

## **Scenic Rivers Energy Cooperative**

### **Policy S.23 Renewable Generation – Distributed Generation (DG)**

**RESPONSIBILITY:** CEO and Employees.

**APPLICABILITY:**

This policy is applicable to members of the Cooperative who own and operate electric generation facilities which a) are designed to supplement energy received from the Cooperative to service not more than 110% of an existing load; b) have a generating capacity not exceeding 20 kW; c) generate electricity exclusively from renewable energy resources; and d) are proposed for connection to, or are connected to, the Cooperative's lines. This policy applies to both single-phase and three-phase connections.

The Cooperative shall generally follow the provisions of Ch. PSC 119, Wis. Adm. Code, "Rules for Interconnecting Distributed Generation Facilities" as they relate to application, contracting for service, design requirements, equipment certification and testing under this policy.

**DEFINITIONS:**

In this policy:

"Renewable energy" means energy generated from the following sources – solar, wind, biogas, biomass such as wood, crops or organic waste, or hydropower.

"DG facility" means a distributed generation facility meeting the capacity and energy source requirements set out under par. 1 of "Applicability", above.

**PROCEDURE:**

1. Application for connection of a DG facility shall be made on a form furnished by the Cooperative.
2. All engineering expenses and the cost of all recommended upgrades shall be at the member's expense.
3. All electrical work must be completed by a licensed qualified electrician. A wiring statement shall be completed by the electrician prior to the system being energized.
4. Upon approval of the application, the member and the Cooperative shall enter into a contract for electric service for a term not to exceed five (5) years.

**FACILITY REQUIREMENTS:**

1. The Cooperative may require a separate distribution transformer for a member operating a DG facility, when necessary to protect the safety of Cooperative employees or members of the public, or to avoid problems in the provision of energy to other Cooperative members.
2. The Cooperative may limit the capacity and operating characteristics of all DG equipment in a manner consistent with the electrical limitations of the Cooperative's distribution system, in

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order to avoid problems in the delivery of energy to other Cooperative members.

3. The DG facility must have a system for automatically isolating the generator from the Cooperative's lines upon loss of the Cooperative supply. Paralleling equipment must be certified by a nationally-recognized testing laboratory as meeting the testing requirements of UL 1741.
4. A lockable load-break disconnect switch must be installed between the DG facility and the Cooperative's lines. For installations interconnected at greater than 600 volts, a fused cutout switch may be substituted, where practicable. All such switches must be accessible to Cooperative.
5. If a member is proposing to connect a DG facility whose existing metering equipment will prevent reverse registration, the Cooperative will install the appropriate meter. A single meter will be used per service location. All costs of installing or upgrading such metering equipment shall be borne by the member.
6. If the Cooperative determines that installation of an isolation transformer is necessary for protection of the DG facility or the Cooperative's equipment, the cost of such transformer shall be borne by the member.
7. At no point shall the total DG capacity be more than five percent (5%) of the total capacity of the circuit of which it is a part.
8. The member is responsible for compliance with all applicable codes, and for providing protection of member owned equipment. The Cooperative at its discretion may have the service inspected by a state certified master electrician or state certified electrical inspector.

### **RULES OF OPERATION:**

1. The power output of the DG facility shall meet the Cooperative's power quality standards. Frequency and voltage shall be compatible with normal Cooperative service, and do not cause that service to fall outside the prescribed limits of PSC rules and other standard limitations.
2. The DG facility must be operated so that variations from acceptable voltage levels and other service-impairing disturbances do not result in adverse effects on the service or equipment of other members, and in a manner that does not produce undesirable levels of harmonics in the Cooperative's power supply.
3. The Cooperative may isolate a DG facility from the Cooperative's lines for any of the following:
  - a. To facilitate maintenance or repair of Cooperative facilities.
  - b. To protect Cooperative employees or other persons during system emergencies.
  - c. To protect service to other members or protect nearby communications systems or circuits, if the DG facility is operating in a hazardous manner or otherwise deleteriously affecting service to other members.
4. The member shall make equipment available and permit entry upon the property by Cooperative and communication utility personnel at reasonable times for the purposes of testing isolation and protective equipment and evaluating the quality of power delivered to

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the Cooperative's lines, and for testing to determine whether the DG facility is the source of any electric service or communications system problems.

5. The member shall be billed monthly and shall pay the fixed charge, energy charge, and system utilization charges specified in the rate schedule under which the member is served. Settlement of any amount owed by the Cooperative to the member under this policy shall be done on an annual basis. "Amount owed by the Cooperative" means a billing credit equal to the wholesale energy rate paid by the Cooperative multiplied by the metered kilowatt hours of energy delivered to the Cooperative's lines since the time of the last settlement.

### **LIABILITY OF THE PARTIES:**

Each of the parties shall indemnify and hold harmless the other party against any and all damages to persons or property occasioned, without the negligence of such other party, by the maintenance and operation by such parties of their respective lines and other electrical equipment. Members requesting an interconnect under this policy shall provide insurance coverage and provide the Cooperative a certificate of insurance naming the Cooperative as an additional insured prior to energizing a DG facility. This policy will also include minimum liability insurance determined by the Cooperative and notwithstanding any other provision of the policy, no policy shall be cancelled, expire or changed in a material way by the insurer without thirty (30) days prior written notice to the Cooperative. This insurance requirement supersedes s. PSC 119.05, Wis. Adm. Code.

*Information contained in this Policy is subject to update or modification by the Cooperative at any time and at the sole discretion of the Cooperative. Such information includes (but is not limited to) policies, procedures, rates, tariffs and applications. Some information may change as a result of external factors such as new legislation or regulations. Prior to making use of the information contained herein, please check with appropriate Cooperative staff.*

*For the above reasons, the Cooperative requests that the recipient NOT reproduce or distribute this document, or rely solely on its contents to make any business or personal decisions regarding renewable energy resources.*