

Request for Information & Qualifications  
Level 2 Electric Vehicle Supply Equipment  
Qualified Products List

**Transportation Electrification Pilot Program**

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## About Pacific Power

Pacific Power d/b/a PacifiCorp (the Company) is one of the West's leading energy companies, serving 1.9 million households and businesses in six states. As the second largest owner of wind energy resources among regulated utilities, we deliver reliable, low-cost, and increasingly renewable energy through our two divisions: Pacific Power in Oregon, Washington, and California, and Rocky Mountain Power in Utah, Idaho, and Wyoming.

Pacific Power serves roughly 600,000 customers in over 200 communities across the state of Oregon. This diverse and widespread service area covers 21,292 square miles and touches each of the state's four borders. While the Company serves roughly 75,000 customers in North and Northeast Portland, the majority of Pacific Power customers live in smaller communities and more rural areas. Pacific Power's service area across California and Washington is likewise rural and dispersed. With roughly 45,000 customers in California and 130,000 customers in Washington.

We are dedicated to helping customers and communities thrive by delivering an energy future that is reliable, affordable, sustainable, and safe. To do this, we work to protect and enhance the environment by conserving natural resources, reducing emissions, and protecting wildlife and habitat. We shape forward-thinking policies and innovative solutions to improve the livability of customers' hometowns and neighborhoods. We take pride in being an active member in the communities we serve, always striving to make the place our customers call home a better place to live.

The recent approval of three transportation electrification pilot programs by the Public Utility Commission of Oregon<sup>1</sup> marks another milestone in moving towards cleaner energy and transportation options set in motion by the landmark 2016 Clean Electricity and Coal Transition Act (SB 1547). The pilot programs are a small part of a comprehensive effort by Pacific Power to provide a cleaner energy future for customers.

## General Overview

This Request for Information and Qualifications (RFI/Q) is related to Level 2, 240-volt electric vehicle supply equipment (EVSE) technologies, products, features, functions, standards, and interoperability. The purpose of this RFI/Q is to obtain information that will assist Pacific Power in identifying viable charging solutions for the utility's pilot program(s) and inform the future development of one or more qualified product lists (QPLs).

## Information Requested

This is not a pre-qualification or a request for quotations, tenders, or proposals. Responses received will not be evaluated or ranked, nor used to screen, pre-qualify, or select respondents for any potential subsequent solicitation. This RFI/Q is solely for information sharing and gathering purposes only. Interested suppliers ("Respondents") are encouraged to submit responses ("Responses") to this RFI/Q in the form of the attached *Appendix C – Requested Information*. Respondents are asked to answer all questions, and to be as detailed as practical given the nature of the RFI/Q process. Pacific Power reserves the right, in its sole and absolute discretion, to seek additional information and/or clarifications relevant to any Response received from any interested suppliers at any time. Submission of a Response

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<sup>1</sup> Order No. 18-075 in Docket UM 1810, February 27, 2018.

is entirely voluntary and failure to submit a Response will in no way prejudice a party's ability to participate in any subsequent procurement process or program that Pacific Power may issue for EV charging technologies or other similar projects. Similarly, neither the submission of a Response to this RFI/Q, nor the use by Pacific Power of any information contained in any Response, will disqualify an interested supplier from participating in any future procurement process or program.

## Use of Information

Pacific Power intends to use the information provided by Respondent(s) to inform technical and commercial considerations regarding product alternatives. No contract or other benefit will be awarded on the basis of the information provided and this RFI/Q is not intended to create any contractual or other legal obligations on the part of Pacific Power. Respondents should further note that, while this RFI/Q is focused on technology solutions for EV Level 2 charging, information submitted by Respondents may be used by Pacific Power in developing its strategies for other programs or projects. With the information obtained through this RFI/Q, Pacific Power expects to: a) Determine the level of interest and availability in the marketplace for providing solutions that meet the requirements outlined in **Appendix B – EVSE Minimum Requirements**; b) Assess the viability of the requirements outlined in Appendix B using the information submitted in **Appendix C – Requested Information**; c) Obtain feedback and suggestions for the program; and, d) Further refine and clarify the requirements and/or specifications.

## RFI/Q Process

All Responses received before the closing time will be evaluated by the Pacific Power Transportation Electrification team. Third party representatives may also be engaged to review the information provided.

## Submitting Responses

Responses should be delivered electronically to [Kate.Hawley@pacificcorp.com], with the subject line reading "Level 2 EVSE Qualified Products List Response." Pacific Power reserves the right to not consider Responses received through other means at its sole discretion. All questions regarding this RFI/Q should be submitted to Steven.Alaman@pacificcorp.com.

Respondents are solely responsible for the risk and cost of preparing and submitting Responses. Pacific Power shall not be responsible for any liabilities, costs, expenses, losses, or damages incurred or suffered by any Respondent by reason of its participation in this RFI/Q process. The information contained in this RFI/Q is for information purposes only and is not intended to be relied upon by Respondents. Pacific Power makes no representations or warranties, express or implied, as to the accuracy or completeness of such information. Submission of Response to this RFI/Q is not intended to create any contractual or other legal obligations or duties whatsoever owed to any Respondent by Pacific Power, including any obligation or duty to consider or utilize a Response, or to issue any subsequent procurement process or program qualification. Without restricting the generality of the foregoing, no contractual relations shall exist between Pacific Power and any Respondent in the absence of execution of a contract with that Respondent, except that by submitting a Response to this RFI/Q the Respondent acknowledges and accepts the terms and conditions of this RFI/Q.

All Information, including any documents submitted to Pacific Power by a Respondent in connection with this RFI/Q, becomes the property of Pacific Power and will not be returned to Respondents.

Respondents will not, without the prior written permission of Pacific Power, use, reproduce, or distribute all or any part of the RFI/Q documents, or any information included in or provided with or in connection with this RFI/Q, for any purpose other than preparing a Response.

## **RFI/Q Responses**

Responses should be limited to the information requested in Appendix C and submitted as a digital copy. Any other details Respondents may wish to provide in support of the information contained in Appendix C – including evidence of third-party product testing and performance validation – may be submitted as additional attachments but are not required.

## **Appendices & Attachments**

**Appendix A-** Pacific Power Service Area Map

**Appendix B-** EVSE Minimum Requirements

**Appendix C-** Requested Information

Appendix A- Pacific Power Service Area Map



[https://www.pacificpower.net/content/dam/pacific\\_power/doc/Business/POnly-Big-ServiceAreaMap-2015-NoFacilities.pdf](https://www.pacificpower.net/content/dam/pacific_power/doc/Business/POnly-Big-ServiceAreaMap-2015-NoFacilities.pdf)

## Appendix B- EVSE Minimum Requirements

### Equipment requirements:

- Certified by the Underwriters Laboratories, Inc., ETL listed or equivalent
- Rated for outdoor usage, NEMA 3R or 4, operating temperature range of 0 to 122F
- Society of Automotive Engineers J-1772 standard charging plug connector
- Reach range and controls in compliance with the Americans with Disabilities Act (ADA)
- Light up screen viable during day, night, and twilight hours
- UV resistant, NEMA 4 or equivalent.
- Level 2 charging (minimum of 7.2 kW at 240/208 volts)
- Compliant with National Electrical Code, Article 625

### Reporting requirements:

- Network enabled, capable of collecting customer's charge data and communicating
- Provide an event level data set of vehicle charging events via secure portal
- Complete data set must be available in a downloadable \*.csv or \*.xls format
- Session level data must include:
  - o Charge station ID
  - o Unique transaction #
  - o Unique customer #
  - o Payment method
  - o Sales amount
  - o Fees charged
  - o Vehicle Connect Time
  - o Vehicle Disconnect Time
  - o Charge Start Time/Date
  - o Charge End Time/Date
  - o Peak session kW
  - o Total session kWh
  - o Real-time availability of EVSE, e.g., online, offline, charging, connected, etc.

### User payment requirements:

- Must accept the following payment options:
  - o Phone for credit/debit
  - o Mobile app or virtual wallet
  - o Credit card/tap at station
- Must be able to adjust charging fees as required by Pacific Power
- Phone support for customers making payments

### Other requirements:

- Phone support and remote troubleshooting for site hosts
- No advertising beyond charger manufacturer and/or utility name
- Open Charge Point Protocol version 1.6 or higher
- Demand response capable (Open ADR 2.0b, IEEE 2030.5, or equivalent)
- Compliance with the U.S. Environmental Protection Agency's ENERGY STAR®

### Appendix C - Requested Information

General Information
Manufacturer
Model Name
Model Number(s)
Mounting Options (wall, pole, pedestal, other)
Port Count Options

Product Specifications
Input voltage (VAC)
Input current (A)
Input circuit breaker size (A)
Output power at 240V AC (kW)
Wiring options (hardwired and/or plug-in)
Operating temperature range (deg F)
Altitude rating (ft)
Humidity rating (%)
Metering accuracy (+/-%)
Dimensions (inches H x W x D)
Shipping weight (lbs)
Installed weight (lbs)
Cable length options (ft)
Cable management options (if yes, describe in Notes section)

Standards Compliance
EnergyStar certified
Minimum rating of NEMA Type 3R or 4
Compliant with SAE J1772
Listed by a nationally recognized test lab to the requirements of UL 2251 (Standard for Plugs, Receptacles, and Couplers for Electric Vehicles)
Listed by a nationally recognized test lab to the requirements of UL 2594 (Standard for Electric Vehicle Supply Equipment)
ANSI C12.1 certified metering (minimum accuracy class of 0.2)
Compliant with FCC Part 15
Compliant with recommended practice SAE J2894/1_201112 or later (Power Quality Requirements for Plug-In Electric Vehicle Chargers)
Compliant with ISO/IEC 15118
Compliant with National Electric Code, NFPA 70 article 625
Compliant with the Americans with Disabilities Act (ADA)
Compliant with the Buy American Act
Compliant with other open and/or voluntary protocols (e.g., Plug&Charge)



<b>Network Communications</b>
Cellular connection (CDMA or GPS/GSM/GPRS; 4G or better)
Wi-Fi connection (802.11x)
Ethernet connection
Embedded modem
Compliant with Open Charge Point Protocol (OCPP) v1.6 or later
Certified by Open Charge Point Alliance program
Remotely upgradeable to support future versions of OCPP
Compliant with IEEE 2030.5 (SEP 2.0)

<b>Payment Hardware</b>
RFID reader compliant with ISO/IEC 18000-2; ISO 14223; ISO 15693; ECMA-340; ISO/IEC 18092; ISO/IEC 1443A; ISO/IEC 14443
NFC (Apple Pay, contactless credit card, etc.)
Swipe credit card reader

<b>Customer Support</b>
Standard hardware warranty (years)
Vandalism mitigation (if yes, describe in Notes section)
Ultraviolet (UV) resistant display, user interface, etc.
Stock available today
Lead time (weeks)

<b>Hardware-Specific Service Capabilities (if different from what is provided on Business Information tab)</b>
Site Acquisition and Pre-Installation (if yes, describe in Notes section)
Installation and Commissioning (if yes, describe in Notes section)
Monitoring and Management (if yes, describe in Notes section)
Operations and Maintenance (if yes, describe in Notes section)
EV Driver Support (if yes, describe in Notes section)
Site Host Support (if yes, describe in Notes section)
Third Party Installer Support (if yes, describe in Notes section)
Training Programs (if yes, describe in Notes section)