

# Funding Electric Vehicles and EV Infrastructure

## – The business case for EVs and EVSEs

### Level 1 and Level 2 EVSEs

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# EVSE - What is it?

- EVSE = Electric Vehicle Supply Equipment
  - Also commonly called a Charging Station
- A safe and manageable interface between grid power, the user, and the vehicle
- Primary function is electrical safety
- AC power pass through to the vehicle for charging
- SAE-J1772 - Communication and connector standard



ClipperCreek / CS-40  
Palm Desert, CA  
2012



# Level 1 and Level 2 EVSEs

## Level 1

- 120V supply power
- Up to 16A current transfer
- 1.9 kW max
- Recharge times 6 – 45 hours depending on the vehicle
- Price Point – Starting at \$495

## Level 2

- 208/240V supply power
- Up to 80A current transfer
- 19.2 kW max
- Recharge times 2 – 8 hours depending on the vehicle
- Price Point – Starting at \$495



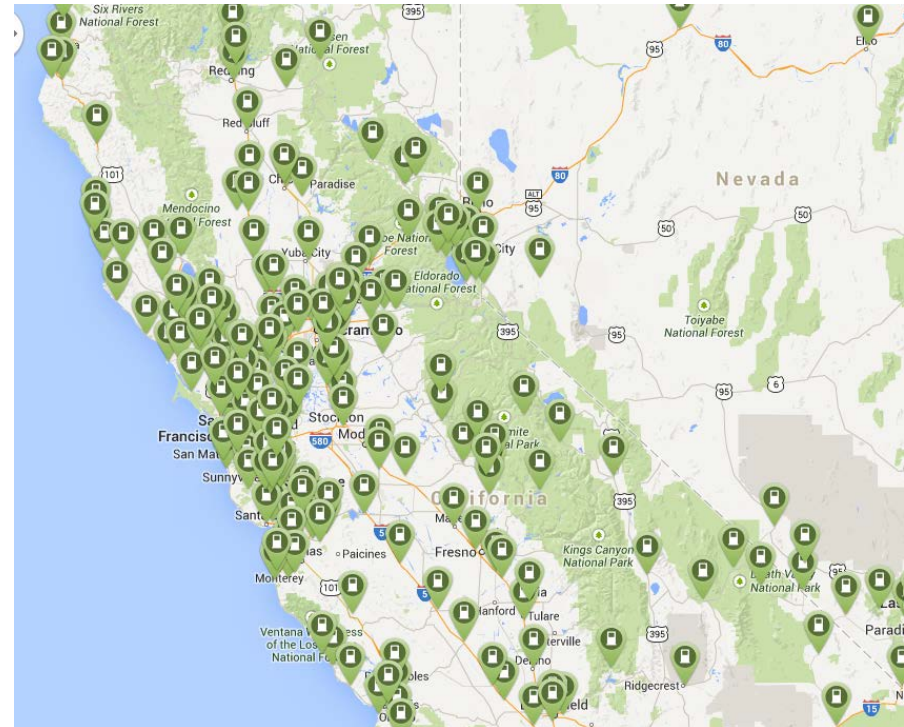
ClipperCreek / CS-40  
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2011



# Where to find public EVSEs

There are several station location services available

- Plugshare.com / Recargo
- DOE Alternative fuel station locator
  - <http://www.afdc.energy.gov/locator/stations/>
- And many more



Plugshare.com – Public station search 2014



# Infrastructure costs of installing new EVSEs

Cost to install new EVSEs varies widely

## Some things to consider for the best value:

When adding to pre-existing locations

- Available power
- Proximity to supply power

Planning EVSEs at new construction sites

- Put the electrical infrastructure in with the build
- Plan for locations to be near a power source



New install – Twin Pads arena – OT Canada



# What locations make sense

## 1. Locations with available electrical infrastructure

- Available electrical infrastructure can drastically reduce total cost of installation for EVSEs

## 2. Locations where people will park for at least 30 minutes

- Retail setting, malls and strip malls
- Restaurants
- Recreation destinations
- Hotels
- Parking garages
- Workplace



Squaw Valley Ski Resort, CA



# CLIPPERCREEK, INC.

INNOVATIVE INFRASTRUCTURE FOR  
ELECTRIC AND HYBRID VEHICLES

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## Thank You

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