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CENTRAL RURAL ELECTRIC COOPERATIVE

Interconnection Application and Agreement

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Cooperative Use Only:

RECEIVED ON: _____

BY: _____

**CENTRAL RURAL ELECTRIC COOPERATIVE
APPLICATION AND AGREEMENT FOR INTERCONNECTION AND NET
METERING OF RENEWABLE ENERGY SYSTEMS WITH CAPACITY OF 300 kW OR
LESS**

PROCEDURES:

1. Members Applying for New Interconnection/Submission of Plans/Specifications

Complete Sections **A, B, C, D, E, F** and **G** attaching all required documents, plans, diagrams, etc. as required by the applicable section(s) of this Application and Agreement and return to Central Rural Electric Cooperative (hereafter referred to as the Cooperative).

The Cooperative will review the completed Application and Agreement including all required documents and either approve or deny within thirty (30) days of receipt. If this Application and Agreement is denied, Member will be provided with the reason(s) for the denial.

2. Members Having Received Approval of Application and Submitted Plans/Specifications.

Construct the Member-Generator System in compliance with the approved plans and specifications set forth in the Application and Agreement and DG Interconnection Guidelines. After construction is finished, complete and submit **Section H** to the Cooperative for inspection and final approval.

Upon receipt of a completed Application and Agreement (including **Section H**) and payment of any applicable costs or other aid to construction, The Cooperative will interconnect the Member-Generator's System to Cooperative's electrical system within fifteen (15) business days if electric service already exists to the premises or no later than fifteen (15) business days after service is established to the premises, unless the Member-Generator and Cooperative mutually agree to a later date.

3. Member Assuming Ownership or Operational Control of an Existing Interconnected Member-Generator System

Complete Sections **A**, and the **Transfer of Existing System to New Owner Section** at the top of page 3, initial and Sign the acknowledgements on pages 8, 9, 10, and return to the Cooperative for review and final approval of the Cooperative (**Section I**).

4. Member Adding Additional Capacity to an Approved System

Member-Generators adding additional capacity to a previously approved system shall submit anew Interconnection Application and Agreement along with the required documentation for review. Any such approved Application and Agreement with additional capacity will be subject to and follow the same guidelines and requirements as if installing a new system.

INTERCONNECTION APPLICATION

A. Member-Generator's Information

Name: _____
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Service/Street Address (if different from above): _____
City: _____ State: _____ Zip Code: _____
Daytime Phone: _____ Fax: _____ E-Mail: _____
Cell Phone: _____ Emergency Contact Phone: _____
Cooperative Account No. (from Electric Bill): _____

B. Member-Generator's System Information

Please check appropriate box and fill out all applicable information:

New System: Transfer of system to new owner: Adding Additional Capacity:

System Information

Manufacturer's Name Plated Output: AC Power Rating: (rated) _____ kW; Voltage: _____ Volts

System Type: Solar Wind Biomass Fuel Cell

Other Renewable (describe) _____ Is the system connected to a battery

bank for backup power? Yes No

If so, battery output AC Power Rating: (rated) _____ kW; (rated) _____ kWh

Inverter/Interconnection Equipment Manufacturer: _____

Inverter/Interconnection Equipment Model No.: _____

Are Required Documents Attached?

Wiring Diagram: Yes No

System Plans: Yes No

Specifications: Yes No

Inverter/Interconnection Equipment Location (describe):

Outdoor Manual / Utility Accessible & Lockable Disconnect Switch Location (describe):

Location and Description of Automatic Mechanism to Disable the System and Prevent Back-feed:

Existing Electrical Service Capacity: _____ Amperes Voltage: _____ Volts

Service Characteristics: Single Phase Three Phase

Transfer of Existing System to New Owner

Previous owner Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Has additional capacity been installed to existing system? If so, submit a new Interconnection Application and Agreement along with the required documentation for review. Any such approved Application and Agreement with additional capacity will be subject to and follow the same guidelines and requirements as if installing a new system.

C. Installation Information

County / City Permit Number (if applicable): _____

Person or Company Installing: _____

Contractor's License No. (if applicable): _____

Approximate Installation Date: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Daytime Phone: _____ Fax: _____ E-Mail: _____

Cell Phone: _____ Emergency Contact Phone: _____

D. Installation Compliance

Qualified Professional Electrician or Engineer Who Will Inspect/Certify Installation:

Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Phone: _____ Fax: _____ Email: _____

TERMS AND CONDITIONS:

E. In addition to abiding by the Cooperative's Bylaws, rules, policies and regulations, the Member-Generator, by completing and signing this Application and Agreement, agrees to comply with the following specific terms and conditions:

1. Required Documentation. The Member-Generator shall provide a site-specific wiring diagram, the plans and specifications describing the net metering, parallel generation and interconnection facilities (herein collectively referred to as the "Member-Generator's System") and submit them to the Cooperative as set forth in this Application and Agreement and as may be required under any Member Generator System Additional Capacity Interconnection Notice

2. Capacity Limitations. The capacity of the Member-Generator's System may not exceed the greater of:
a) 300 kilowatts (kW's); and
b) 125% of the Member-Generator's average peak load of the service.

3. Binding Contract. When the fully completed and executed Member-Generator Application and Agreement receives final approval from the Cooperative, it shall become a binding contract and shall govern your relationship with the Cooperative regarding interconnection and net metering of the Member-Generator's System and shall govern the installation of any additional Member-Generator System capacity. All Applications and Agreements receiving final approval from the Cooperative must be acted upon by the Member-Generator within one year of the date of approval.

4. Operation/Disconnection. If it appears to the Cooperative, that at any time and in the reasonable exercise of its judgment, that the operation of the Member-Generator's System is adversely affecting safety, power quality or reliability of the Cooperative's electrical system, the Cooperative may immediately disconnect and lock-out the Member-Generator's System from the Cooperative's electrical system. The Member-Generator shall permit Cooperative employees and inspectors' reasonable access to inspect, test, and examine the Member-Generator's System to determine if same is adversely affecting safety, power quality or reliability of the Cooperative's electrical system.

5. Metering Equipment. The Member-Generator's System shall be equipped with sufficient metering equipment capable of measuring the net amount of electrical energy both produced and consumed by the Member-Generator, either by employing a single, bi-directional meter that measures the amount of electrical energy produced and consumed, or by employing multiple meters that separately measure the Member-Generator's consumption and production of electricity.

6. Costs of Generator System, Additional Metering and Other Equipment. The Member-Generator shall, at the Member-Generator's cost and expense, install, operate, maintain, repair, and inspect, and otherwise be fully responsible for the Member-Generator's System. The Member-Generator further agrees to pay or reimburse the Cooperative for all costs of additional metering beyond the Member-Generator's existing meter equipment and any additional distribution equipment necessary for the Cooperative to interconnect the Member-Generator's System. The Cooperative shall in its sole discretion determine the specific type of metering equipment necessary for interconnection to the Member-Generator's System.

Line Extension and Modifications to Cooperative Facilities

- a) As a part of the interconnection analysis performed by the Cooperative, the Member-Generator will be provided with an estimate of any line extension or other cost to be incurred in providing service to the Member-Generator's system.
- b) With regard to the Cooperative's line extension policy, the Member-Generator shall pay in advance the full cost of the construction of any transmission, substation, distribution,

transformation, metering, protective, or other facilities or equipment which, at the sole discretion of the Cooperative, is required to be installed to serve the Member-Generator's System.

c) In the event it is necessary at the time of initial interconnection or at some future time for the Cooperative to modify electric delivery systems in order to serve the Member-Generator's System and/or purchase or continue to purchase the Member-Generator's output, or because the quality of the power provided by the Member-Generator's System adversely affects the Cooperative's delivery system, the Member-Generator will reimburse the Cooperative for all costs of modifications required for the interconnection of the Member-Generator's System.

d) In the event Central Rural Electric Cooperative at any time in the future changes primary voltage of distribution facilities serving the Member-Generator's System such that metering equipment, transformers and/or any Member-Generator owned equipment must be changed, the full cost of the change will be borne by the Member-Generator.

e) In all cases, the Member-Generator shall pay the full cost of the installation of a visible load break disconnect switch by and to the sole specification of the Cooperative. The switch will be readily accessible to Cooperative personnel and of a type that can be secured in an open position by a Cooperative lock.

The Member-Generator's payment or reimbursement of the Cooperative's costs for additional metering and other equipment shall be construed as aid to construction only, and the Member-Generator will not acquire any ownership interest in meters, wiring, safety devices or other equipment installed by the Cooperative at the Member-Generator's site. The Cooperative may install and maintain, at its expense, load research metering for monitoring the Member's energy generation and usage and thereafter use or disclose to others all data collected in any manner deemed appropriate by the Cooperative.

7. Severability. If any portion or provision of this Application and Agreement is held or adjudged to be invalid, illegal or unenforceable by any court of competent jurisdiction, such portion shall be deemed separate and independent, and the remainder of this Application and Agreement shall remain in full force and effect.

8. Counterparts. This Agreement may be signed and executed in two or more counterparts, each of which shall be deemed an original, but all of which shall constitute but one and the same instrument.

9. Counterparts and Electronic Signatures. This Application and Agreement may be executed using facsimile or electronic signatures, and such facsimile or electronic version of the Application and Agreement shall have the same legally binding effect as an original paper version. This Application and Agreement may be executed in counterparts, each of which shall be deemed an original.

10. Meter Reading. The meter reading necessary to determine the net amount of electrical energy produced and consumed by the Member-Generator shall be conducted by the Cooperative monthly. The term "monthly" for billing purposes shall mean the period between any two consecutive regular readings by the Cooperative for the meter(s) at the Member-Generator's System, such readings to be taken as nearly as may be practicable every thirty (30) days.

The Member-Generator shall supply, without cost to the Cooperative, an accessible and suitable location, as mutually agreed to between the Member-Generator and the Cooperative, for the meter(s) used for billing, load research and emergency disconnection equipment. All meters used for billing, load research and emergency disconnection equipment shall be accessible at all times to Cooperative personnel.

11. Energy Value and Billing. The value of that amount of electric energy delivered by the Cooperative and consumed by the Member-Generator in excess of the amount of electric energy generated by the Member-Generator's System shall be billed in accordance with the Cooperative's rate schedule applicable to

members in the same rate class as the Member-Generator.

When the Member-Generator's System exceeds the energy supplied by the Cooperative during a billing period, the monthly charge and/or minimum bill of the retail rate schedule shall be billed by the Cooperative; any net excess energy for the billing period shall be credited, or paid, in dollars in the next billing period(s), at the cooperative's avoided energy cost.

12. Cooperative's Limited Liability. With respect to Central Rural Electric Cooperative's provision of electric service to the Member-Generator and the services provided by the Cooperative pursuant to this Application and Agreement, Cooperative's liability shall be limited to claims, losses, costs, and expenses that result from the Cooperative's gross negligence or other willful misconduct, shown by clear and convincing evidence, in connection with the operation or maintenance of its electric distribution system.

13. No Energy Sales to Cooperative. The Member-Generator agrees that interconnection of the Member-Generator's System with the Cooperative's electrical system does not grant the Member-Generator the right to export power, nor does it constitute an agreement by the Cooperative to purchase power or wheel the Member-Generator's excess power.

14. Terms and Termination Rights. This Application and Agreement becomes effective when signed by all parties hereto and shall continue in effect until terminated. Thereafter, The Member-Generator may terminate this Application and Agreement at any time by giving the Cooperative at least thirty (30) days prior written notice. In such event, Member-Generator shall, no later than the date of termination of the Application and Agreement, completely disconnect Member-Generator's System from parallel operation with the Cooperative's electric distribution system. A representative of the Cooperative shall be present to witness the disconnect of the Member-Generator's System or thereafter have the right to examine the Member-Generator's System to verify that it has been physically disconnected from the Cooperative's electrical system. Any party may terminate this Agreement by giving the other parties at least thirty (30) days prior written notice that another party is in default of any of the terms and conditions of this Application and Agreement, except default by Member-Generator in payment of their power bill from the Cooperative, so long as the notice specifies the basis for termination, and there is a reasonable opportunity to cure the default. If Member-Generator is in default because of failure to timely pay their power bill, Cooperative may terminate this Application and Agreement upon disconnection of electric service by the Cooperative to Member-Generator under the Cooperative's applicable policies. This Application and Agreement may also be terminated at any time by mutual written agreement of the parties hereto.

15. Transfer of Ownership. If ownership or operational control of Member-Generator's System transfers to any other party than the Member-Generator, a new Application and Agreement must be completed by the person or persons taking over ownership or operational control of the existing Member-Generator's System. The Cooperative shall be notified in writing no less than thirty (30) days before the Member-Generator anticipates transferring ownership or operational control of the Member-Generator's System. The person or persons taking over operational control of the Member-Generator's System must receive written authorization from the Cooperative before the existing Member-Generator System can remain interconnected with the Cooperative's electrical system.

16. Maintenance and Operation. The Member-Generator agrees to maintain their system and facilities in accordance with applicable manufacturer's recommended maintenance schedule and standard prudent engineering practices. The Member-Generator agrees to operate their system, facilities and equipment so as to minimize the likelihood for a malfunction or other disturbance, damaging or otherwise affecting or impairing the Cooperative's electrical system. The Member-Generator shall comply with all applicable laws, regulations, zoning, building codes, safety rules and other environmental regulations or restrictions applicable to the design, installation, operation, and maintenance of the Member-Generator's System.

The Member-Generator must, at least once every year, conduct a test to confirm that the Member-Generator's System automatically ceases to energize the output (interconnection equipment output voltage goes to zero) upon being disconnected from the Cooperative's electrical system in accordance with the most recent IEEE 1547 guidelines, National Electric Code, National Electric Safety Code. Disconnecting the Member-Generator's System from the Cooperative's electrical system at the visible disconnect switch and measuring the time required for the unit to cease to energize the output shall satisfy this test. The Member-Generator shall maintain a record of the results of these tests and, upon request by the Cooperative, shall provide a copy of the test results to the Cooperative. If the Member-Generator is unable to provide a copy of the test results upon request, the Cooperative shall notify the Member-Generator by mail that the Member-Generator has thirty (30) days from the date the Member-Generator receives the request to provide the Cooperative with the results of a test. If the Member-Generator does not provide the Cooperative with the test results within the thirty (30) days' time period or if the test results provided to the Cooperative show that the Member-Generator's net metering unit is not functioning correctly, the Cooperative may immediately disconnect the Member-Generator's System from the Cooperative's electrical system. If the Member-Generator's equipment ever fails this test, the Member-Generator shall immediately disconnect the Member-Generator's System from the Cooperative's electrical system. The Member-Generator's System shall not be reconnected to the Cooperative's electrical system by the Member-Generator until the Member-Generator's System is repaired and operating in a normal and safe manner. The Cooperative shall have the right to have a representative present and inform when any such tests are conducted. The Cooperative does not warrant the testing procedures or results by the presence of its representative.

The Member-Generator is responsible for protecting their equipment from transient high voltage spikes caused by lightning and/or transient low voltage conditions caused by faults or short circuits, and from any other causes or events. Therefore, the Cooperative shall not be responsible for damage to the Member-Generator's equipment allegedly caused by transient high voltage spikes caused by lightning and/or transient low voltage conditions caused by faults or short circuits or other causes or events.

The Member-Generator agrees to notify the Cooperative no less than thirty (30) days prior to modification of the components or design of the Member-Generator's System that in any way may degrade or significantly alter the System's output characteristics. The Member-Generator acknowledges that any such modifications will require submission of a new Application and Agreement to the Cooperative.

17. Point of Interconnection. The interconnection point between the Member-Generator's System and Cooperative's electrical system shall be at the meter(s).

18. Liability Insurance. The Member-Generator must select the corresponding check box that applies to the capacity of the generating system that is to be interconnected with the Cooperative's system:

Less than Ten Kilowatts Ten Kilowatts or Greater

For systems less than ten kilowatts:

The Cooperative recommends, but does not require, that the Member-Generator have no less than \$100,000 of coverage so long as the Member-Generator's System is interconnected with the Cooperative's electrical system to provide coverage for all risk of liability for personal injuries (including death) and damage to property arising out of or caused by the operation of the Member-Generator's System.

The Member-Generator may provide the recommended level of coverage by contracting with a provider of liability insurance licensed to conduct business in the State of Oklahoma. In such event, the Member-Generator will upon request, furnish the Cooperative with a certificate of insurance evidencing such coverage.

The Member-Generator may self-insure against the risk of liability for personal injuries (including death) and damage to property arising out of or caused by the operation of the Member-Generator's System. In such event, the Member-Generator should have sufficient assets and property to cover the potential liability, ensuing losses, claims, legal actions, expenses including attorney fees and court costs incurred by the Member-Generator for personal injuries (including death) and damage to property caused by operation of the Member-Generator's System.

Please indicate (by checking box and initialing) whether Member-Generator will either:

Obtain liability insurance. _____ (*initial*)

Self-Insure. _____ (*initial*)

For systems ten kilowatts or greater:

The Cooperative requires the Member-Generator to have no less than \$100,000 of coverage so long as the Member-Generator's System is interconnected with the Cooperative's electrical system so as to provide coverage for all risk of liability for personal injuries (including death) and damage to property arising out of or caused by the operation of the Member-Generator's System

The Member-Generator will obtain the recommended level of coverage by contracting with a provider of liability insurance licensed to conduct business in the State of Oklahoma. In such event, the Member-Generator will upon request, furnish the Cooperative with a certificate of insurance evidencing such coverage

19. The Member-Generator's Liability and Indemnification. The Member-Generator shall assume all liability for and shall indemnify and hold harmless the Cooperative, and its members, trustees, directors, officers, managers, employees, agents, representatives, affiliates, successors and assigns from and against any claims, losses, costs and expenses of any kind or character to the extent they result from the Member-Generator's negligence or other wrongful conduct in connection with the design, construction, installation, operation or maintenance of the Member-Generator's System. Such indemnity shall include, but is not limited to, financial responsibility for monetary losses, reasonable costs and expenses of defending an action or claim, damages related to death or injury, damages to property, and damages for the disruption of business.

STOP

Before signing the Member-Generator Acknowledgement on the following page:

1. Have you fully read and understood the terms of this Interconnection Application and Agreement? _____(*initial*)
2. Have you read and fully understood the Distributed Generation Interconnection Guidelines & Manual for Member-Generators, and know your requirements and annual responsibilities for operating a Distributed Generation System that produces power? _____(*initial*)
3. Have you called the Cooperative Representative to answer any questions you may have regarding the Application, Agreement, or Interconnection Guidelines? _____(*initial*)

Distributed Generation Interconnection Guidelines & Manual for Member-Generators

<https://mycentral.coop/sites/mycentralcoop/files/documents/InterconnectionGuidelines.pdf>

Questions?

David Freeman
405-533-4218

dfreeman@mycentral.coop

F. The Member-Generator Acknowledgement:

I have fully read, understand, and accept all provisions, terms and conditions set forth in this Application and Agreement. Furthermore, I agree not to operate the Member-Generator System in parallel with the Cooperative’s electrical distribution system until this Application and Agreement has been approved, the interconnection has passed inspection by a Cooperative Representative, and I have received the Permission to Operate the Member-Generator facilities letter.

Printed Name (Member-Generator): _____ Date: _____

Signed (Member-Generator): _____ Date: _____

Application Fee Rates:	
New Installation < 100 kW	\$100.00
New Installation 100-300 kW	\$500.00
Transfer of Existing Interconnection Agreement	\$50.00
Adding Additional Capacity to an Approved Existing System	\$100.00

Please mail the completed Interconnection Application and payment to:

Central Rural Electric Cooperative

Attn: David Freeman

Address: PO Box 1809

Stillwater OK 74076

Phone: 405-533-4218

G. Pre-Construction Certification

I, _____ (print name), the undersigned, a professional electrician or professional engineer (please circle one) do hereby certify that:

The Member-Generator’s proposed System hardware complies with all current applicable National Electrical Safety Code (NESC), National Electric Code (NEC), Institute of Electrical and Electronics Engineers (IEEE) and Underwriters Laboratories (UL) requirements for electrical equipment and their installation and shall comply with all successor standards. The proposed installation complies with all applicable state regulations, local electrical codes and all reasonable safety requirements of the Cooperative. The proposed System has a lockable, visible, manual disconnect device, clearly marked "Distributed Generation Disconnect" accessible at all times to Cooperative personnel located at the metering point or other location mutually agreed to between Member-Generator and the Cooperative. In addition to the one lockable, visible disconnect device, the System has a functioning mechanism that automatically disables the Member-Generator’s System and interrupts the flow of electricity back onto the Cooperative’s distribution system in the event that electrical service to the Member-Generator is interrupted, thereby preventing the possibility of back-feed.

The Member-Generator’s proposed System has functioning controls as specified by current IEEE and UL standards, including, but not limited to control to prevent voltage flicker, DC injection, over voltage, undervoltage, over-frequency, underfrequency, and overcurrent, and to provide for System synchronization to the Cooperative’s electrical system. The proposed System does have an anti-islanding function that prevents the generator from continuing to supply power when the Cooperative’s electric system is not energized or operating normally. If the proposed System is designed to provide uninterruptible power to critical loads, either through energy storage or back-up generation, the proposed System includes a parallel blocking scheme for this backup source that prevents any backflow of power to the Cooperative’s electrical system when the electrical system is not energized or not operating normally.

Signature: _____ Date: _____

Print Name: _____

(If Applicable) License # _____ Expiration Date: _____ Issued by: _____

Approval of Application. Central Rural Electric Cooperative does not, by approval of this Application, assume any responsibility or liability for damage to property or physical injury to persons due to malfunction of Member-Generator’s System or Member-Generator’s negligence.

This Application is approved by:

Cooperative Representative Name and Title (print): _____

Signature of Cooperative Representative: _____

Date: _____

Post-Construction Form

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Service/Street Address (if different from above): _____

City: _____ State: _____ Zip Code: _____

Daytime Phone: _____ Fax: _____ E-Mail: _____

Cell Phone: _____ Emergency Contact Phone: _____

Cooperative Account No. (from Electric Bill): _____

H. Post-Construction Certification

I, _____ (print name), the undersigned, a professional electrician or professional engineer (please circle one) do hereby certify that the Member-Generator's System referenced herein and now fully constructed satisfies all requirements noted in Section G, as set forth above.

Signature: _____ Date: _____

Print Name: _____

(If Applicable) License # _____ Expiration Date: _____ Issued by: _____

I. Final Approval of Application and Agreement. Central Rural Electric Cooperative does not, by approval of this Application and Agreement, assume any responsibility or liability for damage to property or physical injury to persons due to malfunction of Member-Generator's System or Member-Generator's negligence.

This Application and Agreement is approved by:

Cooperative Representative Name and Title (print): _____

Signature of Cooperative Representative: _____

Date: _____