

**EGYPTIAN ELECTRIC COOPERATIVE ASSOCIATION  
POLICY BULLETIN NO. 509**

**SUBJECT: INTERCONNECTION POLICY FOR QUALIFIED COGENERATION FACILITIES AND SMALL POWER PRODUCERS**

**I. OBJECTIVE**

To establish safety, reliability and economic standards for interconnection and parallel operation of distributed generation of member-owned on-site electric generation facilities using renewable fuel sources designed primarily to offset the member's electrical requirements.

**II. DEFINITIONS**

**Distributed Generation** is defined as any generation built within close proximity to the generating member's load regardless of generation capacity or energy source of such generation and includes but is not limited to:

- A. small scale environmentally friendly generators such as photovoltaics (PV), fuel cells, small wind turbines;
- B. microturbines or reciprocating engines fueled by renewable fuels such as landfill gas or methane gas from digesters;
- C. any qualifying facility (QF) under the Public Utility Regulatory Policies Act of 1978 (PURPA);
- D. any on-site generation with less than 40 kilowatts AC (hereafter "kW") of capacity interconnected with distribution facilities;
- E. commercial emergency and standby diesel generators installed, for example, in hospitals, hotels and farms;
- F. residential standby generators;
- G. generators installed by a utility at a substation for voltage support or other reliability purposes.

**Cooperative** – Egyptian Electric Cooperative Association, an Illinois not for profit corporation.

**IEEE Standard 1547** – The Institute of Electrical and Electronic Engineers, Inc. (IEEE) Standard 1547 (2017) "Standard for Interconnecting Distributed Resources with Electric Power Systems", as amended and supplemented, at the time the interconnection request is submitted.

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**IEEE Standard 1547.1** – The IEEE Standard 1547.1 (20018) “Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems”, as amended and supplemented, at the time the interconnection request is submitted.

**Nameplate Capacity** – The maximum rated output of a generator, prime mover, or other electric power production equipment under specific conditions designated by the manufacturer and is usually indicated on a nameplate physically attached to the power production equipment.

**Small Generator Facility** – The equipment used by an interconnection member to generate, or store electricity that operates in parallel with the electric distribution system with a Nameplate Capacity of less than 40 kilowatts AC (hereafter “kW”).

**UL Standard 1741** – Underwriters Laboratories’ standard titled “Inverters Converters, and Controllers for Use in Independent Power Systems”, February 15,2018, edition, as amended and supplemented.

**Witness Test** – For lab certified or field approved equipment, verification (either by an on-site observation or review of documents) by the Cooperative that the interconnection installation evaluation required by IEEE Standard 1547 Section 5.3 and the commissioning test required by IEEE Standard 1547 Section 5.4 have been adequately performed. For interconnection equipment that has not been lab certified or field approved, the Witness Test shall also include the verification by the Cooperative of the on-site design tests as required by IEEE Standard 1547 Section 5.1 and verification by the Cooperative of production tests required by IEEE Standard 1547 Section 5.2. All tests verified by the Cooperative are to be performed in accordance with the test procedures specified by IEEE Standard 1547.1.

### **III. APPLICABILITY**

This interconnection policy applies to Cooperative members proposing to install and interconnect Small Generator Facilities that:

- A. Have a Nameplate Capacity less than 40kW AC;
- B. Are not subject to the interconnection requirements of the Independent System Operations and Regional Transmission Organization; and
- C. Are designed to operate in parallel with the electric distribution system.
- D. For generating facilities with nameplate ratings of 40 kW AC or more, the member must also comply with Southern Illinois Power Cooperative’s Facilities Connection Requirements.

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**IV. INTERCONNECTION REQUESTS**

- A. Members seeking to interconnect a Small Generator Facility shall submit a completed Application for Operation of Customer-Owned Generation request.
- B. Interconnection equipment shall be deemed to be lab certified if it is evaluated by a nationally recognized testing laboratory (NRTL) and found to be in compliance with IEEE Standard 1547, including use of IEEE Standard 1547.1 testing protocols to establish conformity, UL Standard 1741 and NFPA 70 National Electrical Code.
- C. The member must submit to the Cooperative plans of the proposed installation and must obtain approval for the interconnection. This approval process will include a review by the Cooperative of the effect of the proposed generation on the Cooperative's distribution system, including its protective scheme. The member requesting interconnection shall pay the cost of this review. No interconnection will be permitted that reduces reliability to other members or causes voltage conditions on the system to be outside of the limits of ANSI C84.1 Range A. No interconnection will be permitted that is expected to produce objectionable harmonics on the system. Any mitigation required to resolve harmonic problems created by a member-owned generator will be completed and paid for by the member.
- D. For generating facilities with nameplate ratings of 40 kW AC or more the interconnection request will be forwarded to Southern Illinois Power Cooperative. Any and all requirements for said system shall be determined by Southern Illinois Power Cooperative.

**V. APPLICATION REVIEW**

- A. The Cooperative shall review the application and evaluate the potential for adverse system impacts. Any costs of construction of facilities on the Cooperative's system to accommodate the Small Generator Facility shall be paid by the member.
- B. The Cooperative shall, within 20 business days after receipt of the interconnection request, inform the applicant that the interconnection request is complete or incomplete and if so, what information is absent.
- C. The Cooperative shall, within 15 business days after the end of the 20 business days noted in B. above, verify that the Small Generator Facility equipment can be interconnected safely and reliably.
- D. Unless the Cooperative determines and demonstrates that a Small Generator Facility cannot be interconnected safely or reliably to its system and provides a letter to the applicant explaining its reasons for denying an interconnection request, the Cooperative shall approve the interconnection request subject to the following conditions:

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1. The Small Generator Facility has been approved by local or municipal electric code officials with jurisdiction over the interconnections;
2. Written notification that the project is complete and ready for interconnection has been submitted to the Cooperative. Completion of local inspections as may be required by local authorities must be submitted with said written notification.
3. The Witness Test has been successfully completed or waived; and
4. The applicant has signed an Agreement for Interconnection and Parallel Operation of Distributed Generation and provided proof of insurance or otherwise complied with the terms of the agreement. When an applicant does not sign the agreement within 30 business days after receipt from the Cooperative, the interconnection request may be deemed withdrawn unless the applicant requests to have the deadline extended. The request for extension shall not be unreasonably denied by the Cooperative.

**VI. INSURANCE REQUIREMENTS AND INDEMNIFICATION**

Throughout the term of this agreement, it is highly recommended that the member should carry a liability insurance policy issued by a licensed insurance carrier with an A.M. Best rating of B+ or better that provides protection against claims for damages resulting from (i) bodily injury, including wrongful death; and (ii) property damage arising out of the member's ownership and/or operation of the Distributed Generation facility under this agreement. The recommended insurance policy should be at least \$1,000,000 per occurrence for those members with Small Generator Facilities. The Member shall initial on the EECA interconnection agreement that they understand that EECA suggests carrying a \$1,000,000 per occurrence liability insurance policy.

A certificate of insurance may also be required from the system installer in the amount of \$1,000,000.

**VII. MISCELLANEOUS REQUIREMENTS**

- A. The Cooperative shall be reimbursed for all costs of interconnection, including all carrying costs, incurred by the Cooperative in connecting the member generation facility to the distribution system.
- B. The Cooperative shall have free access to the member's Small Generator Facility and interconnection equipment at all times to monitor operation of the member's equipment, Cooperative-supplied service equipment connected to such system, or to disconnect if the facility is not in compliance with this policy, the requirements of IEEE Standard 1547 and the non-compliance adversely affects the safety or reliability of the electric system or subjects the cooperative to undue risk. The Cooperative shall provide reasonable notice to the member prior to disconnection of the facility if possible.

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- C. The Cooperative shall have the right to inspect and approve all plans for parallel generation systems and the interconnection systems prior to initial operation or subsequent operation following modifications.
- D. The member shall make any necessary changes or adjustments to the additional facilities being operated in parallel to eliminate interference on the Cooperative's distribution system.
- E. The member shall not energize the Cooperative's system during any period of utility service interruption. The member's equipment must contain a disconnect device to which the Cooperative has access and which the Cooperative can lock in an open position to disconnect, for safety reasons, the member's electric generating facility from the Cooperative's electric delivery system.
- F. Electric generation facilities may be disconnected by the Cooperative from its system whenever, in the sole opinion of the Cooperative, such action is required by an emergency, for reasons of safety or due to interference with service to other members. The facility shall also be subject to the Cooperative's requirements for maintaining voltage standards of output and the production of reactive power.
- G. Phase, frequency and voltage of the member's interconnected generation shall be compatible with that provided by the Cooperative.
- H.

Adopted: August 24/2004  
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Revised: May 31, 2011  
Revised: April 28, 2015  
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Revised: February 22, 2022

Attested: Steve Prest, Secretary  
Attested: Paul Pyatt, Secretary  
Attested: Kevin Liefer, Secretary