

**Policy Bulletin No. 25
Net Metering**

Public Utility District No. 1 of Klickitat County
1313 South Columbus
Goldendale, WA 98620

**Interconnection Standards
For
Residential Net Energy Metering
With
Electric Generating Facilities
Of
25 Kilowatts Or Less**

This Policy shall allow for interconnection of Residential Net Energy Metering customers only unless previously authorized by the Klickitat PUD (Utility) Board of Commissioners.

1. PURPOSE AND SCOPE

- 1.1 The purpose of this document is to establish rules for determining the terms, conditions, technical requirements, processes and charges governing the interconnection of residential electric generating facilities with a nameplate rating of no greater than 25 kW to the electric distribution system over which the Utility has jurisdiction.
- 1.2 These rules govern the terms and conditions under which the Customer-Generator generating facility will interconnect with, and operate in parallel with, the Utilities electric system. These rules apply only to the physical interconnection of a generating facility to the Utilities electrical system. They do not govern, or grant the right to sell or purchase, or deliver any power generated by the Customer-Generator's generating facility.
- 1.3 The specifications and requirements in these rules are intended to mitigate possible adverse impacts caused by a generating facility on the Utility equipment and personnel and on other customers of the Utility. They are not intended to address protection of the Customer-Generator's generating facility, facility personnel, or internal load. It is the responsibility of the Customer-Generator to comply with the requirements of all appropriate standards, codes, statutes and authorities to protect its own facilities, personnel, and loads.
- 1.4 Electric Generating Facilities are defined as residential solar, wind, fuel cell, hydropower and other emerging technologies as approved by the Utility and limited to 25 Kilowatts or less.
- 1.5 Applicable policies pertaining to Net Energy Metering must be met by the Customer-Generator. Those policies are:

- Policy Bulletin No. 16-Line extensions- Electric
- Policy Bulletin No. 21-Customer Service Policy-Electric
- Policy Bulletin No. 43- Electrical Interconnection Requirements

2. APPLICATION OF RULES

- 2.1 These rules include various requirements applicable to the Utility, the Customer-Generator and the Generating Facility.
- 2.2 These rules modify, if necessary, any existing interconnection rules of the Utility, including but not limited to, rules implementing 80.60 RCW, Net Metering of Electricity.
- 2.3 These rules do not apply to interconnection of standby or backup generators that are not intended to operate in parallel with the Utilities system. Such interconnections will be negotiated on a case-by-case basis with the Utility and such generators will only be interconnected on terms and conditions prescribed by the Utility.

3. APPLICATION FOR INTERCONNECTION

- 3.1 An Interconnection Application form for net metered installations, 25 kW and below can be found on the Utilities web site (www.klickitatpud.com).
- 3.2 When a Customer-Generator requests interconnection from the Utility, the Customer-Generator will be responsible for conforming to the rules and regulations that are in effect. The Customer-Generator seeking to interconnect a generating facility under these rules must fill out and submit a signed Interconnection Application form to the Utility. Information must be accurate, complete, and approved by the Utility; however approval of the application as complete does not constitute approval to interconnect.
- 3.3 If a project is to be installed in a phased manner, the Customer-Generator may choose to submit application for approval of the final project size, or may choose to submit applications at each stage of the project. Each application will be evaluated based on the nameplate rating stated on the application.
- 3.4 **Application processing charge.** A nonrefundable Interconnection Application processing charge is set by the Utility according to facility size.
- 3.5 **Non-Discrimination.** All generating facility Interconnection Applications pursuant to this policy will be processed by the Utility in a non-discriminatory manner, consistent with other service requests and in a manner that does not delay other service requests.
- 3.6 **Application evaluation.** All generating facility interconnection requests pursuant to this policy will be reviewed by the Utility for compliance with the rules of its policies. If the Utility in its sole discretion finds that the application does not comply with the

rules of its policies, the Utility may reject the application. If the Utility rejects the application, it will provide the Customer-Generator with written or electronic mail notification stating its reasons for rejecting the application. All applications will be prioritized on a first-come first-served basis with no preference given. The application will be processed in a time frame where the applicant will be notified if the application is complete or incomplete within ten (10) business days.

* If incomplete: The Customer-Generator shall provide a complete application to the Utility within fifteen (15) business day of the notice. The Utility may, but is not required to, grant an extension in writing if requested. If the Customer-Generator fails to complete the application, the application expires at the end of the incomplete application period.

* If Completed: Within twenty (20) business days after a complete application notice is sent to a Customer-Generator, the Utility shall approve, approve with conditions, or deny with written justification. The Utility shall include an executable Interconnection Agreement.

3.7 **Connection Timeline.** A Customer-Generator must interconnect and operate the generating facility within one (1) year from the date of approval of the application, or the application expires.

3.8 **Withdraw of application.** If an application is withdrawn, the application fee shall be applied to a request for re-application submitted within thirty (30) business days of the withdrawal. After that time frame it will no longer be made available to the applicant for other uses or refund.

4. TECHNICAL REQUIREMENTS

4.1 All Customer-Generating systems installed and used by a Customer-Generator shall include, at the Customer-Generator's own expense and liability, all equipment necessary to meet applicable safety, power quality and interconnection requirements established by the National Electrical Code, National Electrical Safety Code, the Institute of Electrical and Electronic Engineers, Underwrite Laboratories, American National Standards Institute, Klickitat PUD policies, and local, state and federal building codes.

4.2 All safety and operating procedures for joint use equipment shall be in compliance with the Occupational Safety and Health Administration Standard 29, CFR 1910.269, the National Electrical Code, Washington Administrative Code rules, the Washington Industrial Safety and Health Administration Standard, and equipment manufacture's safety and operating manuals.

4.3 The Customer-Generator shall be responsible to obtain all applicable permit(s) for the equipment installations and modifications on their property at their expense.

4.4 the Customer-Generator shall have a dedicated circuit breaker between sources of alternating-current, i.e. between inverter(s) or other power conditioning unit(s) and the Utility distribution system.

- 4.5 The Customer-Generator's overcurrent device at the service panel shall be visible and marked to indicate power source, i.e. label disconnect breaker for the output of power conditioning unit to the Utility distribution system and, if separate, label disconnect breaker for Utility power to overcurrent device.
- 4.6 The Customer-Generator's power production control system shall comply with applicable NEC requirements, Institute of Electrical and Electronics Engineers (IEEE) Standards, and Underwriter Laboratories (UL), and shall meet minimum specifications and standards for parallel operation with the Utility, in particular the:
- a. Power output control system shall automatically disconnect from the Utility source upon loss of Utility voltage and not reconnect until the Utility voltage has been restored by the Utility. This system must be UL 1741 safety approved standard inverter, converter and controlling equipment.
 - b. Power output control system shall automatically disconnect from the Utility source if the Utility voltage fluctuates beyond plus or minus 10% (ten percent).
 - c. Power output control system shall automatically disconnect from the Utility if frequency fluctuates plus or minus 2 cycles (Hertz).
 - d. Inverter output distortion shall meet IEEE 519.
- 4.7 The meter serving the Customer-Generator shall be labeled to indicate potential electric current back feed. The Utility will provide labels when the Customer-Generator's electric system is approved for interconnection and meter is set.

5. COMPLETION PROCESS

The interconnection process is complete; the generating facility can begin operation, if and only if:

- 5.1 The applicant and the Utility execute an Interconnection Agreement;
- 5.2 A notice of approval showing inspection of the system by the electrical inspector designated by Washington State Labor & Industries;
- 5.3 All requirements and conditions of the Interconnection Agreement have been satisfied and approved by the Utility and permission has been granted by the Utility to proceed with operation.
- 5.4 Final step is the installation of a Utility owned bi-directional meter. Meaning, at no point can the Customer-Generator commence with parallel operation with the Utilities meter until written permission is given. Failure to comply shall result in a termination of the Interconnection Agreement. For billing purposes no credit for customer generation will be given for generation produced prior to KPUD written approval. The Customer-Generator will be responsible for any financial consequences as a result of generation occurring prior to approval including generation that may be treated as consumption by KPUD metering.

6. REFERENCE DOCUMENTS

The following documents further define the process and requirements for requesting interconnection to the Klickitat PUD electrical system.

1. Electric Rate Schedule No. 1a – Residential Net Energy Metering 25kw and less.
2. Residential Net Energy Metering Customer Generation Interconnection Agreement
3. Application for Residential Net Energy Metering Interconnection and Appendices
4. Policy Bulletin No. 16-Line Extensions
5. Policy Bulletin No. 21-Customer Service Policy- Electric
6. Policy Bulletin No. 43-Electrical Interconnection Requirements

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_____/s/_____
Randy L. Knowles, President

ATTEST:

_____/s/_____
Dan G. Gunkel, Vice President

_____/s/_____
Douglas B. Miller, Secretary