



290 EVERGREEN DRIVE
VERNON HILLS, IL 60061
www.vernonhills.org
(847) 367-3700 FAX: (847) 367-2541



ELECTRIC VEHICLE (EV) CHARGER REQUIREMENTS

When is EV Parking required? In accordance with the Illinois Electric Vehicle Charging Act, provisions for electric vehicle charging are required in conjunction with the construction of new residential units. Substantial renovations and conversions also trigger this requirement.

What is required? EV Capable parking stalls are required. EV Capable is defined as having an outlet or enclosure within 3 feet of the parking space connected with conduit to an electrical panel with the capacity to supply an EV charger on a dedicated circuit.

How many are required? One EV Capable stall is required per unit. There is a provision to reduce the total quantity for larger multi-family buildings during the site plan review process if a shared usage policy is provided.

Helpful Resources

- General information: see our [Electric Vehicle Resources](#) page for a wide variety of resources, including **permitting checklists** for home chargers and commercial / multi-family chargers.
- Residential projects: see [Section 19.12 of the Zoning Code](#)
- Commercial projects: see [Section 4.16 of the Zoning Code](#)
- Definitions of terms related to EV charging are on the back of this handout.

Definitions

Electric vehicle (EV): A vehicle that uses energy stored in rechargeable battery packs onboard the vehicle to propel the vehicle. The EV must be plugged into an external source to recharge. Includes plug-in hybrid vehicles.

Electric vehicle (EV) charger, level 1: EV battery charging that uses 110 to 120 VAC supply power, with a power range from 880 Watts (0.88 kilowatts, kW) to 1,920 kW (1.92 kW) and provides three to six range miles per hour connected. Level 1 EV chargers are supplied with alternating current (AC) and in turn provide AC power to the EV through a standard connector.

Electric vehicle (EV) charger, level 2: EV battery charging that uses 208 to 240 VAC supply power, with a range from 3.3 kW to 19.2 kW, and provides 16 to 80 range miles per hour connected. Level 2 EV chargers are supplied with alternating current (AC) and in turn provide AC power to the EV through a standard connector.

Electric vehicle (EV) charger, level 3: Direct current fast charging (DCFC). EV battery charging that uses DC power to recharge EVs at various amperage levels and voltage levels, most commonly 480 VAC, with power outputs ranging between 25 and 350 kW of power and provides 50 to 800 range miles per hour connected. DCFCs convert alternating current (AC) from facility power and output direct current (DC) and volts direct current (VDC), which then delivers DC power to the BEV through a standard connector.

Electric vehicle charging station (EVCS): Equipment designed to safely supply and manage power into plugin EVs. EV charging stations include hard-wired EV charging stations and EV charging stations that plug in to standard wall outlets and may also integrate communication, metering, GPS and other features that assist EV drivers and the host facility.

Electric vehicle charging station (EVCS), primary use: A retail establishment, not accessory to a permitted land use, that provides electric vehicle charging as its primary function. May include accessory uses such as a convenience store and/or an indoor lounge for customers.

Electric vehicle charging station (EVCS), accessory use: An EVCS located within a parking area accessory to a permitted use in a given zoning district. Includes charging infrastructure and equipment typically required to support the EVCS.

EV Capable: Means parking spaces that have the electrical panel capacity and conduit installed during construction to support future implementation of electric vehicle charging with 208-volt or 240-volt or greater, 40-ampere or greater circuits. See Illinois Electric Vehicle Charging Act.

EV Ready: Means parking spaces with a fully wired outlet or enclosure within three feet (3.0') on a circuit dedicated to electric vehicle charging. See Illinois Electric Vehicle Charging Act.