



City of Myrtle Beach
City Council Meeting
Tuesday, February 14, 2023

Ordinance 2023-4 to amend Sections 203 to define Electric Vehicle Charging Stations and 1502 to allow electric vehicle charging stations as accessory uses with conditions.

February 7, 2023: Planning Commission Recommends Approval (7/0)

2023-004 EV Charging Stations

An amendment in three parts:

1. Electrical Vehicle Charging Stations (EVCS)
Definition (Applicant Request)
2. Accessory Use (Applicant Request)
3. Additional Requirements (Parking, Setbacks,
Landscaping, Signage, and Lighting) (Staff
Request)

Electrical Vehicle Charging Stations (EVCS) Definition

- **Electrical Vehicle Charging Stations (EVCS):** A public or private parking space that is served by battery charging station equipment including but not limited to power cabinets, conduit/wiring, structures, machinery, and equipment integral to supporting an electric vehicle for the purpose of transferring electric energy to a battery or other energy storage device in an electric vehicle.

Electrical Vehicle Charging Stations (EVCS) Definition

- **EV Charging Station, Level 1:** Level 1 provides charging through a 120 volt (V), alternating-current (AC) plug. Level 1 is considered as slow charging. Level 1 charging equipment is standard on vehicles and therefore does not require the installation of charging equipment.
- **EV Charging Station, Level 2:** Level 2 charging is through a 240V, AC plug and requires installation of home charging or public charging equipment. These units require a dedicated 40 amp circuit.
- **EV Charging Station, Level 3/Direct Current Fast Charging (DCFC):** Level 3 or DCFC charging is through a 480V, direct-current (DC) plug.

KNOW YOUR EV CHARGING STATIONS

AC Level One



VOLTAGE

120v 1-Phase AC

AMPS

12–16 Amps

CHARGING LOADS

1.4 to 1.9 kW

CHARGE TIME FOR VEHICLE

3–5 Miles of Range Per Hour

AC Level Two



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)

CHARGE TIME FOR VEHICLE

10–20 Miles of Range Per Hour

DC Fast Charge



VOLTAGE

208V or 480V 3-Phase AC

AMPS

<125 Amps (Typ. 60 Amps)

CHARGING LOADS

<90 kW (Typ. 50 kW)

CHARGE TIME FOR VEHICLE

80% Charge in 20–30 Minutes






ELECTRIC
VEHICLES
ONLY
RESERVED
PARKING



RIVIAN
Myrtle Beach, SC

THE COLORS AND MATERIALS SHOWN IN THIS RENDERING ARE CLOSE APPROXIMATIONS AND NOT AN EXACT MATCH. RENDERINGS TO BE CONSIDERED FOR VISUAL DESIGN INTENT ONLY AND NOT FOR CONSTRUCTION.



Article 15, Conditional and Accessory Uses and Special Exceptions

- **1502.X.** Level 1 and 2 EV Charging Stations can be an accessory use for all permitted uses/zoning districts and level 3 EV Charging Stations can be an accessory use for all permitted uses/zoning districts except for residential uses in the City of Myrtle Beach with the following conditions:

Parking and Setback Requirements

1. Parking provided for the purpose of EV Charging Stations must meet the requirements as outlined in Article 10, Parking and Loading Requirements.
2. EV charging cabinets and other infrastructure components commonly used in providing EV charging, excluding the individual EV charging stations, must be set back a minimum of 10 feet from any property line.

Landscaping Requirements

3. EV charging cabinets and other infrastructure components commonly used in providing EV charging, excluding the individual EV charging stations and cabinets interior to a permitted building, must provide adequate landscape screening in addition to the following:

- A minimum of one shrub, at least 18 inches tall immediately after planting, per three linear feet of perimeter around the area of the EV charging cabinets.
- The remainder of the landscaped area around the EV charging cabinets shall be maintained with an approved ground cover.
- Curbing or other types of vehicular barriers acceptable to the zoning administrator shall be placed around the area of the EV charging cabinets for protection.

Signage and Lighting Requirements

4. Signage for EV Charging Stations may include the following:

- The logo/name of the provider of the EV charging on each charging station with a maximum area of no more than 3 square feet per station.
- Charging stations are permitted to display the information for the payment methods accepted, direction of use for the charging station, contact information for the company and any required safety information.
- No freestanding signs will be permitted.

5. Lighting for the area of the EV Charging Stations must adhere to the regulations set by Article 12, Lighting and Glare, for the zoning district of the property.