

Pioneer Electric Cooperative, Inc.
 (Name of Issuing Utility)

Schedule: 20-PGS-QF

Entire Territory Served
 (Territory to which schedule is applicable)

Replacing Schedule 15-PGS-QF Sheet 1-4
 Which was filed December 1, 2015

No supplement or separate understanding shall modify the tariff as shown hereon.

Sheet 1 of 4 Sheets

PARALLEL GENERATION RIDER – QUALIFYING FACILITY

AVAILABILITY

Service is available under this Parallel Generation Rider – Qualifying Facility (“Rider”) at points on the Cooperative’s existing electric distribution system, located within its service area, for Parallel Generation Service Customers (“PGS Customers”) operating Qualifying Facilities (both renewable and non-renewable). Service under this Rider is not applicable to standby or resale electric service.

APPLICABILITY

This Rider is applicable to PGS Customer-generators with a properly completed, signed and approved Cooperative interconnection agreement and that is taking service under the Cooperative’s normal retail rate schedules. This Rider is applicable where the nameplate capability of the PGS Customer’s electrical generating system is appropriately sized and exceeds 200 kW.

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

Unless indicated otherwise, the Cooperative shall render a bill for consumption at approximately 30-day intervals during the Cooperative’s normal billing process. Billing by the Cooperative to the PGS Customer shall be in accordance with the applicable retail rate schedule.

For electrical energy generated that exceeds the PGS Customer’s instantaneous load and delivered by the PGS Customer to the Cooperative from the PGS Customer’s Qualifying Facility, the Cooperative shall pay 100% of the Cooperative’s monthly system average cost of energy per kilowatt hour as billed to the Cooperative under the Cooperative’s wholesale power supplier’s Energy Cost Adjustment (ECA) filing for the period(s) in which energy was delivered to the Cooperative. At Cooperative’s discretion, such amount shall be credited to PGS Customer’s account or paid at least annually.

Any electric energy generated that exceeds the PGS Customer’s instantaneous load and delivered by the PGS Customer to the Cooperative from the Qualifying Facilities in excess of the appropriate generator sizing (load), the Cooperative may, at its sole option, pay 100% of the Cooperative’s monthly system average cost of energy per kilowatt hour as billed to the Cooperative under the Cooperative’s wholesale power supplier’s Energy Cost Adjustment (ECA) filing for the period(s) in which energy was delivered to the Cooperative. At Cooperative’s discretion, such amount shall be credited to PGS Customer’s account or paid at least annually.

Effective August 26 2020
 Month Day Year

By [Signature] CEO
 Signature of Officer Title

Attested John R. Jury
 Pioneer Electric Board of Trustees

By [Signature] Secretary

Pioneer Electric Cooperative, Inc.
(Name of Issuing Utility)

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Sheet 2 of 4 Sheets

DEFINITIONS

PGS Customer-generator:

The owner or operator of a qualified electric energy 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 PGS Customer-generator;
- (c) Is interconnected and operates in parallel phase and synchronization with the Cooperative;
- (d) Is appropriately sized for the PGS Customer-generator's anticipated electric load;
- (e) Meets all applicable 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, and any local governing authorities; and
- (f) Contains a mechanism that automatically disables the unit and interrupts the flow of electricity back onto the Cooperative's electric lines in the event that service to the PGS Customer-generator is interrupted.

Each meter connected under this Rider defines a PGS Customer-generator. A generator owned or operated by a PGS 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 PGS Customer-generator controls the Qualifying Facility and meets the requirements and accepts all of the obligations of this Rider, the PGS Customer-generator is not required to own the generating facilities.

TERMS AND CONDITIONS

1. The Cooperative will supply, own and maintain at its expense all necessary meters and associated equipment utilized for billing. In addition, and for purposes of monitoring PGS Customer generation and load, the Cooperative may install load research metering at its expense. The PGS Customer shall supply, at no expense to the Cooperative, a suitable location for meters and associated equipment used for billing and for load research. Such equipment shall be accessible at all times to utility personnel.
2. The Cooperative shall have the right to require the PGS Customer, at certain times and as electric operating conditions warrant, to limit the production of electrical energy from the generating facility to an amount no greater than the load at the PGS Customer's facility of which the generating facility is a part.

Effective August 26 2020
Month Day Year

By  CEO
Signature of Officer Title

Attested John R. Jury
Pioneer Electric Board of Trustees

By  Secretary

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3. The PGS Customer 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 generator in parallel with the Cooperative's system.
4. The PGS Customer shall install and maintain a visible, manual disconnect switch. 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 PGS Customer. This isolating device shall also serve as a means of isolation for the PGS Customer's equipment during any PGS Customer maintenance activities, routine outages or emergencies. The Cooperative shall give notice to the PGS Customer 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 PGS Customer's facilities.
5. The PGS Customer shall reimburse the Cooperative for any equipment, facilities, protective equipment or upgrades required solely as a result of the installation by the PGS Customer of generation in parallel with the Cooperative's system.
6. The PGS Customer shall notify the Cooperative prior to the initial energizing and start-up testing of the PGS Customer-owned generator, and the Cooperative shall have the right to have a representative present at said test.
7. If harmonics, voltage fluctuations, or other disruptive problems on the Cooperative's system are directly attributable to the operation of the PGS Customer's system, such problem(s) shall be corrected at the PGS Customer's expense.
8. No PGS Customer's generating system shall 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 Qualifying Facility or for the acts or omissions of a PGS Customer-generator that cause loss or injury, including death, to any third party. The PGS Customer-generator agrees to hold the Cooperative harmless from injury or property damage incurred by any person and arising out of the ownership, operation, maintenance, or use of the parallel generation facility and to indemnify the Cooperative against all liability and expense related thereto.

Effective August 26 2020
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By [Signature] CEO
Signature of Officer Title

Attested John R. Jury
Pioneer Electric Board of Trustees

By [Signature] Secretary

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- 9. Prior to installing and interconnecting a Qualifying Facility the PGS Customer shall enter into a standard interconnection contract with the Cooperative setting forth the conditions related to technical and safety aspects of parallel generation.
- 10. Service under this Rider is subject to the Cooperative's Parallel Generation Interconnection Regulations found in the Cooperative's approved rules and regulations and subsequent modifications thereto.
- 11. The PGS 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 generating equipment being interconnected, the interconnection itself and the characteristics of the system to which the interconnection is made, and in no event may be less than specified in the Cooperative's Parallel Generation Interconnection Regulations found in the Cooperative's approved rules and regulations.
- 12. Applications by a PGS Customer-generator for interconnection of the qualified generation unit to the distribution system shall be accompanied by the plan for the PGS Customer-generator's electrical generating system, including, but not limited to, a wiring diagram and specifications for the generating unit, and 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 PGS Customer-generator shall furnish the Cooperative a certification from a qualified professional electrician or engineer that the installation meets the requirements of Cooperative's Parallel Generation Interconnection Regulations found in the Cooperative's approved rules and regulations. If the application for interconnection is approved by the Cooperative and the PGS Customer-generator does not complete the interconnection within one year after receipt of notice of the approval, the approval shall expire and the PGS Customer-generator shall be responsible for filing a new application. Upon the change in ownership of a qualified Renewable Energy Resource, the new PGS Customer-generator shall be responsible for filing a new application under this section.

Effective August 26 2020
Month Day Year

By [Signature] CEO
Signature of Officer Title

Attested John R. Jury
Pioneer Electric Board of Trustees

By [Signature] Secretary

Pioneer Electric Cooperative, Inc.
 (Name of Issuing Utility)

Schedule: 20-PGS-R

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 Which was filed December 1, 2015

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PARALLEL GENERATION RIDER – RENEWABLE

AVAILABILITY

Service is available under this Parallel Generation Rider – Renewable (“Rider”) at points on the Cooperative's existing electric distribution system, located within its service area, for Parallel Generation Service Customers (“PGS Customers”) operating Renewable Energy Resources. The service is available to PGS Customer-generators on a first-come, first-served basis until the total rated generating capability of all interconnections under this Rider equals or exceeds four percent of the Cooperative’s peak load for the previous calendar year. Upon reaching this limit, no further service shall be available for that calendar year. This Rider shall not be available for any electric service schedule allowing for resale. A qualifying PGS Customer-generator shall have the alternative option of interconnecting renewable generation under the Cooperative's Net Metering Rider. However, renewable PGS Customer-generators may not change between the Net Metering and Parallel Generation – Renewable Riders without the prior approval of the Cooperative, and such elections shall not be for periods less than one year.

APPLICABILITY

This Rider is applicable to PGS Customer-generators with a properly completed, signed and approved Cooperative interconnection agreement and that are taking service under the Cooperative's normal retail rate schedules. This Rider is not applicable where the nameplate capability of the PGS Customer's electrical generating system exceeds the lesser of the PGS Customers appropriately sized electric load or 25 kilowatts (kW) for residential PGS Customers or 200 kW for commercial PGS Customers.

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

Unless indicated otherwise, the Cooperative shall render a bill for consumption at approximately 30-day intervals during the Cooperative's normal billing process. Billing by the Cooperative to the PGS Customer shall be in accordance with the applicable retail rate schedule.

For electrical energy generated that exceeds the PGS Customer's instantaneous load and delivered by the PGS Customer to the Cooperative from the Renewable Energy Resource, the Cooperative shall pay 150% of the Cooperative's monthly system average cost of energy per kilowatt hour as billed to the Cooperative under the Cooperative's wholesale power supplier's Energy Cost Adjustment (ECA) filing for the period(s) in which energy was delivered to the Cooperative. At Cooperative's discretion, such amount shall be credited to PGS Customer's account or paid at least annually.

Effective <u>August 26 2020</u> Month Day Year By <u></u> <u>CEO</u> Signature of Officer Title	Attested <u>John R. Jury</u> Pioneer Electric Board of Trustees By <u></u> Secretary
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Pioneer Electric Cooperative, Inc.
 (Name of Issuing Utility)

Schedule: 20-PGS-R

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Any electric energy generated that exceeds the PGS Customer's instantaneous load and delivered by the PGS Customer to the Cooperative from the Renewable Energy Resource in excess of the appropriate generator sizing (load), and not subject to this Rider, the Cooperative may, at its sole option, pay 100% of the Cooperative's monthly system average cost of energy per kilowatt hour as billed to the Cooperative under the Cooperative's wholesale power supplier's Energy Cost Adjustment (ECA) filing for the period(s) in which energy was delivered to the Cooperative. At Cooperative's discretion, such amount shall be credited to PGS Customer's account or paid at least annually.

DEFINITIONS

PGS Customer-generator:

The owner or operator of a qualified electric energy generation unit which:

- (a) Is powered by a Renewable Energy Resource as defined by Kansas state statutes (see definition below);
- (b) Has an electrical generating capacity of 25 kW or less for residential PGS customers or 200 kW or less for commercial PGS customers;
- (c) Is located on a premises owned, operated, leased, or otherwise controlled by the PGS Customer-generator;
- (d) Is interconnected and operates in parallel phase and synchronization with the Cooperative;
- (e) Is appropriately sized for the PGS Customer-generator's anticipated electric load;
- (f) Meets all applicable 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, and any local governing authorities; and
- (g) Contains a mechanism that automatically disables the unit and interrupts the flow of electricity back onto the Cooperative's electric lines in the event that service to the PGS Customer-generator is interrupted.

Each meter connected under this Rider defines a PGS Customer-generator. A generator owned or operated by a PGS 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 PGS Customer-generator controls the Renewable Energy Resources and meets the requirements and accepts all of the obligations of this Rider, the PGS Customer-generator is not required to own the generating facilities.

Renewable Energy Resources:

Electrical energy produced from an energy resource or technologies defined as renewable in K.S.A. 17-4652, and amendments thereto, and energy produced from municipal or other solid waste and animal waste.

Peak load:

The one-hour maximum annual demand imposed by the Cooperative's retail load applicable to the territory to which this Rider is applicable.

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By [Signature] CEO
 Signature of Officer Title

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By [Signature] Secretary

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TERMS AND CONDITIONS

1. The Cooperative will supply, own and maintain at its expense all necessary meters and associated equipment utilized for billing. In addition, and for purposes of monitoring PGS Customer generation and load, the Cooperative may install load research metering at its expense. The PGS Customer shall supply, at no expense to the Cooperative, a suitable location for meters and associated equipment used for billing and for load research. Such equipment shall be accessible at all times to Cooperative personnel.
2. The Cooperative shall have the right to require the PGS Customer, at certain times and as electric operating conditions warrant, to limit the production of electrical energy from the generating facility to an amount no greater than the load at the PGS Customer's facility of which the generating facility is a part.
3. The PGS Customer 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 generator in parallel with the Cooperative's system.
4. The PGS Customer shall install and maintain a visible, manual disconnect switch. 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. This isolating device shall also serve as a means of isolation for the PGS Customer's equipment during any PGS Customer maintenance activities, routine outages or emergencies. The Cooperative shall give notice to the PGS Customer 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 PGS Customer's facilities.
5. The PGS Customer shall reimburse the Cooperative for any equipment, facilities, protective equipment or upgrades required solely as a result of the installation by the PGS Customer of generation in parallel with the Cooperative's system.
6. The PGS Customer shall notify the Cooperative prior to the initial energizing and start-up testing of the PGS Customer-owned generator, and the Cooperative shall have the right to have a representative present at said test.
7. If harmonics, voltage fluctuations, or other disruptive problems on the Cooperative's system are directly attributable to the operation of the PGS Customer's system, such problem(s) shall be corrected at the PGS Customer's expense.

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8. No PGS Customer's generating system shall 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 PGS Customer-generator facility or for the acts or omissions of a PGS Customer-generator that cause loss or injury, including death, to any third party. The PGS Customer-generator agrees to hold the Cooperative harmless from injury or property damage incurred by any person and arising out of the ownership, operation, maintenance, or use of the parallel generation facility and to indemnify the Cooperative against all liability and expense related thereto.
9. Prior to installing and interconnecting a Renewable Energy Resource the PGS Customer shall enter into a standard interconnection contract with the Cooperative setting forth the conditions related to technical and safety aspects of parallel generation.
10. Service under this Rider is subject to the Cooperative's Parallel Generation Interconnection Regulations found in the Cooperative's approved rules and regulations and subsequent modifications thereto.
11. The PGS 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 generating equipment being interconnected, the interconnection itself and the characteristics of the system to which the interconnection is made. For Renewable Energy Resource systems having a maximum nameplate generating capability of 10 kW or less, a PGS Customer-generator whose system meets the standards specified in Cooperative's Parallel Generation Interconnection Regulations found in the Cooperative's approved rules and regulations 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 Renewable Energy Resource systems having a maximum nameplate generating capability of greater than 10 kW, the Cooperative's Parallel Generation Interconnection Regulations found in the Cooperative's approved rules and regulations 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.

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 Signature of Officer Title

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12. Applications by a PGS Customer-generator for interconnection of the qualified generation unit to the distribution system shall be accompanied by the plan for the PGS Customer-generator's electrical generating system, including, but not limited to, a wiring diagram and specifications for the generating unit, and 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 Cooperative's system, the PGS Customer-generator shall furnish the Cooperative a certification from a qualified professional electrician or engineer that the installation meets the requirements of Cooperative's Parallel Generation Interconnection Regulations found in the Cooperative's approved rules and regulations. If the application for interconnection is approved by the Cooperative and the PGS Customer-generator does not complete the interconnection within one year after receipt of notice of the approval, the approval shall expire and the PGS Customer-generator shall be responsible for filing a new application. Upon the change in ownership of a qualified Renewable Energy Resource, the new PGS Customer-generator shall be responsible for filing a new application under this section.

13. Ownership of all renewable energy credits, greenhouse gas emission credits and any other renewable energy attributes related to any electricity produced by the eligible renewable energy resource shall be retained by the PGS Customer-generator.

Effective August 26 2020
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By [Signature] CEO
 Signature of Officer Title

Attested John R. Jury
 Pioneer Electric Board of Trustees

By [Signature] Secretary