Electric Vehicle Charging Infrastructure

Technical Bulletin (2020)

In this Bulletin, underlined terms are defined in the City's *Zoning Regulation Bylaw*.

Energized Electric Vehicle Outlet Requirements

1. All energized electric vehicle outlets must provide, at a minimum, a Level 2 electric charging level as defined by Society of Automotive Engineers (SAE) International's J1772 standard.
2. Energized electric vehicle outlets must be labelled for their intended use for electric vehicle charging only.
3. An energized electric vehicle outlet must be assigned to an individual vehicle parking stall and must be located no further than 1.0m from that stall.
4. No more than one energized electric vehicle outlet may be assigned to an individual vehicle parking stall.

Requirements #2 and 3 do not apply to single family dwellings, two-family dwellings or semi-attached dwellings.

Performance Requirements for Electric Vehicle Energy Management Systems

Where an electric vehicle energy management system is installed, the electric vehicle energy management system must meet the following performance requirements:

1. A baseline performance standard of at least 12kWh per electric vehicle over an eight hour period is required when all electric vehicles are charging simultaneously (i.e. allocate at least 8A per electric vehicle on a 208V or 240V circuit, if all electric vehicles are sharing power equally). Greater allowable levels of sharing are appropriate beyond 80A, given the greater diversity of electrical loads possible at these higher amperages.

2. The allowable maximum number of electric vehicles per circuit breaker amperage is as follows:

Circuit Breaker Amperage	Maximum Number of Electric Vehicles
20	1
30	2
40	4
50	5
60	6
70	7
80	8
90	10
100	11
125	14