

SMALL SCALE RENEWABLE DISTRIBUTED GENERATION

SCHEDULE RD  
(Rate Title Or Number)

Company  
Rate Code

APPLICABILITY

For service to customer-generators where a part or all of the electrical requirements of the customer-generator can be supplied from a solar, wind, biomass or hydropower generating facility with a generating capacity of not more than 25 kilowatts. The generating system must be located on premises that are owned or controlled by the customer-generator, and it must also be connected in parallel with the local distribution system of the Cooperative. The system must be intended to offset part or all of the customer-generator's electrical requirements for electrical energy at the same location, and it must not be used to offset electric consumption at another location.

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AVAILABILITY

To customer-generators described above who receive service from the Cooperative under any rate schedule other than Residential Time of Use, Large Power, and Large Power Coincident Demand Services. This Schedule will be available to customer-generators on a first-come, first-served basis until the rated generating capacity owned and operated by eligible customer-generators in the Cooperative's service territory reaches 1% of the Cooperative's aggregate customer peak demand, at which time the Cooperative may elect not to offer this schedule to additional customer-generators.

SERVICE CONDITIONS:

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.

Advice Letter No. \_\_\_\_\_

*Neale E. Stephens*  
Signature of Issuing Officer

Issue Date

07/20/03

Decision or

Board Action

Authority No.

06/19/03

General Manager

Title

Effective Date

09/01/03

**Empire Electric Association, Inc.**

Name of Utility

Original

Cancels \_\_\_\_\_

Utah PSC No. 3

Sheet No. 14B

Sheet No. \_\_\_\_\_

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1. The customer-generator shall comply with applicable Federal, state and local laws, ordinances and regulations applicable to power generating installations.

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2. At least sixty (60) days in advance of interconnection customer-generator shall submit a plan showing the electrical design of the generating installation including equipment for interconnection with the Cooperative's system. Customer-generator shall also provide such additional information as may be required by the Cooperative.

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3. The customer-generator is responsible for all costs associated with customer-generator's facility and is also responsible for all costs related to any modifications to the facility that may be required by the Cooperative for purposes of safety and reliability.

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4. Customer-generator shall sign and deliver to the Cooperative an Agreement for Interconnection acceptable to the Cooperative.

5. Customer-generator shall construct the power generating installation at a generating facility which shall meet all applicable safety and performance standards established by the National Electric Code, the institute of Electrical and Electronics Engineers, and Underwriters Laboratories.

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6. The customer-generator shall, at customer-generator's expense, provide all applicable safety equipment, including lockable switching equipment capable of isolating the generating facility from the Cooperative's system and such other equipment as may be or become necessary. Such equipment shall be approved by the Cooperative and shall be accessible by the Cooperative at all times. In the event that it comes to the attention of the Cooperative that there are conditions preventing safe interconnection and proper parallel operation, it shall notify customer-generator and customer-generator shall not interconnect until such conditions are corrected.

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7. The customer-generator shall notify the Cooperative in writing at least thirty (30) days in advance of energizing the small power generating installation and permit the Cooperative to inspect and test protective equipment.

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PARALLEL OPERATION:

1. Installation. With the exception of only the Cooperative's meter(s), the customer-generator shall own and be solely responsible of all expense, installation, maintenance and operation of the power generating installation at and beyond the point of service between customer-generator and the Cooperative. The customer-generator's generating installation shall be designed and installed in accordance with applicable codes, regulations and prudent engineering practice.

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2. Self-Protected Generating Installation. The customer-generator will furnish, install, operate and maintain in good order and repair all equipment necessary for the safe operation of the power generating installation 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 generating installation from the Cooperative's system in the event of an outage of the Cooperative's system or a malfunction of the power generating installation.

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The customer-generator's power generating installation will also be designed, installed and maintained to be self-protected from normal and abnormal conditions in the Cooperative's electric distribution system. The conditions for which the power generating installation shall be self-protected shall include, but not be limited to, over voltage, under voltage, overcurrent, frequency deviation, and faults. The self-protection will be compatible with the Cooperative's system protection arrangements and operating policies. Specialized protective functions may be required by the Cooperative when, in the sole judgment of the Cooperative, the particular generating installation characteristics and/or distribution system characteristics so warrant.

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3. Quality of Service. Customer-generator's generating installation will generate power at the nominal voltage of the Cooperative's electric distribution system at the customer-generator's delivery point plus or minus five percent (5%), at the nominal system frequency of 60 Hz plus or minus one-tenth (1/10) Hz. Customer-generator shall generate at a power factor that is as near one hundred percent (100%) as is practicable. In the event that the power factor is less than ninety percent (90%) lagging or leading, the customer-generator will provide proper power factor correction (within ten percent (10%) of unity) or reimburse the Cooperative for the cost of any necessary correction. The overall quality of the power provided by customer-generator 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's electric distribution system is not adversely affected in any manner. In the event that adverse effects are caused in whole or in part by customer-generator's power generating installation, the customer-generator will correct the cause of such effects and shall not interconnect with Cooperative's system until such corrections are made.

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4. Safety Disconnect. The customer-generator, or at the customer-generator's option, the Cooperative, shall provide and install at the customer-generator's expense, a visible break disconnect switch. The disconnect switch will be located so as to be readily accessible to Cooperative personnel in a location acceptable to both the customer-generator and the Cooperative. It shall be the type of switch that 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, (a) it is necessary to maintain safe electrical operating or maintenance conditions; (b) the customer-generator's power generating installation adversely affects the Cooperative's electric distribution system; or (c) there is a system emergency or other abnormal operating condition which warrants disconnection.

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<p>The Cooperative reserves the right to operate the disconnect for the protection of the Cooperative's system even if it affects customer-generator's power generating installation. In the event the Cooperative opens and closes the disconnect switch it shall not be responsible for energization or restoration of parallel operation of the generating installation. The Cooperative will make reasonable efforts to notify the customer-generator in the event the disconnect switch has been operated. The customer-generator will not bypass the disconnect switch at any time for any reason.</p> <p>5. <u>Access.</u> Persons authorized by the Cooperative will have the right to enter the customer-generator's property for the purpose of operating or inspecting the disconnect switch or metering. Such entry onto the customer-generator's property may be without notice. The customer-generator shall maintain access for persons authorized by the Cooperative at all times.</p> <p>6. <u>Modifications of Cooperative System.</u> In the event that it is necessary at the time of initial interconnection or at some future time for the Cooperative to modify its electric distribution system in order to purchase or continue to purchase customer-generator's output, the customer-generator will reimburse the Cooperative for all just and reasonable costs of modifications which are allocable to the customer-generator's facility. The modifications may include, but are not limited to, special interconnection equipment, protective devices, control devices or upgrading of distribution system components.</p>	<p>RD 14</p> <p>Rate</p> <p><i>To Be Deleted</i></p>

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<p>7. Liability for Injury and Damages. Customer-generator assumes full responsibility for electric energy furnished to him at and past the point of interconnection. Customer-generator is required to provide Cooperative a certificate from their insurance carrier showing satisfactory liability insurance including contractual liability insurance covering indemnity agreements which insures customer-generator against all claims for property damage and for personal injury or death arising out of, resulting directly or indirectly from or in any manner connected with the installation, operation or maintenance of the customer-generator's generating equipment. It should specifically indemnify the Cooperative against and hold the Cooperative harmless from all claims for both injuries to persons, including death resulting there from, and damages to property occurring upon the premises owned or operated by customer-generator arising from electric power and energy delivered by the Cooperative or in any way arising directly or indirectly from customer-generator's generating installation.</p> <p>The amount of such insurance coverage shall be at least \$1,000,000 per occurrence or in amounts approved from time to time by the Cooperative's Board of Directors. The Certificate of Insurance shall also provide that the insurance policy will not be changed during its term without thirty (30) days notice to the Cooperative. A copy of a currently effective insurance certificate shall be provided to the Cooperative prior to interconnection and proof of renewal or continuation of such insurance at least annually.</p> <p>The Cooperative shall not be liable for either direct or consequential damages resulting from failures, interruptions, or voltage and wave form fluctuations occasioned by causes reasonably beyond the control of the Cooperative, including, but not limited to, acts of God or public enemy, sabotage and/or vandalism, accidents, fire, explosions, labor troubles, strikes, order of any court or judge granted in any bona fide adverse legal proceeding or action, or any commission, tribunal or governmental authority having jurisdiction.</p>	<p>RD 14</p> <hr/> <p>Rate</p> <p style="font-size: 2em; transform: rotate(-15deg); opacity: 0.5;">To Be Deleted</p>

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<p>8. Notice of Change of Installation. Customer-generator will notify the Cooperative in writing fifteen (15) days in advance of making any change affecting the characteristics, performance or protection of the generating installation. If it comes to the Cooperative's attention that the modification will exceed the Cooperative's capacity at the service location, create or has created conditions which may be unsafe or adversely affect the Cooperative's system then it shall notify customer-generator and customer-generator shall immediately correct such condition.</p> <p><u>RATE</u> A customer receiving service under this Schedule is subject to the identical rate structure and rate components that would be assigned if the customer were not an eligible customer-generator. An eligible customer-generator served under this schedule is responsible for all charges from its otherwise-applicable rate schedule including but not limited to monthly minimum charges, customer charges, meter charges, Basic Charges, demand charges, and surcharges.</p> <p><u>SPECIAL CONDITIONS</u> 1. <u>Metering Equipment</u>. Metering under this schedule shall be accomplished using a single meter capable of registering the flow of electricity in each direction. If the Cooperative's electrical meter at the customer-generator's site is not capable of measuring the flow of electricity in two directions, the customer-generator shall be responsible for all expenses involved in purchasing and installing a meter that is capable of measuring electricity flow in two directions. The customer-generator shall pay the differential cost between any other additional metering requested and the metering normally provided by the Cooperative to customers who do not receive service under this schedule.</p>	<p>RD 14</p> <p>Rate</p> <p>Applicable rate tariff</p> <p><i>To Be Deleted</i></p>

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2. Billing. The billing period to be used under this schedule shall be the customary billing period for ordinary residential or commercial service rate schedules. In any billing period where any amount of electricity is supplied by the Cooperative to the customer-generator, the Cooperative will bill the customer-generator for the electricity consumed per the terms of the applicable rate schedule.

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In billing periods where the electricity generated by the customer-generator offsets the total usage by the customer-generator and no electricity is supplied by the Cooperative for that period, the customer-generator is required to pay only the customer charges and minimums that the customer would have otherwise paid under the applicable rate schedule.

The Cooperative shall pay the customer-generator for any generation supplied to the Cooperative at the Cooperative's avoided cost, which shall be the average cost of power to the Cooperative for the immediately preceding calendar year; except that the avoided costs will be computed by removing all purchased power costs associated with the provision of service to the carbon dioxide production facility (service provided under tariffs SCS-1 and SCS-1).

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At the beginning of each calendar year, any excess generation metered during the previous year shall be paid by the Cooperative to the customer-generator at the rate described above.

ELECTRIC SERVICE REGULATIONS

Service under this schedule will be in accordance with the terms of the electric service regulations of the Cooperative as approved by the Cooperative Board of Directors and any regulatory authorities having jurisdiction.

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