

We appreciate your interest in Pacific Power's net metering program. Before purchasing any net metering equipment, we recommend you review the requirements for interconnecting a net metering system to Pacific Power's electrical distribution system. The requirements are found in the Interconnection Agreement.

To complete the process for a net metering interconnection, please follow the steps below:

1. Complete and submit the following to Pacific Power:
  - Interconnection Agreement including the Application for Net Metering Interconnection
  - The inverter specification sheet
  - A simple one-line diagram showing
    - The location of Pacific Power's meter
    - The location of the disconnect switch
2. Pacific Power will review your agreement and application and send you a written notification of approval either by mail or e-mail
3. install the net metering system after you receive the written approval of your Interconnection Agreement and Application for Net Metering from Pacific Power
4. Obtain an inspection of your net metering system by the local city or county electrical inspector
5. Submit the electrical inspector's approval to Pacific Power
6. Schedule an appointment to have the net meter set by calling 1-888-221-7070
7. Turn on your net metering system *after* Pacific Power provides you written notification the interconnection work has been completed

Return completed documents to:

Pacific Power  
Attn: Customer Generation  
825 NE Multnomah, Suite 600  
Portland, Oregon 97232

Or Email to:

[netmetering@pacificorp.com](mailto:netmetering@pacificorp.com)

Thank you for your interest in the net metering program. If you have questions, please call us toll free at **1-888-221-7070** and ask for a net metering specialist.

Service ID #:

Request #:

**PACIFIC POWER**  
**Interconnection Agreement for Net Metering Service**  
**California (up to 1000 kW)**

This Agreement dated this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between PacifiCorp doing business as Pacific Power ("Pacific Power"), and \_\_\_\_\_, ("Customer-Generator").

Whereas, Customer-Generator owns or intends to install and own an electric energy Generating Facility ("Generating Facility") qualifying for "Net Metering," Rate Schedule NEM-35, as given in Pacific Power's currently effective tariff as filed with the California Public Utilities Commission, on Customer-Generator's owned, leased or rented premises located at \_\_\_\_\_, California for the purpose of generating electric energy; and

Whereas, Customer-Generator wishes to sell and Pacific Power is willing to purchase energy produced by the Generating Facility.

Now, therefore, the parties agree:

1. **CUSTOMER-GENERATOR SHALL NOT INTERCONNECT THE GENERATING FACILITY TO PACIFIC POWER'S SYSTEM UNTIL PACIFIC POWER SENDS AND CUSTOMER-GENERATOR RECEIVES WRITTEN AUTHORIZATION IN THE FORM OF SECTION 3 OF APPENDIX A TO THIS AGREEMENT. THE PARTIES UNDERSTAND AND AGREE THAT INTERCONNECTION OF THE GENERATING FACILITY BY CUSTOMER-GENERATOR, ITS AGENTS, OR REPRESENTATIVES PRIOR TO RECEIPT OF PACIFIC POWER'S WRITTEN AUTHORIZATION WILL CREATE POTENTIAL SAFETY AND RELIABILITY ISSUES. CUSTOMER-GENERATOR HEREBY AGREES TO INDEMNIFY AND HOLD HARMLESS PACIFIC POWER AND ITS AGENTS, EMPLOYEES AND REPRESENTATIVES FROM ANY AND ALL CLAIMS, COSTS, DAMAGES OR LOSSES (INCLUDING, WITHOUT LIMITATION, ATTORNEYS' FEES) ARISING OUT OF ANY SUCH UNAUTHORIZED INTERCONNECTION BY CUSTOMER-GENERATOR.**
2. **Governing Law:** As amended from time to time, the California Public Utilities Code and Pacific Power's California tariffs on file with the California Public Utilities Commission ("Tariffs") are incorporated by reference and regulate this Agreement. In the event of any conflict between this Agreement and the Public Utilities Code and Pacific Power Tariffs (collectively "Governing Law"), the Governing Law shall control. Pacific Power shall furnish applicable provisions of the Public Utilities Code and its Tariffs upon request from the Customer-Generator.
3. **Generating Facility:** Customer-Generator's Generating Facility shall consist of a solar, wind, solar-wind hybrid, biogas or fuel cell facility designed for the production of electricity located on Customer-Generator's owned, leased or rented premises, with a capacity of not more than one thousand (1000) kilowatts. Said facility will be interconnected and operated in parallel with Pacific Power's transmission and distribution facilities, and is intended primarily to offset part or all of Customer-Generator's own electrical requirements. Customer-Generator's Generating Facility is more specifically described in Section 1 of Appendix A attached hereto, which is hereby incorporated into and made a part of this Agreement.
4. **Term and Termination:** This Agreement shall commence when signed by both Pacific Power and Customer-Generator and terminate with any change in ownership of the Generating Facility

or by written agreement signed by both parties. Pacific Power shall also have the right to terminate this Agreement as set forth in Section 11, "Disconnection," below.

5. **Definitions:** All capitalized terms not defined within this Agreement shall have the definitions established in the California Public Utilities Code or Pacific Power's Tariffs. In case of a conflict between the California Public Utilities Code and Pacific Power's Tariffs, the California Public Utilities Code shall control.
6. **Codes and Standards:** The Customer-Generator shall, at its sole expense, conform, operate and maintain the Generating Facility in accordance with all applicable codes and standards for safe and reliable operation. Among these are the National Electrical Code ("NEC"), National Electrical Safety Code ("NESC"), the Institute of Electrical and Electronics Engineers ("IEEE") Standards, American National Standards Institute ("ANSI"), and Underwriters Laboratories ("UL") Standards, and local, state and federal building codes as well as Pacific Power's Electric Service Requirements. The Customer-Generator shall strictly comply with Governing Law and all applicable codes and standards, shall be responsible for all costs associated with such compliance, and shall obtain any permit(s) required by any applicable code or standard for the installation of the Generating Facility on its property.
7. **Metering:** Pacific Power shall install a meter to measure the flow of electricity in each direction, at the expense of the Customer-Generator if the existing meter is not capable of measuring the flow of electricity in two directions (see PacifiCorp Schedule NEM-35, Special Conditions 2, 3 and 8). Customer-Generator shall provide, at its sole expense, adequate facilities, including, but not limited to, a current transformer enclosure (if required), meter socket(s) and junction box, for the installation of the meter and associated equipment.

Customer-Generator hereby consents to the installation and operation by Pacific Power, at Pacific Power's expense, of one or more additional meters to monitor the flow of electricity in each direction or to gather research data.

8. **Price and Payment:** An eligible residential or small commercial Customer-Generator shall be billed, at the end of the 12-month period following the date of Pacific Power's final interconnection of Customer-Generator's Generating Facility, and on the anniversary date thereafter, for electricity used during that period. Pacific Power shall determine if the eligible Customer-Generator was a net consumer or a net producer of electricity during that time period.

For all residential or small commercial Customer-Generators and for each monthly period, the net balance of moneys owed to Pacific Power for net consumption of electricity or credits owed to the Customer-Generator for net generation of electricity shall be carried forward until the end of each 12-month period.

If the electricity supplied by Pacific Power exceeds the electricity generated by the eligible residential or small commercial Customer-Generator, the Customer-Generator is a net energy consumer and shall be billed for the net electricity consumed.

If the electricity generated by the eligible Customer-Generator exceeds the electricity supplied by Pacific Power, the Customer-Generator is a net energy producer and Pacific Power shall retain any excess kWh generated during the prior 12-month period; no payment will be made to the Customer-Generator for the excess energy delivered to Pacific Power's grid.

Residential and small commercial Customer-Generators also shall be permitted to pay monthly for net energy consumed. All other net metering Customer-Generators shall pay monthly for net energy consumed.

9. **Interconnection:** Customer-Generator shall provide the interconnection facilities on Customer-Generator's side of the meter. At Customer-Generator's expense, Pacific Power shall make reasonable modifications to Pacific Power's system necessary to accommodate Customer-Generator's Generating Facility and to maintain quality service to Pacific Power's non-generating customers. The cost for such modifications is \$\_\_\_\_\_ due upon the Customer-Generator's signing of this Agreement.

The Generating Facility's nominal voltage and phase configuration shall be compatible with Pacific Power's electric system. Customer-Generator shall be responsible to protect Customer-Generator's facilities, personnel, loads and equipment.

Pacific Power may decline to interconnect the Generating Facility if the Customer-Generator fails to comply with any of the terms and conditions of this Agreement.

10. **Functional Standards:** Customer-Generator shall furnish, install, operate and maintain in good order and repair, all without cost to Pacific Power, all equipment required for the safe operation of the Generating Facility in parallel with Pacific Power's system. This equipment shall include, but not be limited to, equipment necessary to establish automatically and maintain synchronism with Pacific Power's electric supply. The Customer-Generator's Generating Facility shall at all times comply with all applicable power quality standards, including, but not limited to, IEEE Standard 519-1992 Harmonic Limits. The Customer-Generator's Generating Facility shall be designed to operate within allowable voltage variations of Pacific Power's system. The Customer-Generator's Generating Facility shall not cause any adverse effects upon the quality of service provided to Pacific Power's non-generating customers.

Customer-Generator shall provide evidence that the Generating Facility will never result in reverse current flow through Pacific Power's network protectors. The Generating Facility shall be designed to automatically disconnect from Pacific Power's system in the event of overload or outage of Pacific Power's supply, in compliance with NEC 445.10 and 705.40.

11. **Disconnection:** In addition to the automatic disconnection, Customer-Generator shall furnish and install on Customer-Generator's side of the kilowatt-hour meter a UL-approved safety disconnect switch which shall be capable of fully disconnecting the Customer-Generator's energy generating equipment from Pacific Power's electric system. The disconnect switch shall be clearly visible from the kilowatt-hour meter and located within three feet of the meter base. The disconnect switch shall be of the visible break type in a metal enclosure which can be secured by a padlock. The disconnect switch shall be accessible to Pacific Power personnel at all times and shall be identified with metal or plastic engraved signage in compliance with NEC 110.22 and 430.102.

Pacific Power's obligation to interconnect Customer-Generator's Generating Facility is expressly conditioned on Customer-Generator's installation of the disconnect switch described above, and Pacific Power's written acknowledgement that the safety disconnect switch is present as specified above is required before interconnection of the Generating Facility to Pacific Power's electric system.

Pacific Power shall have the right to disconnect the Generating Facility from Pacific Power's system at the disconnect switch: (a) when necessary to maintain safe electrical operating conditions; (b) if the Generating Facility does not meet required codes or standards; (c) if, in Pacific Power's sole judgment, the Generating Facility at any time adversely affects or endangers any person or property, Pacific Power's operation of its electric system, or the quality of Pacific Power's electric service to other customers; (d) in the event of Customer-Generator's failure to maintain its retail electric service account for the loads served at the Generating Facility as active and in good standing; or (e) in the event of Customer-Generator's breach of

any provision of this Agreement. In the event that Pacific Power disconnects the Generating Facility due to clauses (b), (d) or (e) above, Pacific Power may immediately terminate this Agreement, without liability to the Customer-Generator, by delivering written notice to the Customer-Generator of the failure to meet the required codes and standards, maintain account in good standing or other breach of this Agreement.

The Customer-Generator may disconnect the Generating Facility at any time, provided that the Customer-Generator provides reasonable advance written notice to Pacific Power.

12. **Safety:** The parties agree that all safety and operating procedures for joint use equipment shall be in compliance with the Occupational Safety and Health Administration Standard at 29 C.F.R. § 1910.269, the NEC, the NESC, the California Public Utilities Code and the equipment manufacturer's safety and operating manuals. The Customer-Generator shall post adjacent to the meter base and disconnects signage in accordance with NEC requirements 110.22, 230.2(e) and 705.10 that generation is operating at or is located on the premises.
13. **Installation and Maintenance:** Excepting only metering equipment owned by Pacific Power, all equipment on Customer-Generator's side of the point of delivery, including any required disconnect switch and synchronizing equipment, shall be provided, installed, and maintained in compliance with the equipment manufacturers' safety and operating specifications by Customer-Generator, and shall remain the property and responsibility of Customer-Generator. Pacific Power shall bear no liability for Customer-Generator's equipment or for consequences of its operation or mis-operation.
14. **Pre-Operation Inspection:** Interconnection and operation in parallel of any Generating Facility with Pacific Power's electric system is expressly conditioned upon (a) Customer-Generator obtaining an electrical permit and the Generating Facility passing an electrical inspection by the electrical inspector(s) having jurisdiction under applicable codes and standards and (b) the approval of a Pacific Power area engineer, if required.  
  
At least fifteen (15) calendar days prior to initial operation of the Generating Facility Customer-Generator shall provide to Pacific Power written code inspection approval certification, referenced as Certificate of Completion, that the Generating Facility and associated interconnection equipment has been installed and inspected in compliance with local and state building and/or electrical codes.
15. **Access:** Customer-Generator hereby grants Pacific Power's authorized employees the right to enter upon Customer-Generator's property for the purposes of operating the disconnect switch and meters and making additional tests concerning the operation and accuracy of its meters.
16. **Modification of Generating Facility:** Prior to any modification or expansion of the Generating Facility, the Customer-Generator shall obtain Pacific Power's approval and shall sign a modified Interconnection Agreement for the Generating Facility. Pacific Power reserves the right to require the Customer-Generator, at the Customer-Generator's expense, to provide corrections or additions to existing Interconnection Facilities as required to comply with the then current Codes and Standards.
17. **Assignment:** The Customer-Generator shall notify Pacific Power prior to the sale or transfer of the Generating Facility, the Interconnection Facilities or the premises upon which the facilities are located. The Customer-Generator shall not assign its rights or obligations under this Agreement without the prior written consent of Pacific Power, which consent shall not be unreasonably withheld.

18. **Limitation of Liability:** Either party may exercise any or all of its rights and remedies under this Agreement and Governing Law. Pacific Power’s liability for any action arising out of its activities relating to this Agreement or Pacific Power’s electric utility service shall be limited to repair or replacement of any non-operating or defective portion of Pacific Power’s electric utility facilities. Under no circumstances shall Pacific Power be liable for any economic losses, costs or damages, including but not limited to special, indirect, incidental, consequential, punitive, or exemplary damages.
19. **Multiple Counterparts:** This document may be executed in one or more counterparts, whether electronically or otherwise, and each counterpart shall have the same force and effect as an original document and as if all the Parties had signed the same document.
20. **Merger; Amendment and Waiver:** This contract contains the entire agreement between Customer-Generator and Pacific Power and may not be amended or changed except by writing signed by both Customer-Generator and Pacific Power. No provision of this contract will be deemed to have been waived unless such waiver is contained in a writing signed by the waiving party. No failure by any party to insist upon the strict performance of any provision of this Agreement, or to exercise any right or remedy consequent upon a breach thereof, shall constitute a waiver of any such breach of such provision or of any other provision. No waiver of any provision of this Agreement shall be deemed a waiver of any other provision of this Agreement or a waiver of such provision with respect to any subsequent breach, unless expressly provided in writing.

In witness whereof, Pacific Power and Customer-Generator have, by their duly authorized representatives, executed this agreement in duplicate as of the day and year first above written.

**Customer-Generator**

**Pacific Power**

By: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Title: Generation Facility Owner

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

**APPENDIX A**

**PACIFIC POWER NET METERING APPLICATION**

**Section 1: For Pacific Power Use Only**

Customer Name: \_\_\_\_\_  
Service Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Customer Account No. & Request No.: \_\_\_\_\_

**Section 2: To Be Completed By Customer**

**A. Applicant Information**

Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Site Street Address (if different from above): \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Daytime Phone: (\_\_\_\_\_) \_\_\_\_\_ Fax: (\_\_\_\_\_) \_\_\_\_\_  
Email: \_\_\_\_\_

**B. System Information**

System Type:  Solar  Wind  Hydro  Other (Specify): \_\_\_\_\_  
Generation Nameplate Capacity: \_\_\_\_\_ kW (Combine DC total of wind turbines, solar panels, etc)  
Inverter Controlled:  Yes  No  
Inverter Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_ Number of Inverters: \_\_\_\_ Rating: \_\_\_\_\_ kW  
Manufacturer Nameplate Inverter Total AC Capacity Rating: \_\_\_\_\_ kW  
Inverter(s):  Single Phase  Three Phase  Multiple Single Phase Connected on Poly-phase (three phase) system (Attach Inverter and Panel Technical Specifications Sheets)  
Type of Service:  Single Phase  Three Phase  
If Three Phase:  
 120/208 Volts, 4 wire  120/240 Volts, 4 wire  277/480 Volts, 4 wire  Other (Please Specify Voltage and Number of Service Wires): \_\_\_\_\_  
Meets IEEE standard 1547 & UL Subject 1741 requirements:  Yes  No  
Will the net metering facility interconnect to a switchgear?  Yes  No  
Net metering facility available fault duty at the point of common coupling: \_\_\_\_\_

Customer to provide a simple one-line diagram that shows the location of the disconnect switch and Pacific Power meter.

Customer must post metal or plastic engraved signage indicating on-site generation in accordance with National Electric Code. The signage must be permanent and located adjacent to the meter base and disconnect switch noting "Parallel Generation on Site" and identifying the manual disconnect switch with the words "Manual Disconnect for Parallel Generation." \_\_\_\_ (Initial Here)

Electrical Inspection approval date (attach copy or provide to utility when obtained): \_\_\_\_\_

Anticipated Operational Date of Net Metering Facilities: \_\_\_\_\_

### **C. Additional Information**

1. An equipment package will be considered certified for interconnected operation if it has been submitted by a manufacturer to a nationally recognized testing and certification laboratory, and has been tested and listed by the laboratory for continuous interactive operation with an electric distribution system in compliance with the applicable IEEE and UL 1741 standards.
2. If the equipment package has been tested and listed as an integrated package, which includes a generator or other electric source, the equipment package will be deemed certified, and Pacific Power will not require any further design review, testing or additional information.
3. If the equipment package includes only the interface components (switchgears, inverters, or other interface devices), an interconnection applicant must show that the generator or other electric source being utilized with the equipment package is compatible with the equipment package and consistent with the testing and listing specified for the package. If the generator or electric source being utilized with the equipment package is consistent with the testing and listing performed by the nationally recognized testing and certification laboratory, the equipment package will be deemed certified and Pacific Power will not require further design review, testing or additional equipment.
4. A net metering facility must be equipped with metering equipment that can measure the flow of electricity in both directions and comply with ANSI C12.1 standards. Pacific Power will install the required metering equipment at Pacific Power's expense.
5. Pacific Power will not be responsible for the cost of determining the rating of equipment owned by the customer-generator or of equipment owned by other local customers.
6. Customer may operate the Net Metering Facility temporarily for testing and obtaining inspection approval. Customer shall not operate the Net Metering Facility in continuous parallel without an executed Interconnection and Net Metering Service Agreement, and approval from Pacific Power.

### **D. Customer Acknowledgment**

I certify that the information provided in this Application is true. I will provide Pacific Power a copy of the signed government electrical inspection approval document when obtained, if not already provided with this Application.

I agree to abide by the terms of this Application and I agree to notify Pacific Power thirty (30) days prior to modification or replacement of the System's components or design. Any such modification or replacement may require submission of a new Application to Pacific Power.

I agree not to operate the Net Metering Facility in parallel with Pacific Power, except temporarily for testing and obtaining inspection approval, until this Application is approved by Pacific Power,



until this agreement is signed by both parties, and until I have provided Pacific Power with at least five (5) days notice of anticipated start date.

Customer or Applicant Signature & Date: \_\_\_\_\_

**Please send completed application to:**

Pacific Power  
Attn: Customer Generation                      or                      Please scan the completed application and email  
825 NE Multnomah St, Suite 600                      [netmetering@pacificcorp.com](mailto:netmetering@pacificcorp.com)  
Portland, Oregon 97232  
Phone: 888-221-7070

**Section 3: To be completed by the System Installer**

**Installation Contractor Information/Hardware and Installation Compliance**

Installation Contractor (Company Name): \_\_\_\_\_

Contractor's License No.: \_\_\_\_\_ Proposed Installation Date: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Daytime Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

For inverter-controlled system, meets IEEE Standards and UL 1741 Inverters, Converters, and Controllers for use in Independent Power Systems:  Yes  No

If Photovoltaic System, System must be installed in compliance with IEEE Standards, Recommended Practice for Utility Interface of Photovoltaic Systems. All System types must be installed in compliance with applicable requirements of local electrical codes, Pacific Power and the National Electrical Code® (NEC) and must use an anti-islanding inverter.

The System must include a manual, lockable, load-break (disconnect) switch that is accessible at all times to Pacific Power personnel and located within 10 feet of Pacific Power's meter.

If the Net Metering Facility is designed to provide uninterruptible power to critical loads, either through energy storage, back-up generator, or the generation source, the Net Metering Facility will include a parallel blocking scheme for this backup source. This function may be integral to the inverter manufacturer's packaged system.

Does the Net Metering Facility include a parallel blocking scheme:  Yes  No

**Signed (Contractor):** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Name (Print):** \_\_\_\_\_

**Section 4. To be completed by Pacific Power:**

**A. If approving the application:**

Pacific Power 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 System to Pacific Power electrical system equipment or facilities.

Customer entered into an Interconnection Agreement for Net Metering Service with Pacific Power on the \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

Customer satisfactorily passed Witness Tests on the \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

(Pacific Power may waive Witness Tests at its option; if tests are waived initial here \_\_)

This Application is approved by Pacific Power on this \_\_\_\_ day of \_\_\_\_\_, 20\_\_

Pacific Power Representative Name (Print): \_\_\_\_\_

Signed (Pacific Power Representative): \_\_\_\_\_ Date: \_\_\_\_\_

**B. If denying the application:**

This application is denied by Pacific Power on this \_\_\_\_ day of \_\_\_\_\_, 20\_\_ for the following reason(s): \_\_\_\_\_

Pacific Power Representative Name (Print): \_\_\_\_\_

Signed (Pacific Power Representative): \_\_\_\_\_ Date: \_\_\_\_\_

Applicant may submit a new application for Level 2 review.

**Section 5: To be completed by Pacific Power Meterman**

Customer Account No. \_\_\_\_\_ Site ID No. : \_\_\_\_\_

Served from Facility Point No.: \_\_\_\_\_

New Net Meter No.: \_\_\_\_\_ Date net meter installed: \_\_\_\_\_

Manual disconnect required: Yes No Proper location & permanent signage in place: Yes No

Signature/Title: \_\_\_\_\_ Date: \_\_\_\_\_