



ELECTRIC VEHICLE CHARGING INFRASTRUCTURE

L1

The majority of EVs are sold with a portable Level 1 (L1) charger that can be plugged into a standard 110/120v wall outlet, which are commonly found in residential settings. L1 charging is sufficient for drivers that do not fully deplete their battery daily and that plug-in their vehicle overnight or extended periods of time.

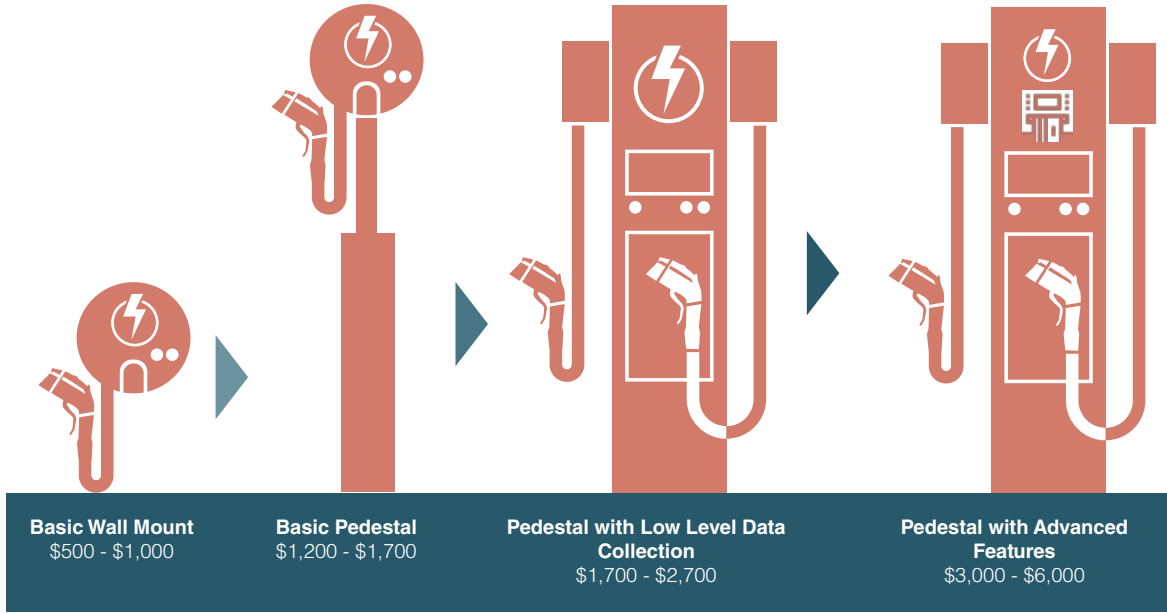
L2

Level 2 (L2) EVCS are commonly found in residential, commercial, and workplace settings. Units offer higher power output and faster charging than L1 chargers. L2 chargers are either networked or non-networked; networked unit functionality may include access control, usage reporting, payment collection, and load balancing, resulting in a higher unit cost.

DCFC

Direct Current Fast Chargers (DCFC) are the highest-powered and fastest charging EVCS. They are often used as range extenders along major travel corridors (high mileage drivers) and in urban environments to support drivers without home charging. These chargers are ideal for locations where a driver would spend 30 minutes to an hour.

LEVEL 2 CHARGER TYPES & COSTS





	L1	L2*	DCFC
Input Voltage	110/120v	208/220/240v	200-600v
Cost	\$350-\$1,500	\$380-\$4,000	\$25,000-\$50,000
Range per Hour of Charge	3.5-6.5 miles	14-35 miles	100-200 miles

**Networked and non-networked*

RESOURCES

UTILITIES

Liberty Utilities Electric Vehicle Program

<https://california.libertyutilities.com/portola/residential/evolve/electric-vehicle-program.html>

Pacific Gas & Electric EV Charge Network

https://www.pge.com/en_US/business/solar-and-vehicles/your-options/clean-vehicles/charging-stations/ev-charge-network.page

VENDORS

Plug In America - Get Equipped

<https://pluginamerica.org/get-equipped/>

Pacific Gas & Electric Approved Program Vendors

https://www.pge.com/en_US/business/solar-and-vehicles/your-options/clean-vehicles/charging-stations/program-participants/approved-program-vendors.page

WORKPLACE

Amping Up California Workplaces

http://www.veloz.org/wp-content/uploads/2017/07/WPC_Report4web.pdf

CHARGERS

PlugStar

<https://plugstar.zappyride.com/chargers>

