

Levels of EV Charging



Level 1

VOLTAGE
120V 1-Phase AC

AMPS
12–16 Amps

CHARGING LOADS
1.4 to 1.9 KW

CHARGING TIME
3–5 Miles of Range Per Hour

PRICE PER MILE
2¢–6¢ per mile



Level 2

VOLTAGE
208V or 240V 1-Phase AC

AMPS
12–80 Amps (Typ. 32 Amps)

CHARGING LOADS
2.5 to 19.2 KW (Typ. 7 KW)

CHARGING TIME
10–20 Miles of Range Per Hour

PRICE PER MILE
2¢–6¢ per mile



Level 3 (DC Fast Charge)

VOLTAGE
208V or 480V 3-Phase AC

AMPS
<125 Amps (Typ. 60 Amps)

CHARGING LOADS
<90 KW (Typ. 50 KW)

CHARGING TIME
80% Charge in 20–30 Minutes

PRICE PER MILE
12¢–25¢ per mile

Lifewire

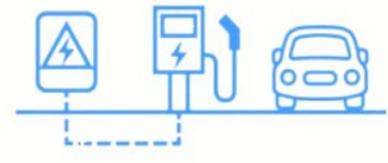
EV READINESS



EV Capable



EV Ready



EV Installed

EV Infrastructure Requirement	During New Construction	During Retrofit	Savings
EV-Capable (panel capacity + raceway)	\$300 per space	\$2,500 per space	\$2,200 per space
EV-Ready (full circuit)	\$1,300 per space	\$6,300 per space	\$5,000 per space

EV CHARGING ORDINANCE BASICS

- Adds Definitions
 - **EV-capable:** Conduit to every required space (0.75” to 1 space, 1.25” for 2+ spaces), panel capacity of 6.6 kW for every group of 4 required spaces.
 - **EV-ready:** EV-capable + dedicated branch circuit terminated in junction box, 240V outlet or EV charging unit
 - **EV-installed:** EV-ready + charger capable of Level 2 charging
- Adds a step to site plan application. Applicants must now specify location/number of employee parking spaces.
- Requires new or reconstructed parking structures/lots of 5+ parking spaces add EV-capable infrastructure and lots of 25+ spaces add EV-installed infrastructure according to this table:
Note: reconstructed is defined as full-depth reclamation (digging down deep)

Land Use	EV-capable parking spaces	EV-ready parking spaces	EV-installed parking spaces
11+ Unit Dwelling Units	1 space per unit	-	10%
Lodging, including Extended Stay Hotels	40%	-	10%
Non-Residential, Non-Employee Parking	20%	-	5%
Employee Parking	40%	-	10%

- Projects of 5+ EV-installed spaces must place 1 charger adjacent to an accessible parking space
- Includes a number of exemptions/reductions
 - Affordable housing projects (120% AMI in 33% of dwelling units) can reduce requirement to 0.5 spaces per unit
 - Can substitute with Level 3 at a ratio of 2:1
 - Projects of 10+ EV-installed spaces may further reduce panel requirement to 1.4 kW per space
 - Planning Board can waive/delay requirements due to supply chain disruptions
 - ADUs are exempt
 - Motorcycle/moped spaces per exempt
- Sets general standards
 - Cord length must be less than 25 feet
 - Must be equipped with standard EV charging plug type
 - Must be a min. of 12” from curb, must not reduce ADA compliance of site, must include equipment protection when at-grade with space
 - Signage accompanying that identifies voltage/amperage, any restrictions of use