**Policy Bulletin No. 25**
**Net Metering**

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

**Interconnection Standards**
**For**
**Net Energy Metering**
**With**
**Electric Generating Facilities**
**Of**
**100 Kilowatts Or Less**
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This Policy shall allow for interconnection of 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 electric generating facilities with an AC capacity nameplate rating of no greater than 100 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 These interconnection standards 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 a solitary system comprised of either solar, wind, fuel cell, hydropower and other technologies and limited to 100kW or less as approved by the Utility. All other requests for interconnection shall be reviewed independently and are subject to engineering review and Board approval within a separate Agreement.

1.5 The Customer-Generator is subject to all components of applicable rate schedules as defined by service requirements including but not limited to rate schedules for Net Energy Metering and future revisions to rate schedules and rate designs including but not limited to demand, time-of-use, standby or other fee or charges as approved.

1.6 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 and 480-108 WAC.

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.

2.4 These rules do not apply to the interconnection of requests greater than 100 Kilowatts, community solar or any other requests not outlined herein.

3. APPLICATION FOR INTERCONNECTION

3.1 An Interconnection Agreement and Application (Appendix A) and other supporting documents for net metered installations, 100 kW or less 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 and Agreement 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 the Interconnection Application and Agreement for approval of the final project size, or may choose to submit the Interconnection Application and Agreement at each

stage of the project. Each submission will be evaluated based on the AC capacity nameplate rating stated on the application.

3.4 **Application processing fees.** A nonrefundable Interconnection Application processing fee is set by the Utility according to facility size and requirements as outlined in the associated Interconnection Agreement identified as Block 1 and Block 2.

3.5 **Non-Discrimination.** All generating facility Interconnection requests 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, the Utility 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.

(a) Within ten (10) business days of receiving the application the Customer-Generator will receive NOTICE of application acceptance of completion or incompletion form the Utility (known as NOTICE DATE).
(b) If incomplete: Within fifteen (15) business day of the NOTICE DATE a corrected application is due to start the evaluation process again. 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.
(c) When the application is completed:
Block 1: Within twenty (20) business days of NOTICE DATE the Utility shall approve, approve with conditions, or deny with written justification.
Block 2: Within thirty (30) business days of NOTICE DATE, the Utility shall approve, approve with conditions, or deny with written justification.

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 and control systems necessary to meet latest version of all applicable safety, power quality and interconnection requirements established by the National Electrical Code, National Electrical Safety Code, the Institute of Electrical and Electronic Engineers, Underwriters Laboratories, American National Standards Institute, the Utilities policies, and local, state and federal building codes at time of installation.

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 manufacturer'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 Electric Generating Facilities are identified in Blocks by the Utility for the purpose of installation requirements. Detailed technical specifications are to be met as outlined in the associated Interconnection Agreement.

5. COMPLETION PROCESS

Upon the completion of the interconnection process; the generating facility can begin operation, if and only if:

5.1 The applicant and the Utility execute an Interconnection Agreement and any other necessary supporting documents.

5.2 A notice of approval showing inspection of the system by the electrical inspector designated by Washington State Labor & Industries, or the Authority having Jurisdiction.

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 the Utilities 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 the Utilities metering.

6. REFERENCE DOCUMENTS

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

1. Net Energy Metering Customer Generation Interconnection Agreement
2. Application for Net Energy Metering Interconnection and Appendices
3. Policy Bulletin No. 16-Line Extensions
4. Policy Bulletin No. 21-Customer Service Policy- Electric
5. Policy Bulletin No. 43-Electrical Interconnection Requirements

Adopted by the Board of Commissioners: 2/8/00
Revisions Approved: 07/25/00 and 3/09/2010
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Revision Approved: 09/22/2020

_____
Dan G. Gunkel, President

ATTEST:

_____
Douglas B. Miller, Vice President

_____
Randy L. Knowles, Secretary

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

# Net Energy Metering
# Customer Generation Interconnection Agreement
# and Technical Requirements
# For:
# Electric Generating Facilities
# Of
# 100 Kilowatts Or Less

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1. CUSTOMER-ELECTRIC GENERATING FACILITY

1.1 The Customer-Generator has elected, in accordance with RCW 80.60, to operate a connected solar, wind, fuel cell or hydro-electric generating facility, with a nameplate generating AC capacity of one-hundred (100) kilowatts or less, in parallel with the Utilities transmission and distribution facilities. The Customer-Generator's electric generating facility is intended primarily to offset part or all of the Customer-Generator's electrical requirement (kilowatt-hours). All other requests for interconnection shall be reviewed independently and are subject to engineering review and Board approval within a separate Agreement.

1.2 The generating facility shall be located on the Customer-Generator's owned premises with an active electric account.

1.3 A separate Net Energy Metering Agreement shall be entered into for each Customer-Generator electrical service location(s), where separate metering may be required.

1.4 An Interconnection Application for customer generation is hereby incorporated into this Agreement as Appendix A.

1.5 Net Meter Aggregation: The administrative combination of billing net energy consumption from a designated net meter and an eligible aggregated meter. If a Customer-Generator requests and meets net energy metering requirement, the Utility shall provide meter aggregation for eligible applications. For Customer-Generators participating in meter aggregation, credits for kilowatt-hours earned by the Customer-Generator's net metering system during the billing period first shall be used to offset electricity (kilowatt-hours) supplied by the Utility at the location of the Customer-Generator's designated meter. Refer to the Net Metering Aggregation packet known as Appendix B for further definition and requirements.

2. RATES & FEES ASSOCIATED WITH NET ENERGY

2.1 The Customer-Generator is subject to all applicable rate schedules as defined by service requirements including but not limited to rate schedules for Net Energy Metering and future revisions to rate schedules and rate designs including but not limited to demand, time-of-use, standby or other fees or charges as approved.

2.2 Non-refundable application processing fees are:
Block 1: 25 kW or less--$100.00
Block 2: 100 kW or less --$500.00

2.3 In the event the energy (kilowatt-hours) generated by the Customer-Generator's facility exceeds the energy (kilowatt-hours) consumed on the Customer-Generator's premise, the excess (net energy in kilowatt-hours) may be distributed to the Utilities grid and will be metered by the Utility.

2.4 The Customer-Generator is subject to the payment terms specified in the Utilities

2.5 Customer Service Policy No. 21 with the exception that the Customer-Generator shall not use the Utilities Budget Payment Plan.

2.6 If the electricity (kilowatt-hours) supplied by the Utility exceeds the electricity (kilowatt-hours) generated by the Customer-Generator and distributed back to the Utility during the billing period, the Customer-Generator shall be billed for the net electricity (kilowatt-hours) supplied by the Utility; this is in accordance with normal metering practices at the applicable rate schedule.

2.7 If the electricity (kilowatt-hours) generated by the Customer-Generator is distributed back to the Utility during the billing period exceeds the electricity (kilowatt-hours) supplied by the Utility, the Customer-Generator:

(a) Shall be billed for the basic monthly fee that is consistent within the applicable rate schedule, and

(b) Shall be credited for the net excess kilowatt-hours generated, with the credit appearing on the Customer-Generator's next bill where excess electric (kilowatt-hours) consumption exists where it would be used as an offset by the banked kilowatt hours.

2.8 By March 31st of each year any remaining banked kilowatt-hour credit accumulated during the previous year shall be granted to the Utility, without any compensation to the Customer-Generator. The Utility will perform on-site annual meter reads during this timeframe as time allows.

2.9 The Customer-Generator shall pay any amount owing for electric service provided by the Utility in accordance with applicable rate schedules. Nothing in this Agreement shall limit the Utilities rights under applicable rate schedules.

## 3. INTERRUPTION OR REDUCTION OF DELIVERIES

3.1 The Utility may require the Customer-Generator to interrupt or reduce deliveries:

(a) When necessary in order to construct, install, maintain, repair, replace, remove, investigate or inspect any of its equipment or part of its system, or

(b) If it determines that curtailment, interruption or reduction is necessary because of emergencies, or compliance with prudent electrical practices.

3.2 Whenever possible, the Utility shall give the Customer-Generator reasonable notice of the possibility that interruption or reduction of deliveries may be required.

3.3 Notwithstanding any other provision of this Agreement, if at any time the Utility determines that either;

(a) The Customer-Generator's facility may endanger the Utility personnel, or

(b) The continued operation of the Customer-Generator's facility may endanger the integrity of the electric system, the Utility shall have the right to disconnect the Customer-Generator's facility from the Utilities electric system, therefore

(c) The Customer-Generator's facility shall remain disconnected until such time as is deemed satisfied that the condition(s) referenced in this Agreement have been corrected.

## 4. INTERCONNECTION

4.1 The Customer-Generator shall deliver the excess energy (kilowatt-hours) to the Utility through the Utilities meter.

4.2 The Customer-Generator shall pay for designing, installing, operating, and maintaining the electric generating facility in accordance with all applicable laws and regulations and shall comply with the Utilities Interconnection Standards as outlined herein.

4.3 The Customer-Generator, in addition to the application fee will be responsible for additional cost; such costs may include, but are not limited to, transformers, utility testing, qualification, and studies. The Customer-Generator shall be responsible for any costs associated with necessary electric system upgrades to accommodate the Customer-Generator's interconnected system, along with any future upgrade or modification to its interconnected system required by modifications in the electric system subject to Policy No. 16.

4.4 The Customer-Generator with customer-read meters are responsible for submitting the meter reads by the 20$^{th}$ of each month, estimated reads will not be allowed. Failure to comply may result in inaccurate billing where the Customer-Generator will be responsible for any financial consequences.

4.5 The Customer-Generator shall not commence parallel operation with the Utilities meter until the installation of a Utility owned bi-directional meter and written permission is delivered by the Utility. 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 the Utilities 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 the Utility metering.

4.6 The Utility continues to examine metering technologies for possible future implementation at which point existing installed metering would be replaced.

## 5. TECHNICAL REQUIREMENTS (Block 1 and Block 2)

5.1 Block 1: 25 kW or less

5.1.1 Block 1 - Applicability

All generating facilities must follow Block 1 processes and technical requirements as follows:

(a) Customer's generation must use inverter-based interconnection equipment which must be certified to meet the requirements of UL1741/IEEE1547;

(b) Must use a single phase connection and the equipment has a nameplate rating of 25 kW or less;

(c) Proposed service conductor must be connected through a single phase transformer

on a radial distribution circuit;
(d) Proposed service conductor must have interconnection at secondary voltages class (600 Volt class);
(e) Must not require construction of new or upgrade of existing Utility facilities, other than meter exchanges;
(f) Proposed generation service to be interconnected on single-phase shared secondary, will not exceed the load rating of the service wire or the nameplate kVA rating of the transformer;
(g) If proposed to be interconnected on a center tap neutral of a 240 volt service, the Customer-Generator will not create a phase imbalance between the two hot legs of the 240 volt single phase service of more than 5 kVA;
(h) All interconnected generating facilities must not exceed the Utilities equipment rating. This includes conductor, transformers, and aggregated name plates. Aggregated generation must not exceed 15% of the line sections annual peak load or exceed 15% of connected circuit's annual peak load that has been recently measured or calculated.

(h.1) A line section is that portion of the Utility's electric system connected to the generating facility and bound by automatic sectionalizing devices or the end of the distribution line.

5.1.2 Block 1 - Technical Requirements

(a) The purpose of the protection required for Block 1 generating facilities is to prevent islanding and to ensure that inverter output will be disconnected when the Utility source of electricity is de-energized. Inverters certified by an independent nationally recognized testing laboratory must meet the requirements of UL1741/IEEE1547. Inverters must also use under voltage, overvoltage, and over/under frequency elements to detect any loss of Utility power if and when power loss has been detected, all inverters must be able to initiate a shutdown.

(a.1) An interrupting device must be provided which is capable of safely interrupting the maximum available fault current supplied by the Utility.

(a.2) The generating facility must operate within the voltage and power factor ranges specified by the Utility.

(b) The Customer-Generator is required to operate and maintain the inverter in accordance with the manufacturer's guidelines.

5.1.3 Block 1-Visible-Break Lockable Disconnect:

The generating facility must include a UL listed AC disconnect switch that must have ratings sufficient for the maximum circuit current, available fault current, and voltage that is available at the terminals. It must also simultaneously disconnect all current-carrying conductors that are not solidly grounded to the circuit to which it is connected. Also it must be externally operable without exposing the operator to contact with energized parts and shall indicate whether in open (off) or closed (on) position. All install must be in compliance with latest version of the NEC and WAC codes.

The disconnect must be accessible to Utility personnel at any time of the day, that provides a visible break, is lockable in the open position, and must be located outside

between the Utilities bi-directional net meter and the generating facility, where it is located within 15 feet of the Utilities net meter and be readily available and capable of being reached quickly for operation renewal, or inspection without requiring actions such as use of tools (other than keys), to climb over or under, to remove obstacles, or use of ladders.

If the generation system disconnect is located more than 15 feet from the Utilities net meter, a directory placard must be installed at each equipment location and at the location(s) of the systems disconnect(s). The placard must meet the Utilities placard requirements outlined in Appendix C and the layout must match the site plan submitted and approved by the Utility during the application process.

(a) The Utility will have the right to disconnect the generating facility at the disconnect switch to meet operating safety requirements.
(b) To maintain the Utility's operation and personnel safety, Customer-Generator will agree that the Utility has the right to disconnect electric service either at, the disconnect switch or through other means, without liability to the Utility. These other actions to disconnect the generating facility (due to an emergency or maintenance on the Utility's system) will result in loss of electrical service to the Customer-Generators' facility or residence for the duration of time that work is actively in progress.
(c) The external disconnect switch, at the generation interconnection is required to operate and maintain the inverter in accordance with the manufacturer's guidelines and retain documentation of commissioning. Testing may also be required by the Utility, at the Customer-Generator's expense, to ensure continued operation and protection capabilities of the inverter(s). Should the inverter fail the performance test, the Utility shall disconnect the generating facility without notice, and shall require the Customer-Generator to repair or replace the inverter at their expense.

## 5.2 Block 2: 100 kW or less

### 5.2.1 Block 2 – Applicability

Interconnection of a generating facility will utilize Block 2 processes and technical requirements if the proposed generating facility meets the following requirements:
(a) It does not qualify for Block 1 interconnection applicability requirements;
(b) AC Capacity Nameplate has a rating less than or equal to 100 kW;
(c) Proposed interconnections either have a loop, radial distribution circuit, or are connected to a spot network distribution circuit limited to serving only one customer;
(d) Is proposed for interconnection to an electric distribution facility operating at or below 38 kV class;
(e) If an inverter is utilized, the inverter must be certified by an independent, nationally recognized testing laboratory to meet the requirements of UL1741/IEEE1547;
(f) Must not be a synchronous generator;

(g) If it is proposed to be interconnected on a shared secondary, the aggregate generating capacity on the shared secondary, including the proposed generating facility,

will not exceed the lesser of the service wire capability or the nameplate of the transformer;

(h) Is single-phase and is to be interconnected on a center tap neutral of a 240 volt service, its addition will not create an imbalance between the two hot legs of the 240 volt single phase service of more than 5 kW;

(i) All interconnected generating facilities must not exceed the Utilities equipment rating. This includes conductor, transformers, and aggregated name plates. Aggregated generation must not exceed 15% of the line sections annual peak load or exceed 15% of connected circuit's annual peak load that has been recently measured or calculated.

(i.1) A line section is that portion of the Utility's electric system connected to the generating facility and bounded by automatic sectionalizing devices or the end of the distribution line;

(j) Any upgrades required to the Utility's system must fall within the Block 2 Technical Requirements Section;

(k) The aggregated AC nameplate rating of existing and proposed generating facilities must not contribute more than 10% to the distribution circuit's maximum fault current at the point on the primary voltage distribution line nearest the point of interconnection;

(l) The generating facility's point of interconnection must not be on a circuit where the available short circuit current, with or without the proposed generating facility, exceeds 87.5% of the interrupting capability of the Utility's protective devices and equipment (including substation breakers, fuse cutouts, and line reclosers).

5.2.2 Block 2 - Technical Requirements

In all cases, the interconnection facilities must isolate the generating facility from the Utility's electric system when power is disconnected from its electrical system source, including but not limited to, before any reclosing (automatic or manual) takes place. The Customer-Generator will prevent its generating facility equipment from automatically re-energizing the electric system. For inverter-based systems, this requirement is satisfied by compliance with UL 1741 requirements. For non-inverter based systems a separate protection package will be required to meet IEEE1547 requirements.

(a) If the generating facility fails to meet the characteristics for Block 2 applicability, but the Utility determines that the generating facility could be interconnected safely if minor modifications to the transmission or distribution system were made (for example, changing meters, fuses, or relay settings), then the Utility may offer the applicant a good-faith, non-binding estimate of the costs of such proposed minor modifications. Modifications are not considered minor under this subsection if the total cost of the modifications exceeds $10,000. If the applicant authorizes the minor modifications and agrees to pay the entire cost of the modifications, then the Utility may approve the application using Block 2 processes and technical requirements.

(b) For proposed generating facilities 50 kW and greater, three-phase connection is required.

(c) No construction of facilities by the Utility on its own system will be required to accommodate the Block 2 generating facility except as allowed in this Agreement.

(d) For three-phase induction generator interconnections, the Utility may, in its sole discretion, specify that ground fault protection be provided. Use of ground overvoltage

or ground overcurrent elements may be specified, depending on whether three-wire or effectively grounded four-wire systems are used.
(e) The Customer-Generator is required to operate and maintain the inverter in accordance with the manufacturer's guidelines.

5.2.3 Visible-Break Lockable Disconnect:

The generating facility must include a UL listed AC disconnect switch that must have ratings sufficient for the maximum circuit current, available fault current, and voltage that is available at the terminals. I must also simultaneously disconnect all current-carrying conductors that are not solidly grounded to the circuit to which it is connected. Also it must be externally operable without exposing the operator to contact with energized parts and shall indicate whether in open (off) or closed (on) position. All install must be in compliance with latest version of the NEC and WAC codes.

The disconnect must be accessible to Utility personnel at any time of the day, that provides a visible break, is lockable in the open position, and must be located outside between the Utilities bi-directional net meter and the generating facility, where it is located within 15 feet of the Utilities net meter and be readily available and capable of being reached quickly for operation renewal, or inspection without requiring actions such as use of tools (other than keys), to climb over or under, to remove obstacles, or use of ladders.

If the generation system disconnect is located more than 15 feet from the Utilities net meter, a directory placard must be installed at each equipment location and at the location(s) of the systems disconnect(s). The placard must meet the Utilities placard requirements outlined in Appendix C and the layout must match the site plan submitted and approved by the Utility during the application process.

(a) The Utility will have the right to disconnect the generating facility at the disconnect switch to meet operating safety requirements.
(b)The external disconnect switch, at the generation interconnection is required to operate and maintain the inverter in accordance with the manufacturer's guidelines and retain documentation of commissioning. Testing may also be required by the Utility, at the Customer-Generator's expense, to ensure the inverters continued operation and protection capability. Should the inverter fail the performance test, the Utility may disconnect the generating facility without notice, and may require the Customer-Generator to repair or replace the inverter, at their expense.
(c) In the absence of an external disconnect switch, the Customer-Generator is required to operate and maintain the inverter in accordance with the manufacturer's guidelines and retain documentation of commissioning. In the absence of such documentation, and at the Customer-Generator's expense, allow the Utility, to test the inverter to ensure its continued operation and protection capability. Should the inverter fail the performance test, the Utility shall disconnect the generating facility without notice, and shall require the Customer-Generator to repair or replace the inverter, at the Customer-Generator's expense.

## 6 MAINTENANCE AND PERMITS

The Customer-Generator shall:
(a) Maintain the electric generating facility and interconnection facilities in a safe and prudent manner and in conformance with all applicable laws and regulations including, but not limited to, the Utilities Interconnection Standards, and
(b) Obtain any governmental authorizations and permits required for the construction and operation of the electric generating facility and interconnection facilities, and
(c) Notify the Utility of permit inspections for initial installation and all future changes, and
(d) The Customer-Generator shall reimburse the Utility for any and all losses, damages, claims, penalties, or liability it incurs as a result of the Customer-Generator's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of the Customer-Generator's generating facility or failure to maintain the Customer-Generator's facility as required in this Agreement.

## 7 ACCESS TO PREMISES

The Utility has permission to enter the Customer-Generator's premises or property,
(a) To inspect at all reasonable hours the Customer-Generator's protective devices and read and test meter, and
(b) To disconnect at the Utilities meter or transformer, without notice, the interconnection facilities if, in the Utilities opinion, a hazardous condition exists and such immediate action is necessary to protect persons, or the Utilities facilities, or property of others from damage or interference caused by the Customer-Generator generating facilities.

## 8 INDEMNITY AND LIABILITY

8.1 The Customer-Generator shall defend, hold harmless and indemnify, the Utility and the directors, officers, employees and agents for the Utility against and from any and all loss, liability, damage, claim, cost, charge, demand or expense (including any direct, indirect or consequential loss. liability, damage, claim, cost, charge, demand or expense, including attorney fees) for injury or death to persons (including employees of the Utility) and/or damage to property arising out of or in connection with,
(a) The engineering design, construction maintenance, repair, operation, supervision, inspection, testing, protection or ownership of, or
(b) The making of replacements, additions, betterment's to, or reconstruction of, the Customer-Generator's facilities: provided, however, the Customer-Generator's duty to indemnify the Utility hereunder shall not extend to loss, liability, damage, claim, cost, charge, demand or expenses resulting from interruptions in electrical service to the Utilities customers other than the Customer-Generator. This indemnity shall apply notwithstanding the active or passive negligence of the Customer-Generator. However, the Utility shall not be indemnified hereunder for its loss, liability, damage, claim, cost, charge, demand or expense resulting from its sole negligence or willful misconduct. The liability of the Utility to the Customer-Generator shall be governed and limited to the Utilities general duties to its customers pursuant to its Policies and Procedures.

8.2 Notwithstanding the indemnity of this document, and except for a Customer-Generator's willful misconduct or sole negligence, each Customer-Generator shall be responsible for damage to its facilities resulting from electrical disturbances or faults.

8.3 The provisions of this document shall not be construed to relieve any insurer of its obligations to pay any insurance claims in accordance with the provisions of any insurance policy.

## 9. FUTURE MODIFICATION, EXPANSION, CHANGE OF OWNERSHIP AND EXCEPTIONS

9.1 Any future modification or expansion of the Customer-Generator owned generating facility will require an engineering, safety and reliability review and approval by the Utility. The Utility reserves the right to deny the modification or expansion or to require the Customer-Generator, at their expense, to provide modifications or additions to existing electrical devices including, but not limited to protection device and meters, in the event of changes to government or industry regulation and/or standards. Future modification or expansion will require and be subject to the terms and conditions of a new Agreement.

9.2 The terms of this Agreement shall apply during such time the Customer-Generator entering into this Agreement owns the subject property and maintains an active Utility account for the subject property.

9.3 Upon such time the Customer-Generator entering into this Agreement no longer owns the subject property and/or maintains an active Utility account for the subject property this Agreement shall no longer be valid and a new Agreement will be required with the new Customer-Generator and subject to the terms of the new Agreement.

## 10. GOVERNING LAW

10.1 This Agreement shall be interpreted, governed and constructed under the laws of the State of Washington as if executed and to be performed wholly within the State of Washington. Venue of any action arising hereunder or related to this Agreement shall lie in Klickitat County, Washington.

10.2 If a Customer-Generator elects to participate in the Washington State Renewable Energy Cost Recovery Incentive program for the production of certain forms of renewable energy resources or any successor to this program or any other agencies programs, the Customer-Generator agrees that this is not the Utilities developed program and that the Utility may participate as a pass-through and participation is voluntary. The Customer-Generator must conform to the rules as they apply to said programs. I.e. Customer-Generator may be required to install a revenue-grade system output meter referred to as a "production meter" in addition to the Utility provided meter.

11. AGREEMENT AMENDMENTS, MODIFICATIONS OR WAIVER

Any amendments or modifications to this Agreement shall be in writing and agreed to by both Parties. The failure of any Party at any time or times to require performance of any provision hereof shall in no manner affect the right at a later time to enforce the same. No waiver by any Party of the breach of any term or covenant contained in this Agreement, whether by conduct or otherwise, shall be deemed to be construed as a further or continuing waiver of any such breach or waiver of the breach of any other term or covenant unless such waiver is in writing.

12. APPENDICES

The Agreement includes the following appendices, which is attached and incorporated by reference:
Appendix A: Net Energy Metering Interconnection Application
Appendix B: Net Energy Metering Aggregation Packet
Appendix C: Net Energy Metering Placard Instructions
Appendix D: Net Energy Metering Customer Generation Certificate of Completion

Additional Reference Documents:
Policy Bulletin No. 25-Inetconnection Standards for Net Energy Metering.
Electric Rate Schedules
Policy Bulletin No. 16-Line Extensions
Policy Bulletin No. 21-Customer Service Policy- Electric
Policy Bulletin No. 43-Electrical Interconnection Requirements

13. NOTICES

All written notices shall be directed as follows:

**Public Utility District No. 1 of Klickitat County**
**Energy Services~Customer Generation**
**1313 South Columbus Ave**
**Goldendale, WA 98620**

14. TERM OF AGREEMENT

This Agreement shall be in effect when signed by the Customer-Generator and the Utility and shall remain in effect thereafter month to month unless terminated by either Party on thirty (30) days prior written notice in accordance of this Agreement.

15. SIGNATURES

IN WITNESS WHEREOF, each of the undersigned declares that I (we) have read and will comply with the terms and conditions of Policy 25, Appendices and the Interconnection Agreement, with emphasis on the following:

□ I (we) understand the application fee is non-refundable and have one (1) year from Utility approval date to complete the project or a new application and fee will need submitted.

□ I (we) understand that monthly meter reads as described in this Agreement must be submitted consistently.

□ I (we) understand that the generating system cannot commence parallel operation until the net meter is installed and until written notice is delivered by the Utility per this Agreement.

□ I (we) understand that if any modifications, expansion, or change of ownership to the generating system, a new application process must take place as per this Agreement.

□ I (we) understand that I (we) are subject to all applicable rate schedules as defined by service requirements including but not limited to rate schedules for Net Energy Metering and future revisions to rate schedules and rate designs including but not limited to demand, time-of-use, standby or other fee or charges as approved.

If you are requesting meter aggregation: □ the Net Meter Aggregation form is included □ N/A

This Agreement No._____ is effective as of the last date set forth below.

**(CUSTOMER-GENERATOR)**
**Legal Owner(s) of:**

Physical Address: _____

_____
Customer Signature

_____
Print Name Date

_____
Customer Signature

_____
Print Name Date

**PUBLIC UTILITY DISTRICT NO. 1**
**OF KLICKITAT COUNTY**
**1313 S Columbus Ave**
**Goldendale, WA 98620**

_____
Utility Approval Signature

_____
Print Name Date

_____
Title

**Utility Compliance Check**

Transformer size_____, Meets Safety Standards Y N

_____ _____
Printed Name Title

_____ _____
Signature Date

**Appendix A Customer Generation Interconnection Application**
**Net Energy Metering 100kW or less**

| Utility Use Only |
| --- |
| Request No. |

**CUSTOMER INFORMATION (All legal property owners)**

Name(s): _____ Account #:_____

Meter#(designated for net meter): _____ Location of Meter_____

Sector: ☐ Residential ☐ Commercial ☐ Other as described_____

Service Address: _____City:_____ State: ____ Zip:_____

Property Tax Parcel # _____

Phone #: E-Mail:

**CONTACT INFORMATION (if different from above)**

Name(s):_____ Account #:_____

Billing Address: _____City:_____ State: ____ Zip:_____

Phone #: E-Mail:

**GENERATING SYSTEM INFORMATION**

Estimated In-Service Date:_____ Estimated Cost of System_____

Energy Source ☐ Solar ☐ Hydropower ☐ Fuel Cell ☐ Wind ☐ Other (describe)_____

Generator Type: ☐ Photovoltaic ☐ Fuel Cell ☐ Turbine ☐ Other_____

☐ Single Phase ☐ Three Phase System AC Capacity: _____(kW) Battery Back-up ☐Y ☐N
Will this system be installed in phases or as one complete project ☐N ☐Y:
Describe:_____

**SOLAR:**
Module PV Manufacturer_____ Model#_____ Qty_____
Inverter Manufacturer_____ Model # _____

**Wind Turbine/Other**
Generator Manufacturer_____ Model#_____
Inverter Manufacturer_____ Model # _____

Is equipment UL1741/IEEE1547 listed? ☐ Yes ☐ No (attach manufacture's cut-sheet showing listing)

Will this installation be meter aggregated? ☐ Yes ☐ No if so, Attach: Appendix B Aggregation form
Aggregated meter #_____
Located at_____
Current use for this meter:_____

Do you currently have Generating Facility Equipment being used on the premises that was previously certified?
☐ Yes ☐No. If so please specify:

**Appendix A Customer Generation Interconnection Application**
**Net Energy Metering 100kW or less**

| Utility Use Only |
|---|
| Request No. |

**SYSTEM INSTALLER**

Installation Company: _____ License No. _____

Mailing Address: _____City:_____ State: ____ Zip:_____

Phone #: E-Mail:

Upon approval the Utility will contact Customer to schedule the Net Meter installation. A brief interruption of power will be required for this installation. PLEASE NOTE: generating shall not commence parallel operation with the Utility until the approved net meter has been installed and written permission is delivered by the Utility.

I (we) also understand that an initial application processing fee of $100 is due in advance and is non-refundable and if this project is deemed to qualify as a Block 2 project an additional $400 non-refundable fee will be come due

I (we) hereby certify that, to my (our) best knowledge, the information provided in this Application is true. I (we) agree to abide by the Terms & Conditions set forth in the Interconnection Agreement and Net metering Policy 25. I (we) also understand that approval is contingent upon Utility review and approval.

| | |
|---|---|
| Customer Signature: | Date: |
| Customer Signature: | Date: |
| The Utility (Klickitat PUD) does not, by approval of this Application, assume any responsibility or liability for damage to property or physical injury to persons. Further, this Application does not constitute a dedication of the owner's Generating Facility to the Utilities electrical system equipment facilities | |
| Utility Representative: | Title & Date |

**FOR UTILITY USE ONLY BELOW THIS POINT**

☐ Interconnection Application & Agreement ☐ One-line Schematic Electrical Drawing
☐ Site Plan with proposed meter location(s) ☐ Specifications on proposed installed equipment
☐ Rate class identified_____
☐ Processing Fee ☐Block 1: $100 ☐Block 2: $500
☐ Additional Processing fee if applicable $_____
☐ Placard Required?☐Yes ☐No If so ☐ Proof of completion
☐ Aggregated meter Appendix B if applicable ☐Approved ☐Not-Approved
Location # Original Designated Meter # Original Aggregated Meter#

| Item # | Timeline of Completion | Date | Duration Rule |
|---|---|---|---|
| 1 | Application received from Customer | | N/A |
| 2 | Notice of Completion or Incompletion | | Within 10 business days of item #1 |
| 3 | If Incomplete: Corrected Application Due (will then be subject to Notice of receipt timeline starting over) | | Within 15 business days of item #2 |
| 4 | If/Once Complete: Approval/Denial of Application by Utility with notice to proceed | | Block 1:Within 20 business days Block 2: Within 30 days business days of item #2 |
| 5 | Deadline for Interconnection | | 1 year from item #4 |

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

**Net Energy Metering**
**Appendix B: Net Metering Aggregation**
**In conjunction with**
**Customer Generation Interconnection Agreement**
**For:**
**Electric Generating Facilities**
**Of**
**100 Kilowatts Or Less**
**----------**

1. DEFINITIONS ASSOCIATED WITH NET METER AGGREGATION

*Meter Aggregation:* Means the administrative combination of billing net energy consumption (kilowatt-hours) from a designated net meter and an eligible aggregated meter.

*Designated Meter*: Means a bi-directional electric service meter at the service of a net metering system that is interconnected to the utility distribution system under an approved Net Metering Agreement.

*Aggregated Meter*: Means an electric service meter measuring electric energy consumption (kilowatt-hours) that is eligible to receive credits under a net meter aggregation arrangement as described in RCW 80.60.030.

*Contiguous Parcel*: mean they are pieces of real estate that are adjoined or adjacent to each other. Contiguous lots share a common boundary. In this situation, a parcel is considered contiguous if they also are separated only by a road or rail corridor.

2. INTERCONNECTION OF NET METER AGGREGATION

In accordance to Senate Bill E2SSB5223 approved by Washington State Legislation 2019 and as describe within the Net Energy Metering Interconnection Agreement:

If a Customer-Generator requests, the Utility shall provide meter aggregation for eligible applications. For Customer-Generators participating in meter aggregation, credits for kilowatt-hours earned by the Customer-Generator's net metering system during the billing period first shall be used to offset electricity supplied by the Utility at the location of the Customer-Generator's designated meter.

A Customer-Generator may aggregate a designated meter with <u>one</u> additional aggregated meter located on the same parcel as the designated meter or a parcel that is contiguous with the parcel where the designated meter is located.

A Customer-Generator participating in aggregation must be the same customer who receives electric services from the Utility at the designated meter that is located on the premises where such a Customer-Generator's net metering system is located.

Credits for the excess kilowatt-hours earned by the net metering system at the site of the designated meter during a billing period, shall be credited by the Utility for kilowatt hour charges due at the aggregated meter at the applicable rate of the aggregated meter. Meters so aggregated shall not change rate classes due to meter aggregation.

If credits generated in any billing period exceed total consumption for that billing period both meters that are part of an aggregated agreement. Credits are retained as banked united attached to the designated meter and are subject to the March 31st rule in the Customer-Generation Interconnection Agreement.

Residential Multi-Family net metering aggregation may be available if, the owner of a Multi-Family residential facility has a generating system and it is assigned to a single designated meter located on the premises of the Multi-Family residential facility where the tenants are not individual metered customers of the Utility and distributing benefits of the net metering system to tenants of the facility where the net metering system is located. The Utility must measure the net energy produced and provide credit to the single designated meter to which the net metering system is assigned. The distribution of benefits of such a system, if any, is the responsibility of the owner of the net metering system and not the responsibility of the Utility and is limited to the name-plate generating capacity of not more than one-hundred kilowatts (100).

3. SIGNATURES

IN WITNESS WHEREOF, each of the undersigned declares that I (we) have read and will comply with the terms and conditions of this appendices B , Policy 25, Applicable Schedules and the Interconnection Agreement .

| | |
|---|---|
| Original Meter No. | |
| Original Meter physical location | |
| Generating system capacity (kW) | |

| | |
|---|---|
| Aggregated Meter No. Requested | |
| Aggregated Meter Requested physical Location | |
| Current use of the requested aggregated meter | |

This Agreement No:_____is effective as of the last date set forth below.

| **(CUSTOMER-GENERATOR)**<br>**Legal Owner(s) of:**<br><br>Physical Address:_____ | **PUBLIC UTILITY DISTRICT NO. 1**<br>**OF KLICKITAT COUNTY**<br>**1313 S Columbus Ave**<br>**Goldendale, WA 98620** |
|---|---|
| _____<br>Signature | _____<br>Approval Signature |
| _____<br>Print Name | _____<br>Print Name |
| _____<br>Signature | _____<br>Title |
| _____<br>Print Name | _____<br>Date |

| **FOR UTILITY USE ONLY BELOW THIS POINT** |
|---|
| **The following have been received:**<br><br>☐ Interconnection Application & Agreement Account#_____<br><br>Original Designated Meter #_____ Rate Class:_____ Loc#_____<br><br>Original Aggregated Meter#_____ Rate Class:_____ Loc#_____<br><br>New Designated Net Meter #_____ ☐ Billing Set Up Completed<br><br>Aggregated meter Appendix B: ☐Approved ☐Not-Approved if so why_____<br><br>Notes:_____<br>_____<br>_____ |

Klickitat PUD
1313 S Columbus Ave
Goldendale, WA 98620

Anita Clever
Energy Services
(509) 773-7622
aclever@klickpud.com

# *Appendix C: Net-Generation Placards*

Photovoltaic solar and other generation installations are required to use equipment signage called Tags, Labels, or Engraved Placards. The Utility is requiring Engraved Solar PV Placards made of plastic in place of labels for all exterior locations.

These engraved plastic labels are used to identify solar and other generation equipment and prevent safety issues. The engraved placards last longer and stand up better to the elements than the safety labels used in the past.

**Specifications:**

- UV Rated Plastic-Outdoor rated and designed to last ten years and beyond
- Temperature rating for use between -40F to 176F
- Engraved
- Designed to meet NEC 690and NEC 705 requirements
- 1/16" to 1/8" Thickness
- Properly installed with strong adhesive backing or rivets holes where applicable

# *Placement Requirements*

**Directory Placards:**

If the generation system disconnect is located more than 15 feet from the Utilities net meter, a directory placard must be installed at each equipment location and at the location(s) of the systems disconnect(s). The layout must match the site plan submitted and approved by the Utility during the application process. The placards must provide information as to where the array is located for first responders and to show the location of any load centers or other disconnection devices.

All other NEC required labeling must also be placed in the required locations. This information can be obtained from your electrician or Washington State Labor and Industries.

<u>Locations for directory placards:</u>

Utility Meter

Main Service Panel

Sub Panels (If present)

AC disconnect / Production meter

KLICKITAT PUD

Honesty | Accountability | Customer Focused

**Appendix D Certificate of Completion**
**Net Energy Metering 100kW or less**

| Utility Use Only |
| --- |
| Project No. |

**CUSTOMER GENERATOR INFORMATION**

Name(s): _____ Account #:_____

Generating Address: _____City:_____ State: ____ Zip:_____

Billing Address: _____City:_____State:____Zip:_____

Property Tax Parcel #_____

Phone #: E-Mail:

**SYSTEM INSTALLER INFORMATION**

Installation Company: _____ License No. _____

Mailing Address: _____City:_____ State: ____ Zip:_____

Phone #:_____ E-Mail:_____

L&I Electrical Work Permit # L&I Approval Date

**GENERATING SYSTEM INFORMATION (As Built)**

In-Service Date:_____
Meter#(designated for net meter): _____Aggregated Meter#_____

☐ Single Phase ☐ Three Phase System AC Capacity: _____(kW) _____ (kV Battery Back-up ☐Y ☐N

**SOLAR:**
Module PV Manufacturer_____ Model#_____ Qty_____
Inverter Manufacturer_____ Model # _____

**Wind Turbine/Other**
Generator Manufacturer_____ Model#_____
Inverter Manufacturer Model #

The Utility has installed the Net Meter to your generating system as approved herein. You may now commence parallel operation with the Utility.

If you are a self-read meter customer you are responsible for submitting the meter reads to the Utility by the 20th of each month, estimated reads will not be allowed.

As per the executed Net Energy Interconnection Agreement you herby have certified that you agree to abide by the rules set forth in the Net Energy Interconnection Agreement, Policy 25 and associated documents referenced.

Utility Representative: Dated:

Klickitat PUD /Energy Services
1313 S Columbus Ave., Goldendale WA 98620
aclever@klickpud.com 1(509) 773-7622