COLEMAN COUNTY ELECTRIC COOPERATIVE, INC.

Distributed Generation Procedures and Guideline Manual for Members

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GENERAL

In order to receive service from the Cooperative, a customer must join or become a "Member" of the Cooperative. Throughout this manual, customers will be referred to as "Members." For more information about the cooperative membership application process, including any applicable fees or deposits, see the Cooperative to request new member information.

It is the intent of the Cooperative to allow Members to install Distributed Generation (DG), provided the Member's DG facility does not adversely affect the Cooperative. The Member must conduct his/her own analysis to determine the economic benefit of DG operation.

A DG facility that is not connected to the Cooperative's system in any way is known as "stand-alone" or "isolated" DG. The Member may operate a DG facility in stand-alone or isolated fashion as long as such DG facility does not adversely affect the Cooperative's system. A DG facility connected in any way to the Cooperative's system shall be considered as in "parallel." For purposes of this Manual, a DG facility is considered operating in "parallel" anytime it is connected to the Cooperative's system in any way, even if the Member does not intend to export power. All provisions of this Manual shall apply to parallel operation of DG facilities as so defined.

This Manual is not a complete description or listing of all laws, ordinances, rules and regulations, nor is this Manual intended to be an installation or safety manual. The Member requesting to interconnect a DG facility to the Cooperative's system is responsible for and must follow, in addition to all provisions of this Manual, the Cooperative's *Terms and Conditions of Service*, the Cooperative's *Line Extension Policy*, the *Policies and Procedures* of the Cooperative's power supplier where applicable, the *Policies and Procedures* of the Cooperative's transmission service provider where applicable, the current *IEEE 1547 Standard Guide for Distributed Generation Interconnection* (a copy is on file at the Cooperative for inspection along with information so the Member may obtain his/her own copy), other applicable IEEE standards, applicable ANSI standards, including ANSI C84.1 Range A and any other applicable governmental and regulatory laws, rules, ordinances or requirements. All legal, technical, financial, etc. requirements in the following sections of this Manual must be met prior to interconnection of the DG facility to the Cooperative's system.

A Member may serve all load behind the meter at the location serving the DG facility but will not be allowed to serve multiple meters, multiple consuming facilities or multiple Members with a single DG facility or under a single DG application without prior approval by the cooperative.

DG facilities larger than 50 KW are not covered by this Manual and will be considered by the Cooperative on a case-by-case basis.

I. DETERMINE THE CATEGORY OF DISTRIBUTED GENERATION FACILITY

1) Connection Level Category

- a) Connected to the Cooperative's system The Member requests and/or the Member's DG facility requires connection to the Cooperative's system. All provisions of this manual cover this category.
- b) Connected to the Cooperative's Power Supplier's system
 The Member requests and/or the Member's DG facility requires connection to the
 Cooperative's Power Supplier's system. This manual does NOT cover this
 category. The Member should contact the Cooperative's Power Supplier directly.

2) Power Export Category

- a) Parallel no power export

 The Member operates a DG facility connected <u>in any way</u> to the Cooperative system but with no intention to export power.
- b) Parallel power generated to be both consumed and exported
 The Member operates a DG facility connected <u>in any way</u> to the Cooperative's
 system designed primarily to serve the Member's own load but with the intention
 to export excess power.
- c) Parallel power generated to be exported only
 The Member operates a DG facility connected <u>in any way</u> to the Cooperative's
 system designed primarily with the intention to export power.

3) Qualifying or Non-Qualifying Category

- a) Qualifying Facilities (QF) are defined by the Public Utility Regulatory Policies Act of 1978 (PURPA). Refer to CFR Title 26, Volume 4, Sec. 292.204.
- b) The distinction between QF and Non-Qualifying Facilities (NQF) mainly deals with fuel use.
 - (1) <u>In general</u>, a QF must have as its primary energy source biomass, waste, renewable resources, geothermal resources or any combination. See PURPA for a full description.
 - (2) DG facilities not designated as QF under the provisions of PURPA will be considered NQF by the Cooperative.
- c) The Cooperative will provide interconnection for a DG facility to Members, subject to the provisions of this Manual and all other applicable rules and regulations.
- d) The Cooperative will purchase power from a Member with a DG facility that is a QF, subject to the provisions of this policy and other applicable rules and regulations.
- e) The Cooperative may purchase power from a Member with a DG facility that is an NQF.

4) Size Category

- a) Facilities 50 kW and smaller
 - Facilities ≤ 50 kW of connected generation will be placed in this size category unless the Member requests connection under the > 50 kW size category.
- b) Facilities above 50 kW and below 250 KW (Not Considered under this manual)
 Facilities > 50 kW & < 250 KW of connected generation will be placed in
 this size category. Facilities ≤ 50 kW may be placed in this size category if so
 requested by the Member.
- c) Facilities above 50 KW of connected generation (Not considered under this manual)

II. MEMBER'S INITIAL REQUIREMENTS

1) Notification

- a) The Member must meet all the Cooperative's membership and service requirements in addition to the requirements in the Manual.
- b) Anyone owning or operating a DG facility in parallel with the Cooperative's system must notify the Cooperative of the existence, location and category of the DG facility.

2) Service Request

- a) In advance of request for an interconnection, the Member must contact the Cooperative and complete the "Cooperative Agreement for Interconnection and Parallel Operation of Distributed Generation."
- b) DG facilities under 10 kW in size and of standard manufacture and design (as so determined by the Cooperative) may submit the Agreement Short Form. All other facilities must submit the Agreement Long Form.
- c) A separate form must be submitted for each facility.

3) Submit a DG Plan

- a) As a part of the application, the Member shall submit a plan detailing the electrical design, interconnection requirements, size, and operational plans for the DG facility (the "DG plan"). Either at the time of submission or at any time during the review process, the Cooperative may require additional information or may require the DG plan to be prepared by a Professional Engineer registered in the state of Texas.
- b) In the case of DG facilities (i) to be operated in parallel with the Cooperative's system, (ii) with no intention to export power to the Cooperative and (iii) that are of standard design and intended entirely as emergency or back-up power supply for the facility, the Cooperative may, at its sole discretion, waive the application fee.

c) Prior to review of the application and DG plan by the Cooperative, the Member shall pay an application fee as indicated below. A separate fee must be submitted for each DG facility.

DG Size (Connected Load)	Application Fee	Additional Engineering Fee	
< 10 kW		None	
10 kW to 50 kW	\$ 50	As Required	
> 250 KW	Not covered by this manual		

III. COOPERATIVE AND POWER SUPPLIER REVIEW PROCESS

1) Plan Review Process

- a) The Cooperative and its Power Supplier, if requested by the Cooperative, will review the application and accompanying documents, plans, specifications, and other information provided and will return an interconnection analysis to the Member within 60 days of receipt of final plans and specifications.
- b) Technical review will be consistent with guidelines established by the most recent *IEEE Standard 1547 Guide for Distributed Generation Interconnection.* The Member may be required by the Cooperative to provide proof that their DG Facilities have been tested and certified by applicable IEEE guidelines.
- c) If corrections or changes to the plans, specifications and other information are to be made by the Member, the 60 day period may be reinitialized when such changes or corrections are provided to the Cooperative. In addition, any changes to the site or project requiring new analysis by the Cooperative may require additional cost and a new DG plan. The cost will be determined by the Cooperative and shall be paid by the Member.
- d) The Member acknowledges and agrees that any review or acceptance of such plans, specifications and other information by the Cooperative and/or its Power Supplier shall not impose any liability on the Cooperative and/or its Power Supplier and does not guarantee the adequacy of the Member's equipment or DG facility to perform its intended function. The Cooperative and its Power Supplier disclaim any expertise or special knowledge relating to the design or performance of generating installations and does not warrant the efficiency, costeffectiveness, safety, durability, or reliability of such DG installations.
- e) In the event it is necessary at the time of initial interconnection or at some future time for the Cooperative and/or its Power Supplier to modify electric delivery systems in order to serve the Member's DG facilities and/or purchase or continue to purchase the output of the Member's DG facilities, or because the quality of the power provided by the Member's DG adversely affects the Cooperative's and/or its Power Supplier's delivery system, the Member will be responsible to pay the Cooperative and/or its Power Supplier in advance for all costs of modifications required for the interconnection of the Member's DG facilities.

IV. SALES TO AND PURCHASES FROM A DG FACILITY

1) For all DG where the Member desires to export power

- a) All DG facilities shall be billed under one of the Cooperative's existing rate tariffs.
- b) All sales of electric power and energy by the Cooperative to a Member shall be consistent with the applicable retail rate schedule established by the Cooperative as if there were no DG installation at the Member's premises, including any charges in the Cooperative's DG tariff rider.
- c) The Member shall pay all rates and charges so listed.
- d) Neither the Cooperative nor its Power Supplier is under any obligation to purchase power from a NQF.
- e) If the Cooperative is obligated to provide wheeling service and the Cooperative has in place a tariff for wheeling service, a DG Member requesting such wheeling service shall pay the Cooperative for wheeling service as provided in the Cooperative's tariffs. Otherwise, wheeling service will not be provided.
- f) The Customer shall be subject to any market charges related to the Customer's DG facility, including but not limited to Scheduling, Dispatching and Energy imbalance.

2) For QF ≤ 50 kW where the Member desires to export power:

- a) For power produced in excess of on-site requirements, the Member will be compensated by netting the Member's kWh generation against the Member's kWh consumption, referred to as "net metering." The Cooperative shall bill the Member for the excess energy supplied by the Cooperative over and above the energy supplied by the Member during each billing period according to the Cooperative's applicable retail rate schedule.
- b) When the energy supplied by the Member 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 in addition to the monthly metering charge. as defined in the Cooperative's Distributed Generation Rider.
- c) The Member shall sign an approved contract for interconnection service with the Cooperative.
- d) In addition to all other charges, the Cooperative may bill the Member for any reasonable and actual costs associated with implementing, supporting, and maintaining the interconnection of a DG facility as determined by the Cooperative and appended to the Interconnection Agreement.
- e) The Cooperative may, at its sole discretion, purchase power from an NQF as described in this section.

- 3) For QF > 50 kW and < 250 KW where the Member desires to export power: (NOT CONSIDERED UNDER THIS MANUAL)
 - a) No net metering shall be used. The type of metering to be used shall be specified at the sole discretion of the Cooperative. The metering shall provide data so the Cooperative can determine each billing period the energy supplied to the Member by the Cooperative and the energy supplied to the Cooperative by the Member
 - b) At the sole discretion of the Cooperative, an approved load profile meter may be required which can be remotely read by the Cooperative through an approved communications link. Otherwise, the meter shall be read monthly by Cooperative personnel and the Member shall be billed for the additional cost of reading the meter.
 - c) The Cooperative shall bill the Member for the full energy used by the Member during each billing period according to the Cooperative's applicable retail rate schedule
 - d) In addition to all other charges, the Cooperative may add an additional monthly customer charge for Members with DG facilities to recover any additional billing, meter reading and/or customer service costs.
 - e) The Cooperative shall pay the Member on a monthly basis for the energy supplied by the Member to the Cooperative. The rate paid by the Cooperative to the Member shall be the Cooperative's avoided wholesale power cost as defined in the Cooperative's Distributed Generation Rider.
 - f) The Member shall sign an approved Agreement for Interconnection of Distributed Generation with the Cooperative.
 - g) In addition to all other charges, the Cooperative may bill the Member for any reasonable and actual costs associated with implementing, supporting, and maintaining the interconnection of a DG facility as determined by the Cooperative and appended to the Interconnection Agreement.
 - h) The Cooperative may, at its sole discretion, purchase power from a NQF as described in this section.
- 4) The Cooperative shall not be required to make any purchases that will cause the Cooperative to no longer be in compliance with any applicable contracts or all-power contract requirements with its power supplier(s).

V. MEMBER'S RESPONSIBILITY PRIOR TO OPERATION

- 1) Line Extension and Modifications to Cooperative Facilities
 - a) As a part of the interconnection analysis performed by the Cooperative, the Member will be provided with an estimate of any line extension or other cost to be incurred in providing electric delivery service to the Member's DG facility.
 - b) Notwithstanding the Cooperative's line extension policy, the Member 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 and/or its Power supplier, is required to serve the Member's DG facility.
 - c) In the event it is necessary at the time of initial interconnection or at some future time for the Cooperative and/or its Power Supplier to modify electric delivery

systems in order to serve the Member's DG facilities and/or purchase or continue to purchase the Member's output, or because the quality of the power provided by the Member's DG adversely affects the Cooperative and/or its Power Supplier's delivery system, the Member will reimburse the Cooperative and/or its Power Supplier for all reasonable costs of modifications required for the interconnection of the Member's DG facilities.

- d) In the event the Cooperative at any time in the future changes primary voltage of facilities serving the DG facility such that metering equipment, transformers and/or any other Member-owned equipment must be changed to continue receiving service at the new primary voltage level, the full cost of the change will be borne by the Member.
- e) In all cases, the Member 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.

2) Applicable Regulations

The DG facility shall be installed and operated subject to and in accordance with the terms and conditions set forth in the Cooperative's rules, regulations, bylaws, rates and tariffs, as amended from time to time, and, if applicable, approved by the Cooperative's board of trustees, which are incorporated herein by reference, and in compliance with all applicable federal, state and local laws, regulations, zoning codes, building codes, safety rules, environmental restrictions, ordinances and regulations, including without limitation, the most recent IEEE Standard 1547 Guide for Distributed Generation Interconnection, applicable ANSI standards, including ANSI C84.1 Range A, Electric Reliability Council of Texas (ERCOT) Independent System Operator (ISO) directives and ERCOT guidelines, and in accordance with industry standard prudent engineering practices.

3) Liability Insurance

- a) Facilities 10 kW and smaller
 - (1) Prior to interconnection, the Member must provide proof of adequate insurance. (\$1,000,000 per occurrence).
 - (2) The amount of the insurance may be increased at the sole discretion of the Cooperative if the nature of the project so requires.
 - (3) The insurance policy will not be changed or canceled during its term without thirty days written notice to the Cooperative.
 - (4) The Member shall provide proof of such insurance to the Cooperative upon request.

b) Facilities larger than 10 kW and less 50 KW

(1) Prior to interconnection, the Member must provide a certificate of insurance showing satisfactory liability insurance including contractual liability insurance covering indemnity agreements which insures the Member against all claims for property damage and for personal injury or death arising out of, resulting from or in any manner connected with the

- installation, operation and maintenance of the Member's generating equipment.
- (2) The amount of such insurance coverage shall be not less than \$1,000,000 per occurrence. The amount of such coverage and the type of insurance coverage required shall be acceptable to the Cooperative and may be amended from time to time by the Cooperative at the sole discretion of the Cooperative.
- (3) The certificate shall provide that the insurance policy will not be changed or canceled during its term without thirty days written notice to the Cooperative. The term of the insurance shall be coincident with the term of the interconnection contract or shall be specified to renew throughout the length of the interconnection contract.
- (4) The Member shall provide proof of such insurance to the Cooperative at least annually.

4) Contracts

a) Interconnection Contract

The Member will sign and deliver an Agreement for Interconnection to the Cooperative substantially in the form as shown in the COOPERATIVE AGREEMENT FOR INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION included in this Manual.

- b) Purchase Power Contract (where the Member with a QF desires to deliver power or, in the case of a Member with a NQF, the Cooperative agrees to purchase power)
 - (1) ≤ 50 kW: Net Metering: No purchase of excess generation allowed
 - (2) > 50 kW and < 250 KW: Purchase power contract required between Member Consumer and the Cooperative. (Not applicable at this time)
 - (3) > 50 KW: Not considered under this Manual.

5) Initial Interconnection

- a) Upon satisfactory completion of the review process and execution of required agreements as outlined in this Manual, the Cooperative will begin installation of the interconnection of DG facilities. The interconnection will be completed as soon as practical after completion of the review process and execution of the necessary agreements/contracts. After completion of interconnection requirements and prior to initiation of service, the Cooperative will conduct a final inspection of the facilities and interconnection to the Cooperative's system. Upon satisfactory final inspection, the Cooperative will initiate service to the Member.
- b) The Cooperative's review process and final inspection is intended as a means to safeguard the Cooperative's facilities and personnel. The Member acknowledges and agrees that any review or acceptance of such plans, specifications and other information by the Cooperative and/or its Power Supplier shall not impose any liability on the Cooperative and/or its Power Supplier and does not guarantee the adequacy of the Member's equipment or DG facility to perform its intended function. The Cooperative and its Power Supplier disclaims any expertise or special knowledge relating to the design or performance of generating

installations and does not warrant the efficiency, cost-effectiveness, safety, durability, or reliability of such DG installations.

VI. REFUSAL TO INTERCONNECT SERVICE OR DISCONNECTION OF INTERCONNECTION SERVICE

The Cooperative may, at its sole discretion, prevent the interconnection or disconnect the interconnection of DG facilities due to reasons such as safety concerns, reliability issues, power quality issues, breach of interconnection contract or any other reasonable issue. Any disconnection may be without prior notice.

VII. OPERATION OF PARALLEL FACILITY

The purpose of this section is to outline the Cooperative's operational requirements for DG facilities operated in parallel with the Cooperative's system and is not intended to be a complete listing of all operational, regulatory, safety and other requirements.

1) Ownership of facilities

- a) The Member shall own and be solely responsible for all expense, installation, maintenance and operation of all facilities, including all power generating facilities, at and beyond the point of delivery as defined in the Cooperative's tariffs.
- b) At its sole discretion, the Cooperative may locate cooperative owned metering equipment and transformers past the point of delivery.

2) Self-Protection of DG Facilities

- a) The Member will furnish, install, operate and maintain in good order and repair all equipment necessary for the safe operation of DG facilities operated in parallel with the Cooperative system.
- b) The Member's equipment will have capability to both establish and maintain synchronism with the Cooperative system and to automatically disconnect and isolate the DG facility from the Cooperative system.
- c) The Member's DG facility will be designed, installed and maintained to be self-protected from normal and abnormal conditions on the Cooperative system including, but not limited to, overvoltage, undervoltage, overcurrent, frequency deviation, and faults. Self-protection will be compatible with all applicable Cooperative protection arrangements and operating policies.
- d) Additional protective devices and/or functions may be required by the Cooperative when, in the sole judgment of the Cooperative, the particular DG facility installation and/or the Cooperative system characteristics so warrant.

3) Quality of service

- a) The Member's DG facility will generate power at the nominal voltage of the Cooperative's system at the Member's delivery point as defined by ANSI C84.1 Range A.
- b) Member's DG installation will generate power at a frequency within the tolerances as defined by IEEE 1547.
- c) Member's DG facility shall produce power at a minimum power factor of at least 95% or shall use power factor correction capacitors to ensure at least a 95% power factor.
- d) Member's DG facility shall be in accordance with the power quality limits specified in IEEE 519.
- e) The overall quality of the power provided by the Member's DG facility including, but not limited to, the effects of harmonic distortion, voltage regulation, voltage flicker, switching surges and power factor, will be such that the Cooperative system is not adversely affected in any manner.
- f) In the event that the adverse effects are caused in whole or in part by the Member's DG facility, the Member will correct the cause of such effects within 30 days, reimburse the Cooperative for required correction, or be disconnected from the Cooperative system.

4) Safety disconnect

- a) The Member shall install a visible load break disconnect switch at the Member's expense and to the Cooperative's specifications.
- b) The switch will be located so as to be readily accessible to Cooperative personnel in a location acceptable to both the Member and Cooperative.
- c) The switch shall be a type that can be secured in an open position by a lock owned by the Cooperative. If the Cooperative has locked the disconnect switch open, the Member shall not operate or close the disconnect switch.
- d) The Cooperative shall have the right to lock the switch open when, in the judgment of the Cooperative:
 - (1) It is necessary to maintain safe electrical operating and/or maintenance conditions.
 - (2) The Member's DG adversely affects the Cooperative system, or
 - (3) There is a system emergency or other abnormal operating condition warranting disconnection.
- e) The Cooperative reserves the right to operate the disconnect switch for the protection of the Cooperative system even if it affects the Member's DG facility. In the event the Cooperative opens and/or closes the disconnect switch:
 - (1) The Cooperative shall not be responsible for energization or restoration of parallel operation of the DG facility.
 - (2) The Cooperative will make reasonable efforts to notify the Member prior to opening or closing the switch.
- f) The Member will not bypass the disconnect switch at any time for any reason.

- g) Signage shall be placed by the Cooperative at the Member's expense and located at the disconnect indicating the purpose of the switch along with contact names and numbers of both the Member and the Cooperative.
- h) Members with DG facilities as defined in this Manual which are solely for the purpose of emergency backup or peak shaving without intent to export power shall not operate their DG facilities at any time unless visibly disconnected from the Cooperative system. At its sole discretion, the Cooperative may require Member to install at his/her own expense an interlocking switch for the purpose of insuring the Member's facilities do not operate in parallel with the Cooperative's facilities.
- i) Should the Cooperative lose power serving the Member's DG facilities for any reason, Members with DG facilities shall not operate their DG facilities unless visibly disconnected from the Cooperative system, or unless requested or allowed by the Cooperative.

5) Access

- a) Persons authorized by the Cooperative will have the right to enter the Member's property for purposes of testing, operating the disconnect switch, reading or testing the metering equipment, maintaining right-of-way or other DG facility equipment and/or Cooperative service requirement. Such entry onto the Member's property may be without notice.
- b) If the Member erects or maintains locked gates or other barriers, the Member will furnish the Cooperative with convenient means to circumvent the barrier for full access for the above-mentioned reasons.

6) <u>Liability for Injury and Damages</u>

- (a) The Member assumes full responsibility for electric energy furnished at and past the point of interconnection and shall indemnify the Cooperative and/or its Power Supplier against and hold the Cooperative and/or its Power Supplier harmless from all claims for both injuries to persons, including death resulting therefrom, and damages to property occurring upon the premises owned or operated by Member arising from electric power and energy delivered by the Cooperative or in any way arising directly or indirectly from the Member's DG facility.
- (b) The Cooperative and/or its Power Supplier shall not be liable for either direct or consequential damages resulting from failures, interruptions, or voltage and waveform fluctuations occasioned by causes reasonably beyond the control of the Cooperative and/or its Power Supplier including, but not limited to, acts of God or public enemy, sabotage and/or vandalism, accidents, fire, explosion, labor troubles, strikes, order of any court or judge granted in any bona fide adverse legal proceeding or action, or any order of any commission, tribunal or governmental authority having jurisdiction. ALL **PROVISIONS** NOTWITHSTANDING, IN NO EVENT SHALL THE COOPERATIVE BE LIABLE TO THE MEMBER FOR ANY INTEREST, LOSS OF ANTICIPATED REVENUE, EARNINGS, PROFITS, OR INCREASED EXPENSE OF OPERATIONS, LOSS BY REASON OF SHUTDOWN OR NON-OPERATION OF MEMBER'S PREMISES OR FACILITIES FOR ANY INDIRECT. INCIDENTAL. OR CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING OUT OF OR RELATED, IN WHOLE OR PART, TO THIS AGREEMENT. The Cooperative shall not be liable in any event for consequential damages.

b) The Member is solely responsible for insuring his/her facility complies with all applicable regulations including, but not limited to, laws, regulations, ordinances, Cooperative and Cooperative Power Supplier tariffs, policies and directives, and ERCOT rules, policies and directives.

7) <u>Metering/Monitoring</u>

- a) The Cooperative shall specify, install and own all metering equipment.
- b) Facilities ≤ 10 kW

 The facility will be net metered by one of the

The facility will be net metered by one of the following methods, at the sole discretion of the Cooperative.

- (1) Installing a single meter which runs forward and backward or
- (2) Installing two meters, each measuring the flow of energy in a single direction and netting the energy consumption between the two meters to determine the net monthly flow of energy
- c) Facilities > 10 KW and less than 50 kW
 - (1) Power transfer at the point of interconnection will be measured by metering equipment as installed and specified at the sole discretion of the Cooperative.
 - (2) Facilities will be net metered. No excess power Purchased by Cooperative.
- d) The meter shall be read at a time or times of month determined at the Cooperative's sole discretion for acquiring metering data. The Member shall provide the Cooperative an approved communications link at the Member's cost for this purpose if so requested by the Cooperative. The type of communications link and metering equipment measuring purchase of power by the Cooperative shall be installed and specified at the sole discretion of the Cooperative.
- e) The Cooperative may, at its sole discretion, require the Member to pay the Cooperative in advance for metering and monitoring equipment and installation expense.
- f) Meter testing shall follow the Cooperative's standard policy on metering testing and accuracy.
- g) At its sole discretion, the Cooperative may meter the facility at primary or secondary level.

8) Notice of Change in Installation

- a) The Member will notify the Cooperative in writing thirty (30) days in advance of making any change affecting the characteristics, performance, or protection of the DG facility.
- b) If any modification undertaken by the Member will create or has created conditions which may be unsafe or adversely affect the Cooperative system, the Member shall immediately correct such conditions or be subject to immediate disconnection from the Cooperative system.
- c) Any change in the operating characteristics of the DG facility including, but not limited to, size of generator, total facility capacity, nature of facility, fuel source, site change, hours of operation, or type used, may require a new application

process, including, but not limited to, application form, application fee, DG plan and DG plan review by the Cooperative.

9) Testing and Record Keeping

- a) The Member will test all aspects of the protection systems up to and including tripping of the generator and interconnection point at start-up and thereafter as required. Testing will verify all protective set points and relay/breaker trip timing and shall include procedures to functionally test all protective elements of the system. The Cooperative may witness the testing.
- b) The Member will maintain records of all maintenance activities, which the Cooperative may review at reasonable times.
- c) For systems greater than 250 kW, a log of generator operations shall be kept. At a minimum, the log shall include the date, generator time on, generator time off, and megawatt and megavar output. The Cooperative may review such logs at reasonable times.

10) Disconnection of Service

The Cooperative may, at its sole discretion, discontinue the interconnection of DG installations due to reasons such as safety concerns, reliability issues, power quality issues, breach of interconnection contract or any other reasonable issue.

11) Compliance With Laws, Rules and Tariffs

The DG installation owned and installed by the Member shall be installed and operated subject to and in accordance with the terms and conditions set forth in the Cooperative's rules, regulations, bylaws, rates and tariffs, as amended from time to time, and, if applicable, approved by the Cooperative's board of directors, which are incorporated herein by reference, and in compliance with all applicable federal, state and local laws, regulations, zoning codes, building codes, safety rules, environmental restrictions, ordinances and regulations, including without limitation, Electric Reliability Council of Texas (ERCOT) Independent System Operator (ISO) directives and ERCOT guidelines, and in accordance with industry standard prudent engineering practices.

COOPERATIVE AGREEMENT FOR INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION

SHORT FORM CONTRACT

This Interconnection Agreement ("Agreement") is made and entered into this day of, 20, by COLEMAN COUNTY ELECTRIC COOPERATIVE, INC. a
corporation organized under the laws of, and, and, and,
referred to individually as "Party" or both referred to collectively as the "Parties". In consideration of the mutual covenants set forth herein, the Parties agree as follows:
The provisions of the Cooperative's Distributed Generation Manual shall be considered to be a part of this contract.
This agreement provides for the safe and orderly operation of the electrical facilities interconnecting the DG Owner/Operator's facility at
and the electrical distribution facility award by the Compartive
and the electrical distribution facility owned by the Cooperative.
This Agreement does not supersede any requirements of any applicable tariffs in place between the DG Owner/Operator and the Cooperative.
1. Intent of Parties : It is the intent of the DG Owner/Operator to interconnect an electric power generator to the Cooperative's electrical distribution system.
It is the intent of the Cooperative to operate the distribution system to maintain a high level of service to their customers and to maintain a high level of power quality.
It is the intent of both parties to operate the facilities in a way that ensures the safety of the public and their employees.
3. Operating authority : The DG Owner/Operator is responsible for establishing operating procedures and standards within their organization. The operating authority for the DG Owner/Operator shall ensure that the Operator in Charge of the generator is competent in the operation of the electrical generation system and is aware of the provisions of any operating agreements and regulations relating to the safe operation of electrical power systems.
The operating authority for the DG Owner/Operator is: Name or title of operating authority Address
AddressPhone number
4. Operator in Charge : The operator in charge is the person identified by name or job title responsible for the real time operation of all electrical facilities related to the interconnection and

owned by their organization.

5. Limitation of Liability and Indemnification:

- a. Notwithstanding any other provision in this Agreement, with respect to the Cooperative's provision of electric service to DG Owner/Operator and the services provided by the Cooperative pursuant to this Agreement, Cooperative's liability to DG Owner/Operator shall be limited as set forth in the Cooperative's tariffs and terms and conditions for electric service, which are incorporated herein by reference.
- b. Neither Cooperative nor DG Owner/Operator shall be liable to the other for damages for any act or omission that is beyond such party's control, including, but not limited to, any event that is a result of an act of God, labor disturbance, act of the public enemy, war, insurrection, riot, fire, storm, flood, explosion, breakage or accident to any part of the System or to any other machinery or equipment, a curtailment, law, order, or regulation or restriction by governmental, military, or lawfully established civilian authorities.
- c. Notwithstanding Paragraph 5.b of this Agreement, the DG Owner/Operator shall assume all liability for, and shall indemnify Cooperative for, any claims, losses, costs, and expenses of any kind or character to the extent that they result from DG Owner/Operator's negligence or other wrongful conduct in connection with the design, construction or operation of the Facilities or Interconnection Facilities. Such indemnity shall include, but is not limited to, financial responsibility for (a) monetary losses; (b) reasonable costs and expenses of defending an action or claim; (c) damages related to death or injury; (d) damages to property; and (e) damages for the disruption of business. This paragraph does not create a liability on the part of the DG Owner/Operator to the Cooperative or a third person, but requires indemnification where such liability exists.
- d. Cooperative and DG Owner/Operator shall each be responsible for the safe installation, maintenance, repair and condition of their respective lines, wires, switches, or other equipment or property on their respective sides of the Point of Interconnection. The Cooperative, while retaining the right to inspect, does not assume any duty of inspecting the DG Owner/Operator's lines, wires, switches, or other equipment or property and will not be responsible therefore. DG Owner/Operator assumes all responsibility for the electric service supplied hereunder and the facilities used in connection therewith at or beyond the Point of Interconnection.
- e. For the mutual protection of the DG Owner/Operator and the Cooperative, only with Cooperative prior written authorization are the connections between the Cooperative's service wires and the DG Owner/Operator's service entrance conductors to be energized.
- Metering: Metering shall be accomplished as described in the Cooperative's DG Manual.

- 7. **Insurance:** Insurance shall be required as described in the Cooperative's DG Manual.
- 8. **Suspension of Interconnection**: It is intended that the interconnection should not compromise the Cooperative's protection or operational requirements. The operation of the DG Owner/Operator's System and the quality of electric energy supplied by the DG Owner/Operator shall meet the standards as specified by the Cooperative. If the operation of the DG Owner/Operator's system or quality of electric energy supplied (in the case of power export) does not meet the standards as specified, then (the Cooperative) will notify the DG Owner/Operator to take reasonable and expedient corrective action. The Cooperative shall have the right to disconnect the DG Owner/Operator's System, until compliance is reasonably demonstrated. Notwithstanding, the Cooperative may in its sole discretion disconnect the DG Owner/Operator's generating plant from the Distribution Facility without notice if the operating of the Generating Plant may be or may become dangerous to life and property.
- 9. **Compliance with Laws, Rules and Tariffs:** Both the Cooperative and the DG Owner/Operator shall be responsible for complying with all applicable laws, rules and regulations, including but not limited to the laws of the state of Texas, and the Cooperative's DG Manual, Tariffs, Rules and Regulations, By-Laws and other governing documents. The interconnection and services provided under this Agreement shall at all times be subject to the terms and conditions set forth in the tariff schedules and rules of the Cooperative as applicable to the electric service provided by the Cooperative, which tariffs and rules are hereby incorporated into this Agreement by this reference. The Cooperative shall have the right to publish changes in rates, classification, service or rule, with the proper notification to all DG owners/operators and Cooperative members.
- 10. **Maintenance Outages**: Maintenance outages will occasionally be required on the Cooperative's system, and the Cooperative will provide as much notice and planning as possible to minimize downtime. It is noted that in some emergency cases such notice may not be possible. Compensation will not be made for unavailability of Cooperative's facilities due to outages.
- 11. **Access**: Access is required by the Cooperative to the DG Owner/Operator's plant site for maintenance, operating and meter reading. The Cooperative reserves the right, but not the obligation, to inspect the DG Owner/Operator's facilities.
- 12. **Force Majeure:** For the purposes of this Agreement, a Force Majeure event is any event: (a) that is beyond the reasonable control of the affected party; and (b) that the affected party is unable to prevent or provide against by exercising reasonable diligence, including the following events or circumstances, but only to the extent that they satisfy the preceding requirements: acts of war, public disorder, rebellion or insurrection; floods, hurricanes, earthquakes, lighting, storms or other natural calamities; explosions or fires; strikes, work stoppages or labor disputes; embargoes; and sabotage. If a Force Majeure event prevents a party from fulfilling any obligations under this agreement, such party will promptly notify the other party in writing and will keep the other party informed on a continuing basis as to the scope and duration of the Force Majeure event. The affected party will specify the circumstances of the Force Majeure event, its expected duration and the steps that the affected party is taking to mitigate the effect of the event on its performance. The affected party will be entitled to suspend or modify its performance of obligations under this Agreement but will use reasonable efforts to resume its performance as soon as possible.
- 13. **Term**: This document is intended to be valid for a period of two (2) years. It may be canceled by either party with 30 days notice to the other party.

AGREED TO BY	
DG Owner/Operator	Cooperative
Name	Name
Title	Title
Date	Date

COOPERATIVE AGREEMENT FOR INTERCONNECTION AND PARALLEL OPERATION OF DISTRIBUTED GENERATION

LONG FORM CONTRACT

	This Interconnection Agreement ("Agreement") is made and entered into this c	lay
of	, 20, by Coleman County Electric Cooperative, Inc. a	
corpora	ation organized under the laws of, a	nd
	("DG Owner/Operator"), each hereinafter sometim	nes
	ed to individually as "Party" or both referred to collectively as the "Parties." eration of the mutual covenants set forth herein, the Parties agree as follows:	In
Cooper Exhibit	ope of Agreement This Agreement is applicable to conditions under which trative and the DG Owner/Operator agree that one or more generating facilities (described A) owned by the DG Owner/Operator of kW or less, to be interconnected kV or less ("Facilities") may be interconnected to the Cooperative's electric powntion system ("System").	in at

The provisions of the Cooperative's Distributed Generation Manual shall be considered to be a part of this contract.

- 2. **Establishment of Point of Interconnection -** The point where the electric energy first leaves the wires or facilities owned by the Cooperative and enters the wires or facilities provided by DG Owner/Operator is the "Point of Interconnection." Cooperative and DG Owner/Operator agree to interconnect the Facilities at the Point of Interconnection in accordance with the Cooperative's Rules and Regulations and DG Manual relating to interconnection of Distributed Generation (the "Rules") and as described in the attached Exhibit A. The interconnection equipment installed by the customer ("Interconnection Facilities") shall be in accordance with the Rules as well.
- 3. Responsibilities of Cooperative and DG Owner/Operator for Installation, Operation and Maintenance of Facilities DG Owner/Operator will, at its own cost and expense, operate, maintain, repair, and inspect, and shall be fully responsible for, its Facilities, unless otherwise specified on Exhibit A. DG Owner/Operator shall conduct operations of its Facilities in compliance with all aspects of the Rules, and Cooperative shall conduct operations of its electric distribution facilities in compliance with all aspects of the Rules, or as further described and mutually agreed to in the applicable Facilities Schedule. Maintenance of Interconnection Facilities shall be performed in accordance with the applicable manufacturers' recommended maintenance schedule. The DG Owner/Operator agrees to cause its Interconnection Facilities to be constructed in accordance with specifications equal to or better than those provided by the National Electrical Safety Code and the National Electrical Code, both codes approved by the American National Standards Institute, in effect at the time of construction.

The DG Owner/Operator covenants and agrees to cause the design, installation, maintenance, and operation of, its Interconnection Facilities so as to reasonably minimize the likelihood of a malfunction or other disturbance, damaging or otherwise affecting or impairing the System. DG Owner/Operator shall comply with all applicable laws, regulations, zoning codes, building codes, safety rules and environmental restrictions applicable to the design, installation and operation of its Facilities.

Cooperative will notify DG Owner/Operator if there is evidence that the Facilities' operation causes disruption or deterioration of service to other customer(s) served from the System or if the Facilities' operation causes damage to the System. DG Owner/Operator will notify the

Cooperative of any emergency or hazardous condition or occurrence with the DG Owner/Operator's Facilities, which could affect safe operation of the System.

4. **Operator in Charge -** The Cooperative and the DG Owner/Operator shall each identify an individual (by name or title) who will perform as "Operator in Charge" of the facilities and their section of the Interconnection Facilities. This individual must be familiar with this Agreement as well as provisions of other agreements and any regulations that may apply.

5. Limitation of Liability and Indemnification

- a. Notwithstanding any other provision in this Agreement, with respect to the Cooperative's provision of electric service to DG Owner/Operator and the services provided by the Cooperative pursuant to this Agreement, Cooperative's liability to DG Owner/Operator shall be limited as set forth in the Cooperative's tariffs and terms and conditions for electric service, which are incorporated herein by reference.
- b. Neither Cooperative nor DG Owner/Operator shall be liable to the other for damages for any act or omission that is beyond such party's control, including, but not limited to, any event that is a result of an act of God, labor disturbance, act of the public enemy, war, insurrection, riot, fire, storm, flood, explosion, breakage or accident to any part of the System or to any other machinery or equipment, a curtailment, law, order, or regulation or restriction by governmental, military, or lawfully established civilian authorities.
- c. Notwithstanding Paragraph 5.b of this Agreement, the DG Owner/Operator shall assume all liability for, and shall indemnify Cooperative for, any claims, losses, costs, and expenses of any kind or character to the extent that they result from DG Owner/Operator's negligence or other wrongful conduct in connection with the design, construction or operation of the Facilities or Interconnection Facilities. Such indemnity shall include, but is not limited to, financial responsibility for (a) monetary losses; (b) reasonable costs and expenses of defending an action or claim; (c) damages related to death or injury; (d) damages to property; and (e) damages for the disruption of business. This paragraph does not create a liability on the part of the DG Owner/Operator to the Cooperative or a third person, but requires indemnification where such liability exists.
- d. Cooperative and DG Owner/Operator shall each be responsible for the safe installation, maintenance, repair and condition of their respective lines, wires, switches, or other equipment or property on their respective sides of the Point of Interconnection. The Cooperative, while retaining the right to inspect, does not assume any duty of inspecting the DG Owner/Operator's lines, wires, switches, or other equipment or property and will not be responsible therefore. DG Owner/Operator assumes all responsibility for the electric service supplied hereunder and the facilities used in connection therewith at or beyond the Point of Interconnection.
- e. For the mutual protection of the DG Owner/Operator and the Cooperative, only with Cooperative prior written authorization are the connections between the Cooperative's service wires and the DG Owner/Operator's service entrance conductors to be energized.

- 6. **Design Reviews and Inspections -** The DG Owner/Operator shall provide to the Cooperative the following documentation and inspection results:
 - a. <u>One-Line Diagram.</u> The diagram shall include at a minimum, all major electrical equipment that is pertinent to understanding the normal and contingency operations of the DG Interconnection Facilities, including generators, switches, circuit breakers, fuses, protective relays and instrument transformers.
 - b. <u>Testing Records.</u> Testing of protection systems shall be limited to records of compliance with standard acceptance procedures and by industry standards and practices. These records shall include testing at the start of commercial operation and periodic testing thereafter.
- 7. **Right of Access, Equipment Installation, Removal & Inspection -** The Cooperative may send an employee, agent or contractor to the premises of the DG Owner/Operator at any time whether before, during or after the time the Facilities first produces energy to inspect the Interconnection Facilities, and observe the Facility's installation, commissioning (including any testing), startup, and operation.

At all times Cooperative shall have access to DG Owner/Operator's premises for any reasonable purpose in connection with the interconnection described in this Agreement, the Rules, or to provide service to its customers.

- 8. **Confidentiality of Information -** Unless compelled to disclose by judicial or administrative process, or by other provisions of law or as otherwise provided for in this Agreement, the DG Owner/Operator and the Cooperative will hold in confidence any and all documents and information furnished by the other party in connection with this Agreement.
- 9. **Prudent Operation and Maintenance Requirements -** The DG Owner/Operator shall operate and maintain its generation and interconnection facilities in accordance with industry standard prudent electrical practices. The said standards shall be those in effect at the time a DG Owner/Operator executes an interconnection agreement with the Cooperative.
- 10. **Disconnection of Unit -** DG Owner/Operator retains the option to disconnect its Facilities from the System, provided that DG Owner/Operator notifies the Cooperative of its intent to disconnect by giving the Cooperative at least thirty (30) days' prior written notice. Such disconnection shall not be a termination of the agreement unless DG Owner/Operator exercises rights under Section 13.

DG Owner/Operator shall disconnect Facilities from the System upon the effective date of any termination under Section 13.

Subject to the Rules, for routine maintenance and repairs on the System, Cooperative shall provide DG Owner/Operator with seven (7) business days' notice of service interruption.

Cooperative shall have the right to suspend service in cases where continuance of service to DG Owner/Operator will endanger persons or property. During the forced outage of the System serving DG Owner/Operator, Cooperative shall have the right to suspend service to effect repairs on the System, but the Cooperative shall use its efforts to provide the DG Owner/Operator with reasonable prior notice.

11. Metering - Metering shall be accomplished as described in the Cooperative's DG Manual.

- 12. **Insurance** Insurance shall be required as described in the Cooperative's DG Manual.
- 13. Effective Term and Termination Rights This Agreement becomes effective when executed by both Parties and shall continue in effect until terminated. This agreement may be terminated as follows: (a) DG Owner/Operator may terminate this Agreement at any time by giving the Cooperative sixty days' written notice; (b) Cooperative may terminate upon failure by the DG Owner/Operator to generate energy from the Facilities in parallel within six (6) months after completion of the interconnection; (c) either Party may terminate by giving the other Party at least thirty (30) days prior written notice that the other Party is in default of any of the terms and conditions of the Agreement or the Rules or any rate schedule, tariff, regulation, contract, or policy of the Cooperative, so long as the notice specifies the basis for termination and there is opportunity to cure the default; (d) Cooperative may terminate by giving DG Owner/Operator at least sixty (60) days notice in the event that there is a material change in an applicable law, or any requirement of the Cooperative's wholesale electric suppliers or any transmission utility, independent system operator or regional transmission organization having responsibility for the operation of any part of the System.
- 15. Compliance with Laws, Rules and Tariffs Both the Cooperative and the DG Owner/Operator shall be responsible for complying with all applicable laws, rules and regulations, including but not limited to the laws of the state of Texas, and the Cooperative's DG Manual, Tariffs, Rules and Regulations, By-Laws and other governing documents. The interconnection and services provided under this Agreement shall at all times be subject to the terms and conditions set forth in the tariff schedules and rules of the Cooperative as applicable to the electric service provided by the Cooperative, which tariffs and rules are hereby incorporated into this Agreement by this reference. The Cooperative shall have the right to publish changes in rates, classification, service or rule, with the proper notification to all DG owners/operators and Cooperative members.
- 16. **Severability** -If any portion or provision of this Agreement is held or adjudged for any reason to be invalid or illegal or unenforceable by any court of competent jurisdiction, such portion shall be deemed separate and independent, and the remainder of this Agreement shall remain in full force and effect.
- 17. **Amendment -** This Agreement may be amended only upon mutual agreement of the Parties, which amendment will not be effective until reduced to writing and executed by the Parties.
- 18. **Entirety of Agreement and Prior Agreements Superseded -** This Agreement, including the Rules and all attached Exhibits and Facilities Schedules, which are expressly made a part hereof for all purposes, constitutes the entire agreement and understanding between the Parties with regard to the interconnection of the facilities of the Parties at the Points of Interconnection expressly provided for in this Agreement. The Parties are not bound by or liable for any

statement, representation, promise, inducement, understanding, or undertaking of any kind or nature (whether written or oral) with regard to the subject matter hereof not set forth or provided for herein or in the DG Owner/Operator application, or other written information provided by the DG Owner/Operator in compliance with the Rules. It is expressly acknowledged that the Parties may have other agreements covering other services not expressly provided for herein, which agreements are unaffected by this Agreement.

- 19. Force Majeure -For the purposes of this Agreement, a Force Majeure event is any event: (a) that is beyond the reasonable control of the affected party; and (b) that the affected party is unable to prevent or provide against by exercising reasonable diligence, including the following events or circumstances, but only to the extent that they satisfy the preceding requirements: acts of war, public disorder, rebellion or insurrection; floods, hurricanes, earthquakes, lighting, storms or other natural calamities; explosions or fires; strikes, work stoppages or labor disputes; embargoes; and sabotage. If a Force Majeure event prevents a party from fulfilling any obligations under this agreement, such party will promptly notify the other party in writing and will keep the other party informed on a continuing basis as to the scope and duration of the Force Majeure event. The affected party will specify the circumstances of the Force Majeure event, its expected duration and the steps that the affected party is taking to mitigate the effect of the event on its performance. The affected party will be entitled to suspend or modify its performance of obligations under this Agreement but will use reasonable efforts to resume its performance as soon as possible.
- 20. **Assignment -** At any time during the term of this Agreement, the DG Owner/Operator may assign this Agreement to a corporation, an entity with limited liability or an individual (the "Assignee"), provided that the DG Owner/Operator obtains the consent of the Cooperative in advance of the assignment. The Cooperative's consent will be based on a determination that the Assignee is financially and technically capable to assume ownership and/or operation of the DG unit. The company or individual to which this Agreement is assigned will be responsible for the proper operation and maintenance of the unit, and will be a party to all provisions of this Agreement.
- 21. **Permits, Fees and Approvals -** The Cooperative will have responsibility for the review, approval or rejection of the DG interconnection application. The approval process is intended to ensure that the implementation of the applicant's DG project will not adversely affect the safe and reliable operation of the Cooperative's System. The fees associated with the Application are listed in the most current fee schedule issued by the Cooperative. All fees are to be submitted in the form of a Bank Cashier's check along with the Application, unless other payment terms have been approved in advance by the Cooperative.
- 22. **Notices -** Notices given under this Agreement are deemed to have been duly delivered if hand delivered or sent by United States certified mail, return receipt requested, postage prepaid, to:

(a) If to Cooperative:
(b) If to DG Owner/Operator:

The above-listed names, titles, and addresses of either Party may be changed by written notification to the other, notwithstanding Section 17.

- 23. **Invoicing and Payment -** Invoicing and payment terms for services associated with this Agreement shall be consistent with applicable Rules of the Cooperative.
- 24. Limitations (No Third-Party Beneficiaries, Waiver, etc.) This Agreement is not intended to, and does not create, rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties. This Agreement may not be assigned by the DG Owner/Operator without the prior written consent of the Cooperative as specified in Section 20. The failure of a Party to this Agreement to insist, on any occasion, upon strict performance of any provision of this Agreement will not be considered to waive the obligations, rights, or duties imposed upon the Parties.
- 25. **Headings -** The descriptive headings of the various articles and sections of this Agreement have been inserted for convenience of reference only and are to be afforded no significance in the interpretation or construction of this Agreement.
- 26. **Multiple Counterparts -** This Agreement may be executed in two or more counterparts, each of which is deemed an original but all constitute one and the same instrument.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be signed by their respective duly authorized representatives.

[COOPERATIVE NAME]	[DG OWNER/OPERATOR NAME]		
BY:	BY:		
TITLE:	TITLE:		
DATE:	DATE:		

EXHIBIT A <u>DESCRIPTION OF FACILITIES AND POINT OF INTERCONNECTION</u>

DG Owner/Operator will, at its own cost and expense, operate, maintain, repair, and inspect, and shall be fully responsible for its Facilities, unless otherwise specified on Exhibit A.

FACILITIES SCHEDULE NO.

each Point of Interconnection, if applicable]					
nt due to metering location, and other:					
Yes /					
erator:					
/Yes / No					
d (check one): / Yes /	_ No				
tached (check one): / Yes /					
[DG OWNER/OPERATOR NAME]					
BY:					
TITLE:	-				
DATE: DATE:					
	erator: /Yes /No d (check one): /Yes / [DG OWNER/OPERATOR NAME] BY:TITLE:				

COLEMAN COUNTY ELECTRIC COOPERATIVE

Application for Operation of Customer-Owned Generation

This application should be completed as soon as possible and returned to the Cooperative Customer Service representative in order to begin processing the request. See *Distributed Generation Procedures and Guidelines Manual for Members* for additional information.

INFORMATION: This application is used by the Cooperative to determine the required equipment configuration for the Customer interface. Every effort should be made to supply as much information as possible.

PART 1 OWNER/APPLICAN	T INFORMATIO	N			
Company:					
Mailing Address:					
City:	County: _	State:	·	_Zip Code:	
Phone Number:		Representative):		
PROJECT DESIG	N/ENGINEERI	NG (as applicable)			
Company:					
_					
		State:			
Phone Number:		Representative):		
ELECTRICAL CO	NTRACTOR (a	s applicable)			
Company:					
		State:		_ Zip Code:	
Phone Number:		Representative:	:		
TYPE OF GENER	ATOR (as appl	licable)			
Photovoltaic	W	/ind N	Microturbine	e	
Diesel Engine	G	Sas Engine T	urbine Oth	er	
ESTIMATED LOA	D INFORMATI	ON			
The following informatinterconnection. This purposes.	ation will be used information is no	d to help properly desig ot intended as a comn	gn the Coop nitment or c	perative custom contract for billin	er g
Total Site Load	(kW)	Total DG Output	(kW)	

Mode of Operation (check a	ıll that apply)			
Isolated	Paralleling	-	Power Export	_
DESCRIPTION OF PROPO	OSED INSTALI	_ATION A	ND OPERATION	
Give a general description of the generator.	he proposed insta	ıllation, incl	uding when you plan t	to operate
PART 2				
(Complete all applicable items	s. Copy this page	as require	ed for additional gene	rators.)
SYNCHRONOUS GENERAT				
Unit Number: Total no	umber of units wi	th listed sp	ecifications on site: _	
Manufacturer: Type: Serial Number (each): Phases: SingleThree Rated Output (for one unit): Rated Power Factor (%): Field Volts: Field An	Date of mar	nufacture:		
Phases: Single Three	R.P.M.:		Frequency (Hz):	
Rated Output (for one unit):	Kilowatt		Kilovolt-Ampe	r
Rated Power Factor (%):	Rated Voltage	(Volts)	Rated Ampe	res:
Field Volts: Field An	nps:		Notoring power (kW):	
Synchronous Reactance (X'd)):	_ % on	K	VA base
Hansieni Reaciance (A.D.		⁻/∩ ()	K	(VA base
Subtransient Reactance (X'd) Negative Sequence Reactance):	% on _	K	VA base
Negative Sequence Reactand	ce (Xs):	% on _	K	VA base
Zero Sequence Reactance (X				(VA base
Neutral Grounding Resistor (i	f applicable):			
I ₂ ² t of K (heating time constar	nt):			
Additional Information:				
INDUCTION GENERATOR D	DATA			
Rotor Resistance (Rr):	ohms St	tator Resis	tance (Rs):	ohms
Rotor Reactance (Xr):	ohms St	tator React	tance (Xs):	ohms
Magnetizing Reactance (Xm)				ohms
Design letter:	Fr	ame Size:		

Exciting Current:	Temp Rise (deg C°):	
Reactive Power Required:	Temp Rise (deg Cº): Vars (no load), Vars	(full load)
Additional Information:		
PRIME MOVER (Complete all app	plicable items)	
Unit Number: Type:	•	
Manufacturer:	Date of manufacturer: Inertia Constant:	
Serial Number:	Date of manufacturer:	
H.P. Rates: H.P. Max.:	Inertia Constant:	lbft ²
Energy Source (hydro, steam, wir	nd, etc.)	
GENERATOR TRANSFORMER	(Complete all applicable items)	
TRANSFORMER (between gener		
	Date of manufacturer:	
Manufacturer:		
Serial Number:		
High Voltage: KV Connection	on: delta wye, Neutral solidly gro	unded?
Low Voltage: KV. Connecti	ion: delta wye, Neutral solidly gro	ounded?
	% on	
Transformer Resistance (R):	% on	KVA base
Transformer Reactance (X):	% on	KVA base
Neutral Grounding Resistor (if app	olicable:	
INVERTER DATA (if applicable)		
Manufacturer:	Model:	
Rate Power Factor (%): Rate	Model: d Voltage (Volts): Rated Amperes	
Inverter Type (ferroresonant, step	, pulse-width modulation, etc.):	
Type commutation: forced		
	Single Harmonic (%)	
Maximum T	otal Harmonic (%)	
Note: Attach all available calcul	ations, test reports, and oscillograph	nic prints showing
inverter output voltage and curren		,
POWER CIRCUIT BREAKER (if a	applicable)	
Manufacturer:	Model:	
Rated Voltage (kilovolts):	Model: Rated ampacity (<i>Amp</i>	eres)
Interrupting rating (Amperes):	BIL Rating	,
Interrupting medium / insulating m	BIL Rating nedium (ex. Vacuum, gas, oil)	1
Control Voltage (Closing): (Vo	olts) AC DC	·
Control Voltage (Tripping): (V	(olts) AC DC Battery Ch	arged Capacitor
Close energy: Spring Moto	or Hydraulic Pneumatic Othe	er:
Trip energy: Spring Moto	or Hydraulic Pneumatic Othe	er:
Bushing Current Transformers:	or Hydraulic Pneumatic Other or Hydraulic Pneumatic Other (Max. ratio) Relay Accuracy Cl	ass:
Multi Ratio? No Yes:	(available taps)	

ADDITIONAL INFORMATION

In addition to the items listed above, please attach a detailed one-line diagram of the proposed facility, all applicable elementary diagrams, major equipment (generators, transformers, inverters, circuit breakers, protective relays, etc.), specifications, test reports, etc., and any other applicable drawings or documents necessary for the proper design of the interconnection.

SIGN OFF AREA

The customer agrees to provide the Cooperative with any additional information required to complete the interconnection. The customer shall operate his equipment within the guidelines set forth by the Cooperative.

ELECTRIC COOPERATIVE CONTACT FOR APPLICATION SUBMISSION AND FOR MORE INFORMATION:

Cooperative contact: Benny Mendoza
Title: Operation's Manager

Address: 3300 N. Hwy 84 Coleman, Texas 73834

Phone: 325-625-2128 Fax: 325-625-4600

COLEMAN COUNTY ELECTRIC COO	PERATIVE, INC.	Section	Sheet No.
Tariff	, i	11	29
for		Revision	Page
Electric Service			
SECTION TITLE:	DATE BOARD APPROVED		
RATE SCHEDULES Coleman County Electric Cooperative, Inc. Coleman, Texas		Inc.	
APPLICABLE TO ALL AREAS	Board Approved 8/19/2008		

205. Net Metering for Distributed Generation Facilities - 50 kW and Less

A. Application:

Applicable to Distributed Generation Facilities 50 kW or smaller of connected generation connected in parallel operation to the Cooperative's electric system in accordance with the Cooperative's service rules and regulations and the Cooperative's Distributed Generation Procedures and Guidelines Manual for Members (DG Manual).

This rate is not applicable to temporary, shared, or resale service. This is applicable to service supplied at one point of delivery.

B. Sales to Customer:

Sales to a Distributed Generation Customer shall be consistent with the applicable retail rate tariff established by the Cooperative and in use by the Customer as if there were no Distributed Generation installation.

C. Purchases from a Customer:

For power produced in excess of on-site requirements, the Customer shall be compensated by net metering. Net metering is defined as measuring the difference between the electricity supplied by the Cooperative's electric system over the operable time period.

The Cooperative shall bill the Customer for the excess of energy supplied by the Cooperative over and above the energy supplied by the Customer during each billing period according to the Cooperative's applicable retail rate schedule.

When the energy supplied by the Customer 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 in addition to the monthly DG Monthly Rate charges.

COLEMAN COUNTY ELECTRIC COO	PERATIVE, INC.	Section	Sheet No.
Tariff	·	11	30
for Electric Service		Revision	Page
SECTION TITLE:	DATE BOARD APPROVED		
RATE SCHEDULES	RATE SCHEDULES Coleman County Electric Cooperative, Inc. Coleman, Texas		nc.
APPLICABLE TO ALL AREAS	Board Approved 8/19/2008		

D. Monthly Rate:

Each billing period the Customer shall be obligated to pay the following charges in addition to all charges indicated on his/her base rate:

DG Facility 10 kW and smaller

Wholesale Standby Demand Charge @ NC

DG Facility Over 10 kW and Under 50 kW

Customer Charge @ \$40.00 per meter/month
Wholesale Standby Demand Charge @ \$13.00 per billing Standby kW

The billing standby kW shall be the wholesale supplier's standby kW for the Customer's Distributed Generation Facility less any kW credits associated with the Customer's Distributed Generation Facility by which the wholesale supplier reduces its regular wholesale billing kW to the Cooperative.

E. Meter Reading Charge:

If Cooperative personnel or agent must read the Distributed Generation Facility Customer's meter in an area in which the Cooperative reads meters remotely through radio or power line communications, the Cooperative's trip charge shall apply.

F. Facilities Charge:

As determined at the sole discretion of the Cooperative on a non-discriminatory case-by-case basis to recover any additional operation and maintenance expense caused by the Customer's facility.

G. <u>Data Access - Communications Link</u>:

At the Cooperative's sole discretion, the Cooperative may require the Customer to provide at Customer's

COLEMAN COLINEY ELECTRIC COC	DEDATIVE INC	Section	Sheet No.
COLEMAN COUNTY ELECTRIC COC Tariff	PPEKATIVE, INC.	11	31
for		Revision	Page
Electric Service			
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own expense a communications link for the Cooperative to remotely obtain meter readings at a time or times of the month as determined by the Cooperative.

H. Contracts:

An Interconnection Agreement and Contract between the Customer and the Cooperative shall be required in all cases.

I. Other Conditions of Service:

- 1. The Customer shall operate the Distributed Generation Facility in accordance with the Cooperative's Rules and Regulations and Interconnection Agreement.
- 2. The Customer shall maintain general liability insurance on the Distributed Generation Facilities in an amount not less than one million dollars (\$1,000,000).
- 3. The Customer shall name the Cooperative and Golden Spread Electric Cooperative, Inc. as Additional Insured's under the policy.
- 4. The Customer shall provide a certificate of insurance to both the Cooperative and Golden Spread Electric Cooperative, Inc.

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340. 1 Renewable Resource Facility for Energy Conservation above 10 kW to 250 kW

This tariff applies to the interconnection of generation facilities owned and operated by the Member-Consumer for the Member-Consumer's own use where the Renewable Resource Facility (ies) ("RRF") is greater than 10 kW and equal to or less than 250 kW maximum rated output, as determined by the equipment manufacturer, connected on the member-consumer's side of the Cooperative's meter and in accordance with the Cooperative's service rules and regulations. This tariff applies to wind generation, solar generation, and Bio-mass generation. Other types will be considered on a case-by-case basis.

Generating units must meet the following requirements:

- (i) Be energized by wind, sunlight, or bio-mass reaction;
- (ii) Have a Rated Capacity in the range of greater than 10 kW up to and including, but not to exceed 250 kW
- (iii) Be owned and operated by a Member-Consumer of the Cooperative for his/her/its own use;
- (iv) Be used solely to supply the Member-Consumer's electricity requirements;
- (v) BE CONNECTED ON THE MEMBER-CONSUMER'S SIDE OF THE COOPERATIVE'S METER (no connection to the Cooperative's distribution facilities is permitted); and
- (vi) Have obtained from the Cooperative an engineering analysis of the system installation an interconnection agreement signed by the Cooperative representative and the Member-Consumer, will not exceed the Cooperative's assigned limit for distributed generation, and will meet the terms called out in this tariff and subsequent agreement relative to inspection, insurance coverage, liability for the Cooperative, metering, and overall Coleman County Electric System protection.

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- (vii) Installation of such generation facility and associated equipment and line extension will be provided at no expense to the Cooperative.
- (viii) Renewable Resource generation facility shall be sized for the specific load requirements to be served

Generation may only be used to supply the Member-Consumers electricity requirements at the metering point where the generation is located, the generation facility shall be sized for the specific load requirements to be served.

Comply with Tariff

Apply for interconnection, provide an easement satisfactory to the Cooperative, and otherwise comply with the tariff of the Cooperative.

Provide Information

At least 60_days in advance of interconnection Member-Consumer shall submit a plan showing the electrical design of the generating installation including equipment for interconnection with the Cooperative's system. Member-Consumer shall also provide such additional information as may be required by the Cooperative. In the event the Member-Consumer's plan involves the use of non-standard equipment or design techniques the Cooperative may require such plan be approved by a registered professional engineer. Any review or acceptance of such plan by the Cooperative shall not impose any liability on the Cooperative and does not guarantee the adequacy of Member-Consumer's equipment to perform its intended function. The Cooperative disclaims any expertise or special knowledge relating to the design or performance of generating installations and does not warrant the efficiency, cost-effectiveness, safety, durability or reliability of generating installations.

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Net Metering

In addition to the Cooperative's billing meter Renewable Resource Generation installations greater than 10 kW and less than or equal to 250 kW will require a demand interval meter along with necessary power supply (potential transformers (PTs) and current transformers (CTs) and communication equipment that will make data available to Golden Spread Electric Cooperative. Meter must be a Revenue Quality meter with Load Profile Data (minimum 60 days with 4 channels at 15 minutes) and be MV-90 compatible.

CONTRACT

Member-Consumer must enter into a contract with the Cooperative.

Inadvertent Energy

The only load that can be netted by the renewable resource generation is load that is also located behind the Cooperative's billing meter. Depending on the magnitude of the Member-Consumer's load at the Cooperative's metering point and the amount of RRF energy available from the generation, there may be inadvertent energy flowing from the RRF into the Cooperative's distribution facilities.

Billing Periods

The applicable period during which generation from the RRF can be used to offset load is only during the Cooperative's established monthly billing cycle. Inadvertent energy generated during one billing cycle cannot be used to offset Member-Consumer load during a subsequent billing cycle.

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Point of Connection

Both the RRF generators and Member-Consumer load must be connected behind the Cooperative's billing meter. Multiple generators may be connected behind a meter , provided that the Rated Capacity does not exceed 250 kW and does not exceed the Member-Consumer's load served through the meter

INSTALLATION

The renewable resource generation facilities shall be designed and installed in accordance with applicable codes, regulations and prudent engineering practice.

The MEMBER-CONSUMER will install, operate and maintain in good order and repair all equipment necessary for the safe operation of the generation facility in parallel with the Cooperative's electric distribution system. The equipment will have the capacity to both establish and maintain synchronism with the Cooperative's system and to automatically disconnect and isolate the generation facility from the Cooperative's system in the event of an outage of the Cooperative's system or a malfunction of the generating facility.

The generation facility will be designed, installed and maintained to be self-protected from normal and abnormal conditions in the Cooperative's electrical distribution system.

The conditions for which the generating facility shall be self-protected shall include, but not be limited to, over voltage, under voltage, over current, frequency deviation, and faults.

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The Member-Consumer must provide for the installation and operation of such connection facilities, including but not limited to protective relays and switch breakers, as are necessary to preserve the safety and reliability of the Cooperative's electric system and to preserve the safety of the Cooperative's employees and the public.

Specialized protective functions may be required by the Cooperative when, in the sole judgment of the Cooperative, the particular generating facility characteristics and/or distribution system characteristics so warrant.

Safety Disconnect

A visible break disconnect will be installed at location readily accessible to Cooperative personnel. It shall be the type of switch which can be secured in an open position by a cooperative padlock. The Cooperative shall have the right to lock the switch open whenever, in the judgment of the Cooperative;

- 1. It is necessary to maintain safe electrical operating or maintenance conditions,
- 2. The generating installation adversely affects the Cooperative's electric distribution system, or
- 3. There is a system emergency or other abnormal operating condition which warrants disconnection.

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The Cooperative reserves the right to operate the disconnect switch for the protection of the Cooperative's system even if it affects Member-Consumer's generating installation. In the event the Cooperative opens and closes the disconnect switch it shall not be responsible for restoration of parallel operation of the generating installation. The Cooperative will make reasonable efforts to notify Member-Consumer in the event the disconnect switch has been operated. The Member-Consumer will not bypass the disconnect switch at any time for any reason.

Member-Consumer owned facilities will not, under any condition, result in the:

- Capacity limitations for the circuit(s) to which RRF facilities are connected to be exceeded.
- Occurrence of any operating condition or situation adverse to the reliability, including the quality and availability of power to its other member-consumers, or to the safety of its distribution facilities or to the safety of its employees or the public.
- 3. Negative flow of power at any point at which Golden Spread delivers power to the Cooperative's system (no power may flow out of Cooperative facilities into the system of the transmission provider).

Annual Inspection

Annual inspection and testing of the facility may be done by Cooperative personnel.

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<u>Insurance</u>

Member-Consumer must maintain general liability insurance for renewable resource generating facilities in an amount not less than one million dollars.

Member-Consumer will be required to provide a certificate of insurance showing both the Cooperative and Golden Spread as Additional Insures prior to initial operation of the RRF facility and at each renewal of the Member-Consumer's insurance policy.

<u>Access</u>

Persons authorized by the Cooperative will have the right to enter the Member-Consumer's property for the purpose of operating or inspecting the disconnect switch or metering. Such entry onto the Member-Consumer's property may be without notice. If the Member-Consumer erects or maintains locked gates or other barriers, the Member-Consumer will furnish the Cooperative with convenient means to circumvent the barrier for access to the disconnect switch and meter(s).