

**PACIFIC POWER & LIGHT COMPANY**

FOR COMMISSION'S RECEIPT STAMP

**SCHEDULE 136  
INTERCONNECTION TARIFF**

**AVAILABLE:**

In all territory served by Company in Washington.

**APPLICABLE:**

To any Customer that owns or operates a generating facility interconnected or requested to be interconnected with, and operate in parallel with Company's electric system, including without limitation net-metered facilities, with a capacity of either 1) no more than 300 kilowatts or 2) greater than 300 kilowatts but no more than 20 megawatts. This Schedule does not apply to interconnections or requests for interconnection that are subject to the jurisdiction of the Federal Energy Regulatory Commission. This Schedule does not apply to interconnection of, or electrical company services to, PURPA qualifying facilities pursuant to chapter 480-107 WAC. This Schedule does not apply to standby generators designed and used only to provide power to the customer when the local electric distribution company service is interrupted and that operate in parallel with the electric distribution company for less than 0.5 seconds both to and from emergency service. This Schedule does not govern the settlement, purchase or delivery of any power generated by an interconnection customer's net-metered or production-metered generating facility. This Schedule is offered in compliance with WAC 480-108-001 through WAC 480-108-999 (<http://apps.leg.wa.gov/wac/default.aspx?cite=480>)

**DEFINITIONS:**

Interconnection means the physical connection of a generating facility to Company's electric system so that parallel operation may occur. Interconnection facilities means the electrical wires, switches and other equipment owned by Company or Customer and used to interconnect a generating facility to the electric system. Interconnection facilities are located between the generating facility and the point of common coupling. Interconnection facilities do not include system upgrades. The definitions contained in WAC 480-108-010 shall apply to this Schedule.

**COMPANY DESIGNATED POINT OF CONTACT**

This information is provided on page 2 of Appendix A to this Tariff

**SPECIAL CONDITIONS:**

A. Generating Facilities with a Nameplate Capacity Rating up to 300 kilowatts.

1. The interconnection of a generating facility, the modification of a currently interconnected generating facility or the modification of an existing interconnection must meet all minimum technical specifications applicable in their most current approved version, as set forth in WAC 480-108-999.

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**SPECIAL CONDITIONS: (continued)**

2. Interconnection must comply with all applicable requirements in Table 1 as set forth in WAC 480-108-020(1)(b). Any single or aggregated generating facility with a capacity greater than 50 kW requires a three-phase interconnection. Customer must comply with the requirements of all appropriate standards, codes, statutes, and authorities to protect Customer's own facilities, personnel, and loads.

3. Company may verify Customer's compliance with applicable requirements for interconnection at any time, with reasonable notice. Company may refuse to establish or maintain interconnection with any Customer that fails to comply with the requirements of WAC 480-108-020 (f)(i), (ii) and (iii). Company may, at its sole discretion, approve alternatives that satisfy the intent of, and/or may excuse compliance with, any specific elements of the requirements of WAC 480-108-020 (f)(i), (ii) and (iii) except local, state and federal building codes.

Company may require verification that Customer has obtained all applicable permit(s) for the equipment installations on Customer's property.

Company will verify that Customer has furnished and installed on Customer's side of the meter, a UL-approved safety disconnect switch that can fully disconnect the generating facility from Company's electrical system. The disconnect switch must be located adjacent to Company's meter(s) and must be of the visible break type in a metal enclosure that can be secured by a padlock. The disconnect switch must be accessible to Company's personnel at all times. Company may waive this requirement if: (a) Customer provides interconnection facilities that Customer can demonstrate, to the satisfaction of Company, are capable of performing physical disconnection of generating equipment supply internally; and (b) Customer agrees that service may be disconnected entirely if generating equipment must be physically disconnected for any reason. If Company grants such waiver, it must be explicit and in writing.

4. Company may disconnect generating facilities at the disconnect switch when necessary to maintain safe electrical operating conditions; if the generating facility does not meet required standards; or if the generating facility at any time adversely affects or endangers any person, the property of any person, Company's operation of its electric system or the quality of Company's service to other customers.

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**SPECIAL CONDITIONS: (continued)**

5. Nominal voltage and phase configuration of Customer's generating facility must be compatible with Company's system within generally accepted engineering standards, including without limitation IEEE Standards 141 and 519, at the point of common coupling.

6. Company will verify, on the basis of evidence provided by Customer, that Customer's generating facility, if interconnected to a grid network distribution system or a spot network distribution system, will not impair public safety or quality of service to Company's other customers as a result of reverse current flow through Company's network protectors.

All interconnections to spot network distribution system require review, studies as necessary, and written approval by Company.

All interconnections to grid network distribution systems require review, studies as necessary, and written approval by Company.

Closed transition transfer switches are not allowed in network distribution systems.

7. Specifications applicable to all inverter-based interconnections.

In addition to the requirements in WAC 480-108-020 (1) and (2), the interconnection of any inverter-based generating facility with Company's electric system, or the modification of an existing interconnection with an inverter-based generating facility must meet the following technical specifications, in their most current approved version: IEEE Standard 1547, Standard for Interconnecting Distributed Resources with Electric Power Systems; UL Standard 1741, Inverters, Converters, and Controllers for Use in Independent Power Systems (Equipment must be UL listed); and IEEE Standard 929, IEEE Recommended Practice for Utility Interface of Photovoltaic (PV) Systems.

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**SPECIAL CONDITIONS: (continued)**

8. Noninverter-based interconnections and inverter-based interconnections failing to meet the requirements of WAC 480-108-020(3) may require more detailed Company review. Company must demonstrate the need for additional testing and approval of equipment if the same equipment has been tested and approved previously for any of Company's interconnection customers.

Company may require Customer to pay for needed testing and approval of the equipment proposed to be installed to ensure compliance with applicable technical specifications, in their most current version, including: IEEE Standard 1547, Standard for Interconnection Distributed Resources with Electric Power Systems, for systems 10 MVA or less; and ANSI Standard C37.90, IEEE Standard for Relays and Relay Systems Associated with Electric Power Apparatus. Company may require Customer proposing noninverter-based interconnection to submit a power factor mitigation plan for Company review and approval.

9. Applications  
Company has filed a standard interconnection application form with the Washington Utilities and Transportation Commission ("Commission") which is included as an appendix to this Tariff. Customers seeking interconnection under this Schedule must complete the standard application form and submit it to Company. Company may reject a deficient application if it is not remedied within the timeframe established by WAC 480-108-030(6). Customer must pay a nonrefundable interconnection application fee, to be submitted with the application.

For facilities with a nameplate capacity rating of 0 to 25 kilowatts, the application fee is \$100.00.

For facilities with a nameplate capacity rating of 26 to 300 kilowatts, the application fee is \$500.00.

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(Continued)  
INTERCONNECTION TARIFF

**SPECIAL CONDITIONS: (continued)**

9. Applications (continued)  
Company must stamp all interconnection requests to document the date and time received. The original date and time stamp affixed to the Interconnection Request will serve as the beginning point for purposes of any timetables in the application and review process.

Upon receipt of the Interconnection Application, the Company must notify Customer within ten (10) business days whether the Interconnection Request is complete. If the application is not complete, Company must provide a written list detailing all additional information necessary to complete the application. Customer must supply the necessary information or request an extension of time within ten (10) business days. If Customer does not provide within ten (10) business days the listed information necessary to complete the application or request an extension of time, the Company may reject the application.

10. Company must comply with reasonable requests for information including relevant system studies, interconnection studies, and other materials useful for Customer to understand the circumstances of an interconnection at a particular point on Company's electric system, to the extent provision of such information does not violate confidentiality provisions of prior Company agreements. Prior to submitting an interconnection request, Customer may ask Company whether and how the proposed interconnection is subject to WAC Chapter 480-108. Company must respond to such request within fifteen (15) business days.

11. Interconnection Agreement, Review and Acceptance of Interconnection Agreements and Costs

A. Simplified Review Process

Once an application is accepted by Company as complete, the Company will review the application to determine if the Interconnection Request complies with the technical standards established in WAC 480-108-020 and to determine whether any additional engineering, safety, reliability or other studies are required. Company must notify Customer of the result of these determinations within thirty (30) Business Days of when the application is deemed complete.

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INTERCONNECTION TARIFF

**SPECIAL CONDITIONS: (continued)**

11. Interconnection Agreement, Review and Acceptance of Interconnection Agreements and Costs (continued)

A. Simplified Review Process (continued)

If Company notifies Customer that the request complies with the technical requirements established in WAC 480-108-020 and no additional studies are required to determine the feasibility of the interconnection, the Company must offer Customer an executable Interconnection Agreement within five (5) Business Days of such notification. Company also will provide any additional interim agreements, such as construction agreements, that may be necessary and a good faith estimate of the cost and time necessary to complete the interconnection. Customer must execute and return the completed agreement(s) within thirty (30) Business Days following receipt. Customer must simultaneously pay any deposit required by Company not to exceed fifty percent of the estimated costs to complete the interconnection.

B. Supplemental Review Process

If Company determines that additional studies are required to determine the feasibility of the interconnection, Company must notify Customer within thirty (30) Business Days of when the application is deemed complete and provide Customer a form of agreement that includes a description of what studies are required and a good faith estimate of the cost and time necessary to perform the studies. Within thirty (30) Business Days after the receipt of the agreement, Customer may supply an alternative cost estimate from a third-party qualified to perform the studies required by Company. After Company and Customer agree on the estimated cost of the required studies and the identity of the parties to perform the required studies Customer must execute and return the completed agreement within thirty (30) Business Days along with any deposit required by Company not to exceed the lower of \$1000, or fifty percent of the estimated study cost.

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**SPECIAL CONDITIONS: (continued)**

11. Interconnection Agreement, Review and Acceptance of Interconnection Agreements and Costs (continued)

B. Supplemental Review Process (continued)

Company will provide Customer with the results of the studies. If the studies determine that the interconnection is not feasible, Company will provide notice of denial to Customer and the reasons for denial.

If the studies determine that interconnection is feasible, Company will notify Customer and provide an executable interconnection agreement to Customer within five (5) Business Days of such notification. Company also will provide any additional interim agreements, such as construction agreements, that may be necessary and a good faith estimate of the cost and time necessary to complete the interconnection. Customer must execute and return the completed agreement(s) within thirty (30) Business Days following receipt. Customer must simultaneously pay any deposit required by Company not to exceed fifty percent of the estimated costs to complete the interconnection.

C. Customer's failure to execute and return completed agreements and required deposits within the time frames specified may result in termination of the application process by Company under terms and conditions stated in such agreements.

D. Customer shall be responsible for all reasonable costs incurred by Company to study the proposed interconnection and to design, construct, operate and maintain any required interconnection facilities or system upgrades all as required under the charges, terms and conditions stated in any study agreement(s) and interconnection agreement.

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**SPECIAL CONDITIONS: (continued)**

- 12. To ensure system safety and reliability of interconnected operations, all interconnected generating facilities must be constructed and operated in accordance with WAC Chapter 480-108 and all other applicable federal, state, and local laws and regulations. Prior to initial operation, Customer must submit a completed certificate of completion to Company, execute an appropriate interconnection agreement, and execute any other agreement(s) required for the disposition of the generating facility's electric power output as described in WAC 480-108-040(15).
- 13. Customer shall promptly furnish Company with copies of such plans, specification, records, and other information relating to the generating facility or the ownership, operation, use, Company access to, or maintenance of the generating facility, as may be reasonable requested by the Company from time to time.
- 14. For the purposes of public and working personnel safety, Company may immediately disconnect from Company's system any non-approved generation interconnections.
- 15. To ensure reliable service to all of Company's customers and to minimize possible problems for other customers, the Company will review the need for a dedicated-to-single-customer distribution transformer. If Company requires a dedicated distribution transformer, Customer must pay all reasonable costs of the new transformer and related facilities in accordance with WAC 480-108-040(13).
- 16. Metering  
  
Net metering for solar, wind, hydropower fuel cells and facilities that simultaneously produce electricity and useful thermal energy as set forth in chapter 80.60 RCW: Company will install, own and maintain a kilowatt-hour meter, or meters as the installation may determine, capable of registering the bi-directional flow of electricity at the point of common coupling at a level of accuracy that meets all applicable standards, regulations and statutes. The meter(s) may measure such parameters as time of delivery, power factor, voltage and such other parameters as Company specifies. Customer must provide space for metering equipment. Customer must provide the current transformer enclosure (if required), meter socket(s) and junction box after Customer has submitted drawings and equipment specifications for Company approval. Company may approve other generating sources for net metering.

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**SPECIAL CONDITIONS: (continued)**

- 16. Metering (continued)  
Production metering: Company may require separate metering, including, if necessary for safety or reliability, metering capable of being remotely accessed, for production. The meter will record all generation produced and may be billed separately from any net metering or customer usage metering. Costs associated with production metering will be paid by Customer.
- 17. Common labeling furnished or approved by Company and in accordance with NEC requirements must be posted on the meter base, disconnects and transformers informing working personnel that generation is operating at or is located on the premises.
- 18. Company must review and approve any future modification or expansion of an interconnected generating facility. Company may require Customer to provide and pay for corrections or additions to existing interconnection facilities if government or industry regulations and standards are modified. Company must notify Customer in writing of any such requirement. Company may terminate interconnection service if Customer does not within thirty (30) business days of the date of the notice arrange with Company a mutually agreed schedule to comply with such requirements.
- 19. For the overall safety and protection of Company's electrical system, chapter 80.60 RCW limits interconnection of generation for net metering to .25 percent of Company's peak demand during 1996 and, beginning in 2014, to .50 percent of the Company's peak demand in 1996. Additionally, interconnection of generating facilities for net metering to individual distribution feeders is limited to 10 percent of the feeder's peak capacity. Company also may restrict or prohibit new or expanded interconnected generation capacity on any feeder, circuit or network if engineering, safety or reliability studies establish a need for restriction or prohibition.
- 20. Customer is responsible for protecting its facilities, loads and equipment and complying with the requirements of all appropriate standards, codes, statues and authorities.

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**SPECIAL CONDITIONS: (continued)**

21. Charges by Company to Customer in addition to the application fee, if any, must be cost-based and consistent with generally accepted engineering practices. Such charges may include, but are not limited to, the cost of engineering studies; the cost of transformers, production meters, and Company testing, the cost of qualification, and approval of non-UL 1741 listed equipment; the cost of interconnection facilities, and the cost of any required system upgrades. Unless Company demonstrates by reference to its integrated resource plan prepared pursuant to WAC 480-100-238, its conservation targets pursuant to RCW 19.285.040, its studies performed under WAC 480-108-065, or other evidence that an interconnection will provide quantifiable benefits to Company's other customers, Company charges to Customer will include all costs made necessary by the requested interconnection service. Customer is responsible for costs associated with future upgrades or modifications to its generating facility or interconnection facilities made necessary by modifications Company makes to its electric system.

22. This Schedule does not govern the settlement, purchase or delivery of any power generated by Customer's generating facility. The purchase or delivery of power, including net metering of electricity pursuant to Chapter 80.60 RCW, power purchases and sales to PURPA qualifying facilities pursuant to Chapter 480-107 WAC, and other services that Customer may require will be covered by separate agreement or pursuant to the terms, conditions and rates as may be from time to time approved by the Commission. Any such agreement shall be completed prior to initial operation and filed with the Commission.

23. Customer may disconnect the generating facility at any time after providing reasonable advance notice to Company.

Customer must provide notice of the sale or transfer of Customer's generating facility, interconnection facilities or the premises upon which the interconnection facilities are located. To continue interconnection service to a new owner, the new owner must execute a new interconnection agreement.

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**SPECIAL CONDITIONS: (continued)**

24. Customer must obtain an electrical permit and pass electrical inspection for all generating and interconnection facilities before they can be connected or operating in parallel with Company's electric system. Company must receive written certification from Customer that the generating facility has been installed and inspected in compliance with the local building and/or electrical codes. Company must review and approve in writing the certificate of completion, before Customer's generating facility may be operated in parallel with Company's electric system. Company shall not unreasonably withhold such approval, but shall have the right to inspect and test the interconnection facilities in accordance with IEEE 1547.1 prior to parallel operation.

B. Generating Facilities with Nameplate Capacity Rating Greater than 300 kilowatts but no more than 20 megawatts.

1. Company offers interconnection service pursuant to that offered under the small generator interconnection provisions of Company's open access transmission tariff as approved by the Federal Energy Regulatory Commission ("FERC").

2. For purposes of Section B, "small generator interconnection provisions" means the procedural and technical requirements established by the Federal Energy Regulatory Commission ("FERC") in Standardization of Small Generator Interconnection Agreements and Procedures, Order No. 2006, 70 FR 34100 (June 13, 2005), FERC Stats. & Regs. ¶ 31,180 (2005) (Order No. 2006), order on reh'g, Order No. 2006-A, 70 FR 71760 (Nov. 30, 2005), FERC Stats. & Regs. ¶ 31,196 (2005), order on clarif'n, Order No. 2006-B, 71 FR 42587 (July 27, 2006), FERC Stats. & Regs. ¶ 61,046 (2006). "Small Generator Interconnection provisions" does not include the 10 kW inverter process required under the above-listed FERC regulations.

3. Interconnection service includes only the terms and conditions that governs physical interconnection to Company's delivery system and does not include sale or transmission of power by Customer or retail service to Customer or transmission service to Customer.

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CONTINUING SERVICE

This Schedule is based on continuing service at each service location. Disconnect and reconnect transactions shall not operate to relieve a Customer from any monthly charges.

RULES AND REGULATIONS

Service under this Schedule is subject to the general Rules and Regulations contained in the tariff of which this Schedule is a part, and to those prescribed by regulatory authorities.

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