

# **Host Site Specifications for West Coast Green Highway Electric Vehicle Fast Charging Stations**

## **Purpose**

The states of Washington, Oregon and California, and the Province of British Columbia, are collaborating on deployment of electric vehicle fast-charging stations at key locations throughout the Interstate 5/Highway 99 corridor. Consumers considering the purchase of an electric vehicle (EV) need assurances that charging stations will be located where the services are most needed. They will also expect charging stations to be safe, convenient, reliable, easily identified, simple to use, and any fees collected for the service fairly priced. Finally, consumers will expect consistency in their EV charging experience from station to station, regardless of governmental jurisdiction.

To ensure consumer expectations are met, the states and province have developed the following specifications to be used in screening and selecting host sites for state government-sponsored electric vehicle charging equipment that is intended to provide electric vehicle charging services to support interurban, interstate or interregional travel.

Host sites are locations that are under public jurisdiction or private business ownership and control, that are interested in partnering with the state for the installation and operation of electric vehicle charging equipment on their property. The criteria below relates to the minimum qualifications of these potential site locations, based on physical characteristics and services offered on the property. Additional criteria related to the qualifications of the prospective business partner (such as financial viability, accounting and/or cash management controls, etc.) are covered in other sections.

## **Part I: Minimum Eligibility Requirements (pass/fail criteria)**

### **1.0 Host Site Eligibility**

All prospective host sites, whether public or privately owned, must:

1. Comply with all laws, state and federal, that prohibit the discrimination of persons on the basis of race, religion, color, age, sex, national origin, or disability;
2. Be fully licensed and approved to provide all services offered;

### **1.1 Location Relative to the Interstate/Interurban Highway**

Host sites shall be located within a half mile from a highway interchange. If no locations are available to serve as host sites within a half mile radius, sites within one mile of the interchange may be considered.

### **1.2 Site Accessibility**

Host sites must be easily accessible via a route that can safely and conveniently accommodate electric vehicles of the types, sizes and weights that would be traveling to the facility, entering and leaving the facility, returning to the interstate highway, and continuing in the original direction of travel.

### **1.3 Site Layout**

Host sites must have physical geometry of the site layout, including parking areas and ingress/egress points, that can safely and efficiently accommodate movements into and out of the site, onsite circulation, and parking by passenger vehicles and light duty trucks.

#### **1.4 Site Facilities**

Host sites must have restrooms available to the public at all times of operation. Restrooms must be modern, sanitary and have drinking water. The restrooms and drinking water should be available at no charge or obligation.

#### **1.5 Site Hours of Operation and Staffing**

Host sites must be open for operations at least 17 consecutive hours (e.g., 6 a.m. to 11 p.m.), each day of the week. Host sites must be staffed by at least one person on duty, who is available to render assistance to disabled persons if necessary.

#### **1.6 Site Parking**

The host site must have adequate paved parking spaces available to render electric charging services. These spaces (or charge stations) must be adequately lit, and in a location safe from traffic circulation and ingress/egress points.

#### **1.7 Site Shelter**

The host site must provide a location offering shelter from inclement weather for drivers to wait while their electric vehicle is charging.

#### **1.8 Signage**

A host site must comply with the state's policies, procedures and project-related rules concerning signage, including but not limited to signage and advertising that touches or concerns the electric vehicle charging station, nearby interpretive signage, directional signage, use of logos, advertising, etc.

#### **1.9 Combination or Cooperative Sites**

In cases where no single host site near an interchange meets all of these eligibility criteria, the criteria may be met by a combination of two or more businesses located in close proximity to each other and easily accessible on foot from each other's parking lots via pedestrian walkways compliant with the ADA and that do not require crossing a public highway.

### **Part II: Desirable Features for Host Sites (scoring criteria)**

#### **2.0 Availability and Capacity of Electric Power Supply**

Host sites must have 480V 3-phase power available nearby, and the transformer must have adequate capacity to serve DC Fast Charger(s). The comparative ease of extending power to the preferred charging site, or the willingness of the host to share in the cost may be a decisive factor in siting Fast-Charge stations.

Scoring: Maximum score of 60 points. Methodology: 60 minus the cost estimate to connect to power supply, rounded to nearest thousand dollars.

**Example A:** 3-phase power supply must be brought across major roadway to the host site. Cost estimate: \$45,000. Points: 60 minus 45 = 15 points.

**Example B:** 3-phase power nearby, but transformer must be upgraded. Cost estimate: \$5,000 for power supply, and \$6,000 for transformer. Points: 60 minus 11 = 49 points.

**Example C:** Host site sponsor will cover all cost of electric supply for DC Fast Charger. Cost estimate: \$0. Points: 60 – 0 = 60 points.

## **2.1 Public Amenities**

Host sites that offer products and ancillary services to the public while charging will be preferred. Preference points may be awarded to candidate sites as follows:

### **Comfort and Convenience Amenities (25 points maximum)**

Variety of consumer options such as: Vending, snacks, fast food and/or full service restaurants within safe walking distance of the charging station; traveler information (tourist, hotels, maps); reading/entertainment in waiting area; retail shopping; etc.

### **Location and Operation Amenities (25 points maximum)**

Public telephone; inside seating and heated shelter; additional proximity to the highway interchange; extended hours open to the public per day beyond the 17 hour requirement; etc.

