

**Springfield Utility Board  
Interconnection Policy  
Adopted on February 13, 2008 (Resolution 08-1)**

4-2-3 Interconnection Policy: This “Interconnection Policy for Customer-Owned, Grid Connected Electric Generating Systems” (Interconnection Policy) sets forth the requirements and conditions for interconnected non-utility-owned electric generation where such generation may be connected for parallel operation with the electrical system of Springfield Utility Board (SUB). Generating systems will be permitted to interconnect to SUB’s electric distribution system only after a determination by SUB that such interconnection will not interfere with the operation of the distribution circuit.

1. Application Of This Policy

This policy is intended to apply to facilities with an installed generating capability of 250kW or less. Requests to interconnect facilities greater than 250kW will be reviewed on a case-by-case basis and fees and charges assessed by SUB may be different than those identified in this policy. SUB staff is responsible for obtaining written agreement with customer in accordance with this policy prior to interconnection.

2. Interconnection Application Fee

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|--|----------|
| A. Facilities with an installed capability of 25kW or Less:      | \$0.00   |
| B. Facilities with an installed capability of greater than 25kW: | \$500.00 |

The above application fee is intended to recover SUB’s labor costs associated with review of an application.

In addition to the above application fee, the applicant is required to reimburse SUB for any costs association with requirements made by third parties to interconnect generation, such as the Bonneville Power Administration.

3. Meter Charge

- A. SUB shall install all meters required for interconnection.
- B. Facilities with an installed capability of 25kW or less:  
Net metered customers will have no additional charge. Customers that are not net metered are responsible for reimbursing SUB at the estimated cost of the meter and installation. (Refer to Board Policy 4-2-2, Net Metering)
- C. Facilities with an installed capability of greater than 25kW:  
Customer is responsible for reimbursing SUB at the estimated cost of the meter and installation.

#### 4. Facilities Charge

At its discretion, SUB may require additional facilities to integrate generation. In the event SUB requires additional facilities, such as a dedicated transformer to mitigate reliability impacts to other SUB services, the customer shall be responsible for the estimated cost of these facilities and installation.

#### 5. Cost of Studies

At its discretion, SUB may require studies, to assess reliability impacts related to generation interconnection. These studies shall be conducted by the customer at the customer's expense.

#### 6. Interconnection Requirements

- A. Customer shall comply with all the latest applicable National Electric Code (NEC) requirements, building codes, and shall obtain electrical permit(s) for the equipment installation.
- B. Customer shall provide space for metering equipment and meter base as per SUB requirements. Customer shall provide for a manual disconnect switch that is clearly visible from the meter and SUB shall have access to the manual disconnect switch. The manual disconnect switch shall provide a visible open-connection between customers generation and SUB's source. The manual disconnect switch shall be lockable only in the open position.
- C. Customer's over-current device at the service panel shall be marked to indicate power source and connection to SUB's distribution system.
- D. The Customer shall assume the full responsibility for all maintenance of the generator and protective equipment and keeping of records for such maintenance. These records shall be available to SUB for inspection upon request and reasonable notice.
- E. Customer's power production control system shall comply with all applicable regulations and standards for parallel operation with SUB; in particular the:
  - 1) Power output control system shall automatically disconnect from SUB power source upon loss of SUB voltage and not reconnect until SUB's voltage has been restored for at least five (5) minutes continuously.
  - 2) Power output control system shall:

- a) Automatically initiate a disconnect from SUB source within six (6) cycles if Customer's voltage falls below 60 Volts rms to ground (nominal 120 Volts rms base) on any phase, and;
  - b) Automatically initiate a disconnect from SUB's system within two (2) seconds if the Customer's voltage rises above 132 Volts rms phase to ground or falls below 104 Volts rms phase to ground (nominal 120 V rms base) on any phase, and;
  - c). In the event that either of the above events (a or b) occur, the customer will not restore generation for at least five (5) minutes after normal voltage is maintained.
- 3) At SUB's option, SUB may either manually disconnect the power generation, manually restore the power generation, or both.
- F. Customer shall pay all costs associated with the design, installation, operation, and maintenance of the generation equipment on the customer's side of the meter.
- G. Customer shall pay for any non-standard meter electrical hook-up requested by the Customer.
- H. Customer shall provide an application for interconnection that will include one-line diagram. Customer must receive SUB approval of the design prior to system installation. Customer shall not commence parallel operation of the generation equipment until inspection and written approval of the interconnection facilities has been provided by SUB. SUB shall have the right to have representatives present at the initial testing of the customer's protective apparatus, and shall retain the right to periodically inspect the facility to ensure that appropriate safety standards continue to be met.
- I. Once in operation, Customer shall make no changes or modifications in the equipment, wiring, or the mode of operation without the prior written approval of SUB.
- J. Adoption by Reference.  
In this chapter, the Utility adopts by reference all or portions of the most current regulations and standards identified below:
- 1) The National Electrical Code is published by the National Fire Protection Association (NFPA).
  - 2) National Electric Safety Code (NESC).

- 3) Institute of Electrical and Electronics Engineers (IEEE) Standard 1547, Standard for Interconnecting Distributed Resources with Electric Power Systems.
- 4) American National Standards Institute (ANSI) Standard C37.90, IEEE Standard for Relays and Relay Systems Associated with Electric Power Apparatus.
- 5) Institute of Electrical and Electronics Engineers (IEEE) Standard 519, Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems.
- 6) Underwriters Laboratories (UL), including UL Standard 1741(Standard for Static Inverters and Charge Controllers for Use in Photovoltaic Systems), Inverters, Converters, and Controllers for Use in Independent Power Systems.
- 7) Underwriters Laboratories (UL) 1703 Standard for Safety: Flat-Plate Photovoltaic Modules and Panels;
- 8) Institute of Electrical and Electronics Engineers (IEEE) 1262, Recommended Practice for Qualification of Photovoltaic (PV) Modules.

## 7. Safety, Reliability, and System Performance

- A. All Safety and operating procedures for joint use equipment shall be in compliance with, Federal, State, local, and manufacturers requirements, including the Occupational Safety and Health Administration (OSHA) standard 29 CFR 1910.269, the National Electrical Code (NEC), Oregon Administrative Rules (OAR), SUB standards, and equipment manufacturer's safety and operating manuals.
- B. SUB shall have the right to disable the ability of the generating facility to deliver power to SUB's system at any time.

## 8. Special Conditions

- A. SUB shall not be liable directly or indirectly for permitting or continuing to allow an attachment of a generation facility, or for the acts or omissions of the customer that cause damage, loss or injury, including death, to any third party. The customer shall indemnify and hold SUB harmless from any claims arising from any such acts or omissions.
- B. In the event that a facility is in violation of this policy, as determined by SUB, SUB shall have the right to disconnect the facility from SUB's system.
- C. Once a facility is operational, lockout and tag-out procedures approved by SUB must be followed.