

Index No. _____

Flint Hills Rural Electric Cooperative Association, Inc.

Schedule PGRReplacing Schedule PGR

All Territory

Which was issued January 18, 2010

(Territory to which schedule is applicable)

The cooperative's bylaws, rules and regulations are supplemental to this schedule and are incorporated herein.

Sheet 1 of 4

PARALLEL GENERATION RIDER**DEFINITIONS:****Cooperative:**

The Flint Hills Rural Electric Cooperative Association, Inc., located at 1564 S 1000 Road, Council Grove, Kansas.

Customer-generator:

The Member who owns or operates a qualified electric energy generation unit (generation unit) which:

- (a) Is powered by a "Qualifying Facility" for co-generation or small power production as defined in Subpart B of the Public Utility Regulatory Policies Act of 1978 (PURPA), and 18 CFR Part 292;
- (b) Is located on a premises owned, operated, leased, or otherwise controlled by the Customer-generator;
- (c) Is interconnected and operates in parallel phase and synchronization with the Cooperative;
- (d) Is appropriately sized, as defined below, primarily to offset part of the Customer-generator's own electrical energy requirements;
- (e) Meets all applicable rules, regulations, statutes and other laws, and safety, performance, interconnection, and reliability standards established by the National Electrical Code, the National Electrical Safety Code, the Institute of Electrical and Electronics Engineers, Underwriters Laboratories, the Federal Energy Regulatory Commission, or any jurisdictional governing authorities; and
- (f) Contains a mechanism that automatically disables the unit and interrupts the flow of electricity back onto the supplier's electricity lines if service to the Customer-generator is interrupted.

Each meter connected under this Rider defines a Customer-generator. A generation unit owned or operated by a Customer-generator cannot be connected in common with any other meter or be deemed to be for the purpose of serving the load connected to any other meter. To the extent that the Customer-generator controls the generation unit, and meets the requirements and accepts all of the obligations of this Parallel Generation Rider, the Customer-generator is not required to own the generation unit.

APPROPRIATE SIZE;

The Customer-generator's generation unit shall be sized so that the sum of the maximum AC output capacity shall not exceed an amount as calculated with the following formula:

Divide 50% of the Customer-generator's historic electric consumption in kilowatt-hours for the previous 12-month period by 8,760 (hours/year); and divide the quotient by a capacity factor of 20% for a solar energy resource or 25% for a wind energy resource. If the Cooperative does not have adequate historic electric consumption data for the Customer-generator, the historic consumption shall be 7.15 kilowatt-hours per square foot of above-grade conditioned space.

The capacity factor for an energy resource other than solar or wind shall be a generally accepted industry standard capacity factor, as determined by the Cooperative, for the specific energy resource being utilized.

PEAK LOAD: The one-hour maximum annual demand imposed by the Cooperative's retail load in the state.

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Month Day Year

By


Signature of Officer

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LIMITED AVAILABILITY:

Service is available to Customer-generators under this rider at points on the Cooperative's existing electric distribution system, located within its service area. This rider is available to Customer-generators on a first-come first-served basis until the sum of the generation unit nameplate AC capacity of all the Cooperative's Net Metering Rider (NMR), Parallel Generation Rider (PGR), and Parallel Generation Rider-Renewable Generation (PGR-RG) interconnections equals or exceeds five percent of the Cooperative's peak load for the previous calendar year. Each kilowatt of nameplate AC capacity of parallel generation under the above stated riders shall count as 1.10 kilowatts toward the five percent limit. Upon reaching this limit, no further service shall be available under this rider. This rider shall not be available for any electric service schedule allowing for resale. A Customer-generator shall have the option of interconnecting on a different generation rider, if otherwise eligible. However, Customer-generators may not change between generations riders without the prior approval of the Cooperative and such elections shall not be for periods less than one year. Service under this rider is not applicable to standby or resale electric service.

APPLICABILITY:

This rider is applicable to Customer-generators with a Cooperative-approved interconnection agreement. This schedule is not applicable where the generation unit nameplate AC capacity of the Customer's generation unit exceeds 200 kW (commercial accounts) and 25 kW (residential accounts).

CHARACTER OF SERVICE:

Alternating current, 60 cycles, at the voltage and phase of the Cooperative's established secondary distribution system immediately adjacent to the service location.

BILLING AND PAYMENT:

The Cooperative shall render a bill for consumption at approximately 30-day intervals during the Cooperative's normal billing interval. Billing by the Cooperative to the Customer-generator shall be in accordance with the applicable rate schedule.

For electrical energy delivered by the Customer-generator to the Cooperative from the Customer generator's generation unit the Cooperative shall pay one hundred percent (100%) of the Cooperative's monthly system average cost of energy per kilowatt hour received. Any such amount shall be paid at least annually or when such amount is \$25 or more.

TERMS AND CONDITIONS:

1. **Metering.** The Cooperative will supply, own, and maintain at its expense all necessary meters and associated equipment utilized for billing, but may charge the Customer-generator for the cost of any additional metering necessary to accommodate the Customer-generator's generation unit. The Customer-generator shall supply, at no expense to the Cooperative, a suitable location for meters and associated equipment. Such equipment shall always be accessible to utility personnel. The Customer-generator shall reimburse the Cooperative for the cost of any additional distribution facilities necessary to accommodate the Customer-generators generation unit.

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2. **Export Limit.** The Cooperative shall have the right to require the Customer-generator, at certain times and as electric operating conditions warrant, to limit the production of electrical energy from the generation unit to an amount no greater than the load at the Customer-generator's generation unit of which the generation unit is a part.
3. **Protective Equipment.** The Customer-generator shall furnish, install, operate, and maintain in good order and repair without cost to the Cooperative such relays, locks and seals, breakers, automatic synchronizers, disconnecting devices, and other control and protective devices as shall be designated by the Cooperative as being required as suitable for the operation of the generation unit in parallel with the Cooperative's system.
4. **Manual Disconnect.** The Customer-generator shall install and maintain a visible, manual disconnect switch within six (6) feet of Customer-generator's billing meter. This manual switch must have the capability to be locked out by Cooperative personnel to isolate the Cooperative's facilities in the event of an electrical outage on the Cooperative's transmission and distribution facilities serving the Customer-generator. This isolating device shall also serve as a means of isolation for the Customer-generator's equipment during any Customer-generator maintenance activities, routine outages, or emergencies. The Cooperative shall give notice to the Customer-generator before a manual switch is locked or an isolating device used, if possible; and otherwise, shall give notice as soon as practicable after locking or isolating the Customer-generator's facilities.
5. **System Upgrades.** The Customer-generator may be required to reimburse the Cooperative for any equipment, facilities, protective equipment, or upgrades necessary to accommodate the installation by the Customer-generator of a generation unit in parallel with the Cooperative's system.
6. **Initial Energizing.** The Customer-generator shall notify the Cooperative prior to the initial energizing and start-up testing of the Customer-generator's generation unit, and the Cooperative shall have the right to have a representative present at said test (witness test) to measure or verify settings, operational condition, or other requirements or system aspects.
7. **Power Quality.** If harmonics, voltage fluctuations, or other disruptive problems on the Cooperative's system are directly attributable to the operation of the Customer-generator's generation unit, such problem(s) shall be corrected at the Customer-generator's expense.
8. **Indemnification.** Customer-generator's generation unit shall not damage the Cooperative's system or equipment or present an undue hazard to Cooperative personnel. The Cooperative shall not be liable directly or indirectly for permitting or continuing to allow an attachment of a generation-unit or for the acts or omissions of a Customer-generator that causes loss or injury, including death, to any third party. The Customer-generator agrees to hold the Cooperative harmless from injuries or property damage incurred by any person and arising out of the ownership, operation, maintenance, or use of the Customer-generator's generation unit and to indemnify the Cooperative against all liability and expense related thereto.
9. **Interconnection Agreement.** Prior to installing and interconnecting a generation unit the customer shall enter into a standard interconnection agreement with the Cooperative setting forth the conditions related to technical and safety aspects of parallel generation.
10. **Rules and Regulations.** Service under this Rider is subject to the Cooperative's Rules and Regulations as adopted by the Board of Trustees and any subsequently approved modifications that may be adopted by said Board during the term of service.
11. **Insurance.** The Customer-generator shall, at its own expense, maintain in force general liability insurance without any exclusion for liabilities related to the interconnection. The amount of such insurance shall be sufficient to insure against all reasonably foreseeable direct liabilities given the size and nature of the generation unit being

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interconnected, the interconnection itself and the characteristics of the system to which the interconnection is made. For a generation unit having a maximum nameplate generating capacity of 10 kilowatts or less, a Customer-generator whose generation unit meets the standards specified in "e" above shall not be required to install additional controls, perform or pay for additional tests or distribution equipment or purchase additional liability insurance other than such general liability insurance. For generation units having a maximum nameplate generating capability of greater than 10 kilowatts, the Board of Trustees shall: (1) Set forth safety, performance and reliability standards and insurance requirements; and (2) establish the qualifications for exemption from a requirement to install additional controls, perform or pay for additional tests or distribution equipment or purchase additional liability insurance.

12. **Application for Interconnection.** Applications by a Customer-generator for interconnection of the generation unit to the Cooperative's distribution system shall be accompanied by the plan for the Customer-generator's generation unit, including, but not limited to, a wiring diagram and specifications for the generation unit showing the configuration of all equipment, current and potential circuits, and protection and control schemes. Any diagrams or drawings shall use industry standard symbols. If the maximum AC output capacity of the generation unit exceeds 50 kilowatts, the on-line diagram must be stamped by a licensed Professional Engineer. Applications shall be reviewed and responded to by the Cooperative within 30 days after receipt for systems of 10 kilowatts or less and within 90 days after receipt for all other systems. Prior to the interconnection of the qualified generation unit to the supplier's system, the Customer-generator shall furnish the Cooperative a certification from a qualified professional electrician or engineer that the installation meets the requirements of paragraph e, above. If the application for interconnection is approved by the Cooperative and the Customer-generator does not complete the interconnection within one year after receipt of notice of the approval, the approval shall expire, and the Customer-generator shall be responsible for filing a new application. Before an approved generation unit is modified or changed, the Customer-generator shall submit a new application under this section. Upon the change in ownership of a generation unit, the new Customer-generator shall be responsible for filing a new application under this section.
13. **Renewable Energy Credits or Attributes.** Ownership of all renewable energy credits, greenhouse gas emission credits and any other renewable energy attributes related to any electric energy produced by an eligible generation unit shall be retained by the Customer-generator.

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