

DIXIE ESCALANTE RURAL ELECTRIC ASSOCIATION  
71 EAST HIGHWAY 56  
BERYL, UTAH 84714

UTAH  
DISTRIBUTED GENERATION  
(UP TO 25kW FOR RESIDENTIAL)

Service will be made available to customers of the Cooperative under this rate schedule if customer operates a Customer generating system that supplies part or all of Customer's electrical energy needs and may produce energy in excess of Customer's electrical energy needs. Customer generating system operates in parallel with Cooperative's electrical system, must have the same nominal voltage, frequency (60Hz,) and electrical phasing output as Customer's electrical service from Cooperative, must not exceed 25 kW of capacity for a residential facility, or not more than 2 MW for a non-residential facility, must be a fuel cell or driven by renewable energy derived from wind, sun, water, hydrogen, organic waste, waste gas, biomass, or geothermal energy and must be located on Customer's premises.

Energy Export Credit: A per kWh credit at same rate as retail tariff, including any Wholesale Power Cost Adjustments, under which customer is currently served, will apply against the power and energy charges only, and will not apply against monthly Facilities Charge. Excess export credit values will carry over and apply against power and energy charges in subsequent monthly bills. At the end of the annualized billing period, the value of remaining unused credits shall be granted to low-income HEAT assistance programs, or for another use as approved by the Cooperative Board of Directors.

**ANNUALIZED BILLING PERIOD:** A 12-month billing cycle beginning on April 1 of one year and ending on March 31 of the following year.

**BI-DIRECTIONAL METER:** Service under this Distributed Generation Tariff will require the installation of appropriate bi-directional metering equipment prior to initiation of the Distributed Generation service. Under this tariff customer is responsible to pay the cost difference between a regular and bi-direction meter, currently \$400 for a residence, prior to initiation of service under this tariff.

**DISTRIBUTED GENERATION APPLICATION:** Cooperative requires that the Distributed Generation Customer submit an application before interconnecting Customer Generation System. The Application Fee is \$60.

**INTERCONNECTION AGREEMENT:** Cooperative requires that the Distributed Generation Customer enter into an interconnection agreement before interconnecting Customer Generation System.

**INTERCONNECTION AND EQUIPMENT:** Customer Generation System must meet or exceed applicable local and national standards regarding electrical and fire safety, power quality, and interconnection requirements. These standards include, but are not limited to, those established by the American National Standards Institute (ANSI), National Electrical Code (NEC), National Electrical Safety Code (NESC), the Institute of Electrical and Electronics Engineers (IEEE), and Underwriters Laboratories (UL.) Customer generating system must be controlled by an Inverter that has been designed, tested, and certified to meet or exceed the current version of the UL 1741 and IEEE 1547 standards.

**POWER FACTOR:** The customer shall maintain not less than a 95% lagging power factor. Those customers which are determined to have power factors of less than 95% lagging shall have the demand for billing purposes increased by 1% for every 1% that the power factor is less than 95%.

**POWER QUALITY:** The required levels of current or voltage distortion shall be within the levels outlined in IEEE Standard 519-2014, IEEE Recommended Practices and Requirements for Harmonic Control in Electric Power Systems, or any successor IEEE standard. When problems are brought to the attention of the Cooperative, the Cooperative will measure the total and individual order harmonic distortion currents, and will share such information obtained with the customer. Customers needing to take corrective actions to eliminate excessive harmonics and their effect on other customers shall be notified of such need in writing, and shall be given 90 days following notification to make corrections which eliminate problems. If the offending customer does not eliminate problems within 90 days following notification, the Cooperative shall, at its sole option, take corrective actions and bill customer for expenses of such corrective actions or may disconnect service.

Effective: August 1, 2018, through August 1, 2032, or until total nameplate capacity of connected Distributed Generation reaches 1000kW, after which the per kWh credit for exported energy will transition from retail to wholesale power costs over a 5 year period.

# Application for Operation of Customer-owned Generation System Under Cooperative's Distributed Generation Tariff

**This application ("Application") should be completed as soon as possible and returned to the Cooperative at the address listed below in order to begin processing this request.**

*INFORMATION: This application is used by the Cooperative to determine the required equipment configuration and special studies (if any) for the Distributed Generation Customer interface. Every effort should be made to supply as much information as possible.*

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## **OWNER/APPLICANT INFORMATION**

Legal Name of Owner/Applicant: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Phone Number: \_\_\_\_\_ Representative (if Company): \_\_\_\_\_  
Applicant's Electric Service Account Number: \_\_\_\_\_  
Name/Address of the Applicant as it appears on the Applicant's electric bill:  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

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## **PROJECT DESIGN/CONSULTING ENGINEER (ARCHITECT/ENGINEER) (as applicable)**

Company: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Phone Number: \_\_\_\_\_ Representative: \_\_\_\_\_

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## **ELECTRICAL CONTRACTOR (as applicable)**

Company: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Phone Number: \_\_\_\_\_ Representative: \_\_\_\_\_

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## **PROVIDE PLANNED DATES AS FOLLOWS:**

Installation Period: From: \_\_\_\_\_ To: \_\_\_\_\_  
Testing: \_\_\_\_\_  
Start Up: \_\_\_\_\_  
Full Operation: \_\_\_\_\_

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**EXISTING ELECTRICAL SERVICE**

Capacity: \_\_\_\_\_ (amperes) Service Characteristic (mark one): ( ) Single Phase ( ) Three Phase  
Total Site Load: \_\_\_\_\_ (kW)  
Residential: \_\_\_\_\_ Commercial: \_\_\_\_\_ Industrial: \_\_\_\_\_

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**GENERATOR INFORMATION**

Generator Rating: \_\_\_\_\_ (kW) Annual Estimated Generation: \_\_\_\_\_ (kWh)  
Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_ Version: \_\_\_\_\_  
( ) Single Phase ( ) Three Phase  
TYPE OF PRIME MOVER (mark as applicable)  
Photovoltaic (Solar): \_\_\_\_\_ Wind: \_\_\_\_\_ Water: \_\_\_\_\_  
Fuel Cell: \_\_\_\_\_ Biomass: \_\_\_\_\_

**MODE OF OPERATION**

Interconnection Voltage: \_\_\_\_\_ Volts  
Isolated: \_\_\_\_\_ Paralleling: \_\_\_\_\_ Power Export: \_\_\_\_\_

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**INVERTER DATA**

Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_  
Rated Power Factor (%): \_\_\_\_\_ Rated Voltage (Volts): \_\_\_\_\_ Rated Amperes: \_\_\_\_\_  
Inverter Type (ferroresonant, step, pulse-width modulation, etc): \_\_\_\_\_  
Approval/Testing Laboratory: \_\_\_\_\_  
Type commutation: forced line (circle applicable one)  
Harmonic Distortion: Maximum Single Harmonic (%) \_\_\_\_\_  
Maximum Total Harmonic (%) \_\_\_\_\_

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**DESCRIPTION OF PROPOSED INSTALLATION AND OPERATION**

Give a general description of the proposed installation. Include a detailed description of its planned location if different than address on electric bill when you plan to operate the generator and how it will be interconnected to your facilities.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ADDITIONAL INFORMATION**

*In addition to the items listed above, please attach a detailed one-line diagram of the proposed facility, all applicable diagrams, major equipment, specifications, test reports, etc., and any other available drawings or documents necessary for the proper review and design of the interconnection.*

*Please attach copies of product literature about the equipment you are planning to install.*

Attached ( ) Yes ( ) No

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**SIGNATURE**

The Owner/Applicant agrees to provide the Cooperative with any additional information required to complete the interconnection. The customer shall operate equipment within the guidelines set forth by the Cooperative. Note that this application and other information below may become Exhibits in the *Agreement for Interconnection and Parallel Operation of Customer-owned Generation System under Cooperative's Distributed Generation Tariff*. That Agreement is required for Interconnection.

The Owner/Applicant certifies that all information provided in this Application is true and accurate.

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Owner/Applicant

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Date

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**ELECTRIC COOPERATIVE CONTACT FOR APPLICATION SUBMISSION AND FOR MORE INFORMATION:**

Cooperative                      Dixie Escalante Rural Electric Association, Inc. dba Dixie Power

Cooperative contact:      Colin Jack  
Title:                              Chief Operating Officer  
Address:                        3071 South River Road  
   St. George, UT 84790

Phone:                            435-673-3297  
Fax:                                435-673-3315  
e-mail:                            [colinj@dixiepower.com](mailto:colinj@dixiepower.com)

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Other information that was provided by the Cooperative with this Application:  
Distributed Generation Tariff  
Interconnection Agreement

# **Agreement**

## **For Interconnection and Parallel Operation of Customer-owned Generation System with Cooperative's Distribution System Under Cooperative's Distributed Generation Tariff**

This Distributed Generation Interconnection Agreement ("Agreement") is made and entered into this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by Dixie Escalante Rural Electric Association, Inc., ("Cooperative"), a corporation organized under the laws of State of Utah, and \_\_\_\_\_ ("Owner/Operator of the Customer-owned Generation System" or "Distributed Generation Customer"), each hereinafter sometimes referred to individually as "Party" or both referred to collectively as the "Parties".

### **Witnesseth:**

WHEREAS, the Cooperative is a non-profit electric membership corporation providing retail electric service; and

WHEREAS, the Distributed Generation Customer is a member of the Cooperative; and

WHEREAS, the Distributed Generation Customer desires to install, own, operate and maintain a Customer-owned Generation System intended to supply all or part of its total electric power and energy requirements and may produce energy to be exported to the Cooperative; and

WHEREAS, the Distributed Generation Customer desires to interconnect and operate its Customer-owned Generation System in parallel with the Cooperative's electric distribution system and has complied with the provisions for interconnection contained in the Cooperative's Distributed Generation Tariff and the requirements of the Cooperative's Distributed Generation Tariff, and

NOW THEREFORE, it is understood and agreed that the Cooperative shall permit the Distributed Generation Customer to interconnect and operate its Customer-owned Generation System in parallel with the Cooperative's facilities subject to the following terms and conditions.

In consideration of the mutual covenants set forth herein, the Parties agree as follows:

This Agreement, including its Exhibits, is intended to provide for the safe and orderly operation of the electrical facilities interconnecting the Customer-owned Generation System at \_\_\_\_\_ (physical address) and the electrical distribution system owned by the Cooperative, under the Cooperative's Distributed Generation Tariff.

For definitions, see Exhibit "A" attached hereto and made part of this Agreement.

The Distributed Generation Customer has previously completed the *Application for Operation of the Customer-owned Generation under Distributed Generation Tariff* of the Cooperative. That Application is attached hereto and made part of this Agreement by reference. The *Distributed Generation Tariff* and other information applicable to the Distributed Generation Tariff and its requirements are attached hereto and made part of this Agreement by reference.

This Agreement does not supersede any requirements, by-laws, applicable tariffs, rates, rules or regulations applicable to the Distributed Generation Customer or the Cooperative regarding the interconnection and operation of their respective facilities

- 1. Intent of Parties:** It is the intent of the Distributed Generation Customer to interconnect an electric power generator to the Distributed Generation Customer's electrical system and hence to the Cooperative's electrical distribution system at the Point of Interconnection and to operate under the applicable rules and regulations of the Cooperative and its Distributed Generation Tariff.

It is the intent of the Cooperative to operate its distribution system in a manner that will furnish and maintain a high level of service to their customers and a high level of power quality

It is the intent of both parties to operate the facilities in a way that ensures safety of the public and the Cooperative's employees.

- 2.** The Distributed Generation Customer shall ensure that the Operator in Charge of the Customer-owned Generation System is competent in the operation of electrical generation systems and is aware of the provisions of any operating agreements and regulations relating to the safe operation of electrical power systems.

- 3. Operator in Charge:** The Operator in Charge for the Distributed Generation Customer is:

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Name

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Address

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City

State

Zip

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Telephone

- 4. Suspension of Interconnection:** It is intended that the interconnection should not compromise the Cooperative's protection or operational requirements. The operation of the Customer-owned Generation System and the quality of electric power and energy supplied shall meet or exceed the standards as specified by the Cooperative. If the operation of the Customer-owned Generation System or the quality of electric power and energy supplied (in the case of power export) does not meet the standards as specified, then the Cooperative will notify the Distributed Generation Customer to take reasonable and appropriate corrective action. The Cooperative shall have the right to disconnect the Customer-owned Generation System until compliance is reasonably demonstrated. Notwithstanding, the Cooperative may, at its sole discretion, disconnect the Customer-owned Generation System at the Point of Interconnection or at the Distributed Generation Customer-furnished Isolation Switch from the Cooperative's distribution system without notice if operation of that System imposes a threat, in the Cooperative's sole judgment, to life and property.
- 5. Maintenance Outages:** Maintenance outages may occasionally be required on the Cooperative's system, and the Cooperative will provide as much notice and planning as practical to minimize downtime. Compensation will not be made for unavailability of Cooperative's facilities due to outages.

6. **Access:** Access is required at all times by the Cooperative to the Customer-owned Generation System for maintenance, operation and meter reading. The Cooperative reserves the right, but not the obligation, to inspect the Distributed Generation Customer's facilities.

7. **Liability and Indemnification:** Distributed Generation Customer shall maintain adequate insurance and assume all liability for and shall indemnify the Cooperative for any direct or consequential damages, claims, losses, failures, interruptions, or voltage or waveform fluctuations, costs, bodily injury, death, or property damage, and expenses of any kind or character to the extent that they result from Distributed Generation Customer's negligence or other wrongful conduct in connection with the design, construction, operation, or in any way resulting from the Customer-owned Generation System.

Distributed Generation Customer agrees to indemnify, hold harmless, and defend the Cooperative for and from any and all losses, damages, claims, liabilities, lawsuits and other proceedings, judgments, and awards, costs, expenses and penalties arising directly or indirectly, in whole or in part, from activities related with the Customer-owned Generation System.

8. **Term:** This Agreement becomes effective when executed by both Parties and shall continue in effect until terminated. It may be canceled by Distributed Generation Customer with not less than thirty (30) days' notice to the other Party. Cooperative may cancel the Agreement if Distributed Generation Customer is in breach of this Agreement or the Customer-owned Generation System becomes inactive for a period of six (6) consecutive months.

AGREED TO BY:

*Distributed Generation Customer*

\_\_\_\_\_  
Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

AGREED TO BY:

*Dixie Escalante Rural Electric Association, Inc.*

\_\_\_\_\_  
Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date



**Definitions for Terminology Used in the Agreement  
For Interconnection and Parallel Operation  
Of a Customer-owned Generation System  
Under the Cooperative's Distributed Generation Tariff**

**Agreement** – means this *Agreement for Interconnection and Parallel Operation of a Customer-owned Generation System under the Cooperative's Distributed Generation Tariff* by and between the Cooperative and the Distributed Generation Customer.

**Applicable Laws and Regulations** – means all duly promulgated and applicable Federal, State and local laws, regulations, rules, ordinances, codes, decrees, judgments, directives, or judicial or administrative orders, permits, and other duly authorized actions of any Governmental Authority.

**Application** – The *Application for Operation of the Customer-owned Generation under Distributed Generation Tariff* of the Cooperative that allows for interconnection and parallel operation of the Distributed Generation Customer's Generation System with the Cooperative's distribution system, as approved by the State regulatory authority and the Cooperative.

**Bi-directional meter** -- A meter capable of measuring (but not necessarily displaying) electricity flow in both directions.

**Bi-directional metering** -- Measuring the amount of electricity supplied by the Cooperative and the amount fed back to the Cooperative by the Customer-owned Generation System.

**Billing period** -- The time period between the dates on which the Cooperative normally reads the retail service meter for billing purposes for any particular customer.

**Cooperative** -- The legally established electric cooperative, i.e. Dixie Escalante Rural Electric Association, Inc., offering retail electrical service to Customers within a certificated service territory.

**Cooperative's distribution system** – Cooperative's electrical facilities to which the Distributed Generation Customer's facilities are interconnected.

**Customer** -- A person or other legally established entity taking retail electrical service from the Cooperative under an existing retail tariff schedule and is a member of said Cooperative.

**Customer-owned Generation System** – An electrical generating system consisting of one or more on-site generating units. The total capacity of the aggregated generating units to be interconnected at the Point of Interconnection under this Agreement shall not exceed the amount referenced in the Distributed Generation Customer's Application form, as modified by written consent of both the Cooperative and the Distributed Generation Customer. For purposes of this Agreement, a Customer-owned Generation System is an electrical generating facility located on the Distributed Generation Customer's premises and on the Distributed Generation Customer's

side of the Point of Interconnection. Customer-owned Generation System may be operated in parallel (Paralleled) with the Cooperative's distribution system.

**Distributed Generation Customer** – An Owner/Operator of a Customer-owned Generation System that is interconnected to the Cooperative's electrical distribution system for the purpose of receiving and/or exporting electric power and energy from and/or to Customer's electrical facilities as ascribed to in the first paragraph of this Agreement, and its agents or permitted successors and assigns.

**Excess Distributed Generation Customer Generated Energy** -- The amount of Distributed Generation Customer Generated Energy, as measured in kWh, during a billing period that exceeds the Cooperative supplied energy during the same period.

**Force Majeure Event** – For purposes of this Agreement, a “Force Majeure Event” means 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 they satisfy the preceding requirements: acts of war, public disorder, insurrection, or rebellion; floods, hurricanes, earthquakes, lightning, storms, and other natural calamities; explosions or fires; strikes, work stoppages, or labor disputes; embargoes; and sabotage.

**Indemnification** – Protection against or being kept free from loss or damage.

**Interconnection** – The physical connection of Customer-owned Generation System to the Cooperative's distribution system in accordance with the requirements of this Agreement so that parallel operation may occur.

**Inverter** -- A static power controller/converter device that converts direct current power or alternating current power into alternating current power at the voltage and frequency compatible with power supplied by the Cooperative.

**Isolated** – A method of operation of Customer-owned Generation System such that it is not interconnected with the Cooperative's distribution system. Electrical separation between the Distributed Generation Customer's facilities and the Cooperative's electrical facilities at the metering point (typically referred to as the “Point of Interconnection”) or the Isolation Switch provided by the Distributed Generation Customer.

**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 the Distributed Generation Customer.

**Paralleled** – A method of operation such that the Cooperative's distribution system and the Customer-owned Generation System are connected at the Point of Interconnection.

**Party or Parties** – means either the Cooperative or the Distributed Generation Customer or both.

**Point of Interconnection** – The Point of Interconnection is the physical location where the facilities owned by the Distributed Generation Customer connect to the facilities owned by the Cooperative. This is usually the point where the meter is installed.

**Power Exporting** – Customer-owned Generation System is producing power and energy, Distributed Generation Customer's facilities and Cooperative's facilities are Paralleled, and electrical energy is moving across the Point of Interconnection into the Cooperative's distribution system.

**Term** – Means the duration of this Agreement as specified in provision 8.0 of the Agreement.