

**APPALACHIAN ELECTRIC COOPERATIVE
SERVICE POLICIES**

**POLICY NO. 2100
ATTACHMENT 1**

**INTERCONNECTION AND PARALLEL OPERATION AGREEMENT FOR
RENEWABLE GENERATION OPERATING UNDER
TVA's GREEN POWER PROVIDERS PROGRAM
TIER LEVEL 1 (Less than 1 MW)**

This Interconnection Agreement ("Agreement") is made and entered into this ____ day of _____, 20____, by Appalachian Electric Cooperative (AEC), a corporation organized under the laws of the state of Tennessee and _____ hereinafter referred to as Participant, and

WHEREAS, the Participant has requested interconnection services for the output of distributed generation that is owned by the Participant or a third party (see attached Application For Interconnection) at the Participant's presently metered location, which is

NOW, therefore, for and in consideration of the mutual covenants and agreements set forth herein, the Parties agree as follows:

1. Scope of Agreement

1.1. This Agreement is applicable to conditions under which AEC and the Participant agree that one or more generating systems and all related interconnection equipment (described in the Application For Interconnection of Distributed Generation and attached to this agreement and hereinafter referred to as "Qualifying System") located at Participant's presently metered location with gross power rating of ____ kW and to be interconnected at ____ kV may be interconnected to the AEC's electric power distribution system ("System"). Execution of this agreement allows the Participant to proceed with procurement and installation of the system but Participant is not allowed to proceed with parallel operation until AEC has received a completed Certificate of Completion, AEC has conducted an onsite inspection and witnessed any required commissioning test or waived such test, and has given Participant written authorization to proceed with parallel operation.

2. Establishment of Point of Interconnection

2.1. The point where the electric energy first leaves the wires or facilities owned by the AEC and enters the wires or facilities provided by Participant is the "Point of Interconnection." AEC and Participant agree to interconnect the Qualifying

System at the Point of Interconnection in accordance with the AEC's rules, regulations, by-laws, and rates (the "Rules") which are incorporated herein by reference and the generator and all related interconnection equipment will comply with the AEC's Distributed Generation Interconnection Procedures.

3. General Responsibilities of the Parties

- 3.1. AEC has reviewed the proposed generation and related equipment as described in the Application for compliance with AEC's Interconnection Procedures and approved the Qualifying System for interconnection based on one of the following conditions:
 - 3.1.1. Qualifying System has been certified as meeting the applicable codes and standards and has passed the Fast Track Screening Process, or
 - 3.1.2. AEC in agreement with Participant has conducted additional engineering evaluations or detailed impact studies and any necessary System upgrades or changes identified by these additional studies have been implemented and Participant has paid for such changes where necessary;
- 3.2. Participant shall comply with all applicable laws, regulations, zoning codes, building codes, safety rules and environmental restrictions, including the latest version of the National Electrical Code applicable to the design, installation, operation, and maintenance of its Qualifying System.
- 3.3. The Participant shall provide Local Building Code Official inspection and certification of installation forms to AEC. The certification shall reflect that the code official has inspected and certified that the installation was permitted, has been approved, and has met all electrical and mechanical qualifications.
- 3.4. After installation, the Participant shall return the Certificate of Completion to the AEC. Prior to parallel operation, AEC may inspect the Qualifying System for compliance with standards which may include a witness test. AEC must provide written authorization before Participant can begin parallel operation.
- 3.5. Participant shall conduct operations of its Qualifying System in compliance with all aspects of the Rules and in accordance with industry standard prudent engineering practice and must comply with the latest version of IEEE 519.
- 3.6. The Participant shall be responsible for protecting its generation equipment, inverters, protective devices, and other system components from damage from the normal and abnormal conditions and operations that occur on the System in delivering and restoring power; and shall be responsible for ensuring that the Qualifying System is inspected, maintained, and tested on an ongoing basis in accordance with the manufacturer's instructions to ensure that it is operating correctly and safely. AEC will have the right to request and receive copies of the test results.

4. Inspection and On-Going Compliance

- 4.1. AEC will provide Participant with as much notice as reasonably practicable; either in writing, e-mail, facsimile or by phone as to when AEC may conduct inspection and/or document review. Upon reasonable notice, or at any time

without notice in the event of an emergency or hazardous condition, AEC shall have access to the Participant's premises for the purpose of accessing the manual disconnect switch, performing an inspection or disconnection, or, if necessary, to meet AEC's legal obligation to provide service to its customers.

5. Manual Disconnect Switch

- 5.1. Participant must install a manual, lockable, visible load break disconnect switch between the generation source and AEC's system that is visibly marked "Participant Generation Disconnect." The disconnect shall be mounted separate from but adjacent to AEC's meter socket. The Participant shall ensure that such manual disconnect switch shall remain readily accessible to AEC and be capable of being locked in the open position with a single AEC utility padlock. A permanent, weatherproof single line diagram of the facility must be located adjacent to the disconnect switch. Names and current telephone numbers of at least two persons authorized to provide access to the facility that have authority to make decisions regarding the interconnection and operation of the Qualifying System will be included.

6. Disconnection / Reconnection

- 6.1. AEC may open the manual disconnect switch or disconnect the Participant's meter, pursuant to the conditions set forth in Section 6.2 below, isolating the Qualifying System, without prior notice to the Participant. To the extent practicable, however, prior notice shall be given. If prior notice is not given, AEC shall at the time of disconnection leave a door hanger notifying the Participant that its Participant-owned generation has been disconnected, including an explanation of the condition necessitating such action. As soon as practicable after the condition(s) necessitating disconnection has been remedied, AEC will unlock the disconnect switch so Participant may reenergize the Qualifying System.
- 6.2. AEC has the right to disconnect the Participant-owned generation at any time. Some examples of situations that may require disconnect are:
 - 6.2.1. Emergencies or maintenance requirements on AEC's system;
 - 6.2.2. Hazardous conditions existing on AEC's system due to the operation of the Participant's generating or protective equipment as determined by AEC; and
 - 6.2.3. Adverse electrical effects, such as power quality problems, on the electrical equipment of AEC's other electric consumers caused by the Participant-owned generation as determined by AEC.

7. Modifications/Additions to Participant-owned Generation

- 7.1. If the Qualifying System is subsequently modified in order to increase or decrease its Gross power rating or any components are changed, the Participant must provide AEC with written notification that fully describes the proposed modifications at least thirty (30) calendar days prior to making the modifications.

8. Indemnity

8.1. Participant agrees to release, indemnify, and save harmless AEC, TVA, the United States of America, and their respective agents and employees from all liability, claims, demands, causes of action, costs, or losses for personal injuries, property damage, or loss of life or property, sustained by Participant, Participant's agents and family, or third parties arising out of or in any way connected with the installation, testing, operation, maintenance, repair, replacement, removal, defect, or failure of Participant's Qualifying System. The obligations of this section 8.1 shall survive termination of this agreement.

9. Assignment

9.1. The Interconnection Agreement shall not be assignable by either party without thirty (30) calendar days notice to the other Party and written consent of the other Party, which consent shall not be unreasonably withheld or delayed.

9.2. An assignee to this Interconnection Agreement shall be required to assume in writing the Participant's rights, responsibilities, and obligations under this Interconnection Agreement.

10. Insurance

10.1. AEC requires the following levels of Liability Insurance for Personal Injury and Property damage during the entire term of this Interconnection Agreement.

10.2. Generation up to 10 kW - Participant maintains an amount of not less than \$100,000.00.

10.3. Generation greater than 10 kW but equal or less than 100 kW - Participant maintains an amount of not less than \$500,000.00.

10.4. Generation greater than 100 kW but less than 1 MW - Participant maintains an amount of not less than \$1,000,000.00.

11. Effective Term and Termination Rights

11.1. This Agreement becomes effective when executed by both Parties and shall continue in effect as long as the TVA Green Power Providers Participation Agreement between AEC and Participant is in effect. This Agreement will be terminated immediately upon the termination of the TVA Green Power Providers Participation Agreement.

12. Entirety of Agreement and Prior Agreements Superseded

12.1. This Agreement, including the Rules, the TVA Green Power Providers Participation Agreement executed by AEC and Participant, and all attached Exhibits, are expressly made a part hereof for all purposes, constitutes the entire agreement and understanding between the Parties with regard to the interconnection of the Qualifying System of the Parties at the Point of Interconnection expressly provided for in this Agreement. The Parties are not bound by or liable for any statement, representation, promise, inducement, understanding, or undertaking of any kind or nature (whether written or oral) with regard to the subject matter hereof not set forth or provided for herein, in the

Participant's Application for Interconnection of Distributed Generation, Certificate of Completion, the TVA Green Power Providers Participation Agreement, or other written information provided by the Participant in compliance with the Rules.

13. Notices

13.1. Notices given under this Agreement are deemed to have been duly delivered if hand delivered or sent by United States certified mail, return receipt requested, postage prepaid, to:

(a) If to Appalachian Electric Cooperative:

Appalachian Electric Cooperative
P.O. Box 400
New Market, TN 37820-0400
1109 Hill Drive
New Market, TN 37820

(b) If to Participant:

The above-listed names, titles, and addresses of either Party may be changed by written notification to the other.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be signed by their respective duly authorized representatives.

APPALACHIAN EC

DG OWNER/OPERATOR

BY: _____

BY: _____

TITLE: _____

TITLE: _____

DATE: _____

DATE: _____