannot do so for good cause. In these cases, upon Cooperative request, the interconnection member-consumer shall agree to another date for the test within 10 business days after the original scheduled date.
- 3) IEEE 1547. The distributed generation facility shall be installed, operated and tested in accordance with the requirements of The Institute of Electrical and Electronics Engineers, Inc. (IEEE), 3 Park Avenue New York, NY 10016-5997, Standard 1547 (2003) "Standard for Interconnecting Distributed Resources with Electric Power Systems," as well as any applicable federal, state, or local laws, regulations, codes, ordinances, orders, or similar directives of any government or other authority having jurisdiction.
- 4) Access. The Cooperative must have access to the isolation device or disconnect switch and metering equipment of the distributed generation facility at all times. When practical, the Cooperative shall provide notice to the member-consumer prior to using its right of access. The disconnection device must be visible and located adjacent to or near the member-consumer's electric meter. The member-consumer must provide and attach a permanent placard at the electric meter that clearly identifies the presence and location of the disconnect device.
- 5) Metering. Any required metering shall be installed pursuant to the Cooperative's metering rules filed with the Iowa Utilities Board under Subrule 199 IAC 20.2(5).
- 6) Disconnection. The Cooperative may disconnect the distributed generation facility upon any of the following conditions but must reconnect the distributed generation facility once the condition is cured:
 - a. For scheduled outages, provided that the distributed generation facility is treated in the same manner as Cooperative's load member-consumers;
 - b. For unscheduled outages or emergency conditions;
 - c. If the distributed generation facility does not operate in the manner consistent with this Agreement or the applicable requirements of 199 IAC Chapter 15 or the Cooperative's tariff;
 - d. Improper installation or failure to pass the witness test;
 - e. If the distributed generation facility is creating a safety, reliability or power quality problem;
 - f. The interconnection equipment used by the distributed generation facility is de-listed by the Nationally Recognized Testing Laboratory that provided the listing at the time the interconnection was approved;

Issued: 8/26/2015

Issued By: /s/ Jack Runge

Title: President

Effective Date: 8/26/2015

- g. Unauthorized modification of the interconnection facilities or the distributed generation facility; or
 - h. Unauthorized connection to the Cooperative's electric system.

- 7) Indemnification. The interconnection member-consumer shall indemnify and defend the Cooperative and the Cooperative's directors, officers, employees, and agents from all claims, damages and expenses, including reasonable attorney's fees, to the extent resulting from the interconnection member-consumer's negligent installation, operation, modification, maintenance, or removal of its distributed generation facility or interconnection facilities, or the interconnection member-consumer's willful misconduct or breach of this Agreement. The Cooperative shall indemnify and defend the interconnection member-consumer and the interconnection member-consumer's directors, officers, employees, and agents from all claims, damages, and expenses, including reasonable attorney's fees, to the extent resulting from the Cooperative's negligent installation, operation, modification, maintenance, or removal of its interconnection facilities or electric distribution system, or the Cooperative's willful misconduct or breach of this Agreement.

- 8) Insurance. The interconnection member-consumer shall provide the Cooperative with proof that it has a current homeowner's insurance policy or other general liability policy. The interconnection member-consumer agrees to provide the Cooperative with at least 30 calendar days' advance written notice of cancellation, reduction in limits, or non-renewal of any insurance policy required by this Agreement and may be required to show proof of insurance on an annual basis.

- 9) Limitation of Liability. Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever, provided that in no event shall death, bodily injury or third-party claims be construed as indirect or consequential damages.

- 10) Termination. This Agreement will remain in effect until terminated and may be terminated under the following conditions:
 - a. By interconnection member-consumer - The interconnection member-consumer may terminate this interconnection agreement by providing written notice to the Cooperative. If the interconnection member-consumer ceases operation of the distributed generation facility, the interconnection member-consumer must notify the Cooperative.

Issued: 8/26/2015

Issued By: /s/ Jack Runge

Title: President

Effective Date: 8/26/2015

- b. By the Cooperative - The Cooperative may terminate this Agreement without liability to the interconnection member-consumer if the interconnection member-consumer fails to remedy a violation of terms of this Agreement within 30 calendar days after notice, or such other date as may be mutually agreed to in writing prior to the expiration of the 30 calendar-day remedy period. The termination date may be no less than 30 calendar days after the interconnection member-consumer receives notice of its violation from the Cooperative.
- 11) Modification of Distributed Generation Facility. The interconnection member-consumer must receive written authorization from the Cooperative before making any changes to the distributed generation facility that could affect the Cooperative's distribution system. If the interconnection member-consumer makes such modifications without the Cooperative's prior written authorization, the Cooperative shall have the right to disconnect the distributed generation facility.
- 12) Permanent Disconnection. In the event the Agreement is terminated, the Cooperative shall have the right to disconnect its facilities or direct the interconnection member-consumer to disconnect its distributed generation facility.
- 13) Disputes. Each Party agrees to attempt to resolve all disputes regarding the provisions of this Agreement that cannot be resolved between the two Parties pursuant to the dispute resolution provisions found in Iowa Utilities Board Chapter 45 Rules on Electric Interconnection of Distributed Generation Facilities (199 IAC 45.12). However, Cooperative's agreement to utilize the dispute resolution provisions of the Chapter 45 rules shall not be construed as an agreement concerning the applicability of the balance of said Chapter.
- 14) Governing Law, Regulatory Authority, and Rules. The validity, interpretation and enforcement of this Agreement and each of its provisions shall be governed by the laws of the State of Iowa. Nothing in this Agreement is intended to affect any other agreement between the Cooperative and the interconnection member-consumer.
- 15) Survival Rights. This Agreement shall remain in effect after termination to the extent necessary to allow or require either Party to fulfill rights or obligations that arose under the Agreement.

Issued: 10/26/2011

Issued By: /s/ Jack Runge

Title: President

Effective Date: 01/01/2012

- 16) Assignment/Transfer of Ownership of the Distributed Generation Facility. This Agreement shall terminate upon the transfer of ownership of the distributed generation facility to a new owner unless the transferring owner assigns the Agreement to the new owner, the new owner agrees in writing to the terms of this Agreement, and the transferring owner so notifies the Cooperative in writing prior to the transfer of ownership.
- 17) Definitions. Any term used herein and not defined shall have the same meaning as the defined terms used in Iowa Utilities Board Chapter 45 rules on Electric Interconnection of Distributed Generation Facilities (199 IAC 45.1). However, Cooperative's agreement to utilize the definitions found in the Chapter 45 rules shall not be construed as an agreement concerning the applicability of the balance of said Chapter.
- 18) Notice. The Parties may mutually agree to provide notices, demands, comments, or requests by electronic means such as e-mail. Absent agreement to electronic communication, or unless otherwise provided in this Agreement, any written notice, demand, or request required or authorized in connection with this Agreement shall be deemed properly given when receipt is confirmed after notices are delivered in person, delivered by recognized national courier service, or sent by first-class mail, postage prepaid, return receipt requested to the person specified below:

If Notice is to Interconnection Customer:

Use the contact information provided in the interconnection member-consumer's application. The interconnection member-consumer is responsible for notifying the Cooperative of any change in the contact party information, including change of ownership.

Issued: 10/26/2011

Issued By: /s/ Jack Runge

Title: President

Effective Date: 01/01/2012

If Notice is to Cooperative:

Use the contact information provided below. The Cooperative is responsible for notifying the interconnection member-consumer of any change in the contact party information.

Name: _____
Attention: _____
Mailing Address: _____
City: _____ State: IA Zip Code: _____
Telephone (Daytime): _____ (Evening): _____
Facsimile Number: _____ E-Mail Address: _____

- 19) Interruptions. The Cooperative is not responsible for any lost opportunity or other costs incurred by the interconnection member-consumer as a result of an interruption of service.
- 20) Operator. The interconnection member-consumer shall designate an operator who will be responsible for day-to-day operations of the distributed generation facility and available for communication on a 24 hour per day/7 day per week basis with Cooperative, G&T, the Local Balancing Authority, MISO and other applicable entities with jurisdiction over the operation of the Facility and Cooperative's System.

ATTACHMENT 2

Level 1: Standard Interconnection Agreement

Terms of G&T Purchases from Distribution Facility

1. Agreement to Purchase.

Cooperative is a member of both Corn Belt Power Cooperative ("Corn Belt") and Central Iowa Power Cooperative ("CIPCO") (Corn Belt and CIPCO are sometimes referred to herein as "G&T"), and Cooperative obtains all of its wholesale power from either Corn Belt or CIPCO.

Corn Belt Area:

The Cooperative and Corn Belt have filed a Joint Implementation Plan with the Federal Energy Regulatory Commission ("FERC") which provides for coordinated implementation of the obligations of Corn Belt and Cooperative relative to qualifying facilities located in the Corn Belt area, which consists of the portion of the Cooperative's service territory formerly served by Hardin County Rural Electric Cooperative and located in the counties of Franklin, Grundy, Hamilton, Hardin, and Story. Pursuant to said Plan, Cooperative agrees to provide to any qualifying facility in the Corn Belt portion of its service territory supplementary, backup, maintenance, and interruptible power and Corn Belt agrees to purchase energy and capacity from said facility, all in accordance with the requirements of the Public Utilities Regulatory Policies Act ("PURPA"). In the event Interconnecting Customers in the Corn Belt area select the option of Self-Use and Sales to the G&T on the Application Form, or sale of output to customer upon whose premises the facility is located, then Corn Belt agrees to purchase from the Interconnection Customer such excess energy and capacity as may be available for purchase from the Interconnection Customer's facility and which Interconnection Customer desires to sell to Corn Belt. Cooperative and Corn Belt acknowledge that Interconnection Customer may utilize some of the energy Interconnection Customer generates as it is being generated, or it may sell some of the output to the customer upon whose premises the facility is located, and Corn Belt understands that it will only purchase such excess as Interconnection Customer delivers to Cooperative. In the event the Interconnecting Customer selects the option of selling all output to Corn Belt under one of the special rate options on the Application Form, then Corn Belt agrees to purchase from the Interconnection Customer all energy and capacity from the Interconnection Customer's facility.

Issued: 8/26/2015

Issued By: /s/ Jack Runge

Title: President

Effective Date: 8/26/2015

CIPCO Area:

In the event an Interconnecting Customer located in the CIPCO area (which consists of the service territory formerly served by Greene County Rural Electric Cooperative and located in the counties of Boone, Calhoun, Dallas, Greene, Guthrie, Hamilton, Polk, Story, and Webster) selects the option of Self-Use and Sales to the Cooperative on the Application Form, or sale of output to customer upon whose premises the facility is located, then the Cooperative agrees to purchase from the Interconnection Customer such excess energy and capacity as may be available for purchase by the Interconnection Customer's facility and which Interconnection Customer desires to sell to Cooperative. Cooperative acknowledges that Interconnection Customer may utilize some of the energy Interconnection Customer generates as it is being generated, or it may sell some of the output to the customer upon whose premises the facility is located, and the Cooperative understands that it will only purchase such excess as Interconnection Customer delivers to Cooperative.

In the event the Interconnecting Customer selects the Net Metering Option on the Application form, then the Net Metering provisions below shall apply.

2. Rates

Payment for purchases from the member-consumer pursuant to this contract shall be as follows (Select One):

Corn Belt Area:

- Qualifying Facility Generation Purchase Rate under PURPA.
- Renewable Energy Purchase Rate (Customer keeps Green Tags). The total generator nameplate capacity of the renewable energy generator(s) qualifying for this rate may not exceed a total of 150 kW for a single site or load at this site, whichever is less.
- Renewable Energy Purchase Rate (Customer does not keep Green Tags). The total generator nameplate capacity of the renewable energy generator(s) qualifying for this rate may not exceed a total of 150 kW for a single site or load at this site, whichever is less.
- Net Metering

CIPCO Area:

- Qualifying Facility Generation Purchase Rate under PURPA.
- Net Metering

3. Metering. The Cooperative or G&T will install metering equipment at the point of service to the QF Facility of one of the following types:
- Metering capable of measuring and recording energy flows, on a kWh basis, from the Cooperative to the QF and from the QF to the Cooperative's facilities, with each directional energy flow recorded independently.
 - Metering capable of measuring power flows in each direction on an hourly or other real-time basis.

The Cooperative shall have the opportunity to collect all reasonable costs of metering necessary to allow for sales to the G&T from the Member-Consumer.

4. NET METERING OPTION (Only available in the event the Customer has selected the Net Metering Option and meets the following criteria. The overall system cap shall be applied on a first come first served basis):

This Net Metering option is only available to QF's with a nameplate capacity rating of less than 50 kW, and the individual availability is subject to an overall cap on the Cooperative's system of 270 kW of nameplate capacity.

Subtractive electric heat metering shall not be available for member-consumers who elect to utilize net metering, as the amount to be billed under the electric heat rate and the amount to be billed at the regular tariff rate will not be able to be calculated.

5. Calculation of Net Metering Bill. The QF shall be responsible for payment of any applicable service charge or other applicable charges approved by the Board of Directors that are not collected on the basis of metered registration.

For charges collected on the basis of metered registration, the Cooperative shall, for each monthly billing period, determine the net meter registration of the QF by comparing the directional energy flow in each direction.

If the net meter registration shows that the deliveries of energy in kWh from the QF to the Cooperative exceed the deliveries of energy in kWh from the Cooperative to the QF, the net meter registration in kWh will be carried forward to the next monthly billing period as a Net Metering Credit, expressed in kWh. If the QF has carried over a Net Metering Credit from one or more prior months, the net meter registration from the current month shall be added to the Net Metering Credit that exists from prior months.

Issued: 10/26/2011

Issued By: /s/ Jack Runge

Title: President

Effective Date: 01/01/2012

If the net metering registration shows that deliveries of energy in kWh from the Cooperative to the QF exceed the deliveries of energy in kWh from the QF to the Cooperative, the QF shall pay the Cooperative for the net amount of energy delivered by the Cooperative after application of any Net Metering Credit carried forward from previous months at the rate applicable to its type or class of electric service.

The energy outflows from one meter shall not cover inflows on another meter (regardless of whether owned by the same Member-Consumer), nor shall it be transferred, assigned or sold by the Member-Consumer. Neither the Cooperative nor G&T shall be required to convert any carryover energy outflow balance to cash at any time. Any energy outflow balance after the Net Metering Facility terminates service shall be forfeited.

The Net Metering Facility shall be subject to all terms and conditions of the applicable Cooperative rate schedule.

6. Disposition of Renewable Energy Credits in the Net Metering Scenario. The net metering arrangement provided to Member-Consumer herein is for the purposes of promoting small-scale renewable generation facilities, such as the facility owned by Member-Consumer. The parties agree that all kWh's delivered by the QF to the Cooperative shall be deemed to have been purchased at the point of delivery (by Corn Belt if in the Corn Belt area and by Cooperative if in the CIPCO area), even though the Cooperative shall have given the Member-Consumer Net Metering Credits rather than a cash payment for the same. In addition, such purchases shall include the purchase of any "green tags," renewable energy credits, or other environmental attributes associated with the purchase of renewable energy.
7. Term. The agreement to purchase as described in this attachment shall become effective on the date and year the Standard Application Form and Interconnection Agreement is executed by the parties, and it shall remain in effect for a term of two (2) years from and after the commencement of the initial billing period. This Agreement shall thereafter continue for successive terms of one (1) year each, for a maximum total period to be agreed upon by the parties, unless terminated by either party giving the other not less than three (3) months' written notice of its desire to terminate this Agreement. In no event shall the agreement to purchase extend beyond the date of the Interconnection Agreement, and in the event the Interconnection Agreement is terminated, the agreement to purchase as described in this attachment shall also be terminated.

Issued: 8/26/2015

Issued By: /s/ Jack Runge

Title: President

Effective Date: 8/26/2015

The undersigned parties agree to the terms and conditions of this Attachment 2.

MIDLAND POWER COOPERATIVE

By: _____

Date: _____

CORN BELT POWER COOPERATIVE (if applicable)

By: _____

Date: _____

MEMBER-CONSUMER

By: _____

Date: _____

Appendix C – Standard certificate of completion

CERTIFICATE OF COMPLETION

(To be completed and returned to the Cooperative when installation is complete and final electric inspector approval has been obtained – Use contact information provided on the Cooperative’s web page for generator interconnection to obtain mailing address/fax number/e-mail address)

Interconnection Customer Information

Name: _____
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Telephone (Daytime): _____ (Evening): _____
Facsimile Number: _____ E-Mail Address: _____

Installer: Check if owner-installed: _____

Name: _____
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Telephone (Daytime): _____ (Evening): _____
Facsimile Number: _____ E-Mail Address: _____

Final Electric Inspection and Interconnection Customer Signature

The distributed generation facility is complete and has been approved by the local electric inspector having jurisdiction. A signed copy of the electric inspector’s form indicating final approval is attached. The interconnection member-consumer acknowledges that it shall not operate the distributed generation facility until receipt of the final acceptance and approval by the Cooperative as provided below.

Signed: _____ Date: _____
(Signature of interconnection member-consumer)

Printed Name: _____

Check if copy of signed electric inspection form is attached: _____
Check if copy of as built documents is attached (projects larger than 10 kVA only): _____

MIDLAND POWER COOPERATIVE

Acceptance and Final Approval for Interconnection (for cooperative use only)

Member Information:

Name: _____

Address: _____

Service Location: _____

The interconnection agreement is approved and the distributed generation facility is approved for interconnected operation after final inspection by Cooperative:

Certificate of Completion Received? Yes (____) No (____)

Electrical Inspection Approval Received Yes (____) No (____)

Cooperative waives Witness Test? (Initial) Yes (____) No (____)

If not waived, date of successful Witness Test: _____ Passed: (Initial) (____)

Cooperative Signature: _____ Date: _____

Printed Name: _____ Title: _____

Issued: 1/25/2017

Issued By: /s/ Jack Runge

Title: President

Effective Date: 1/25/2017