



# Electrical Vehicle Charging Point Location



Electric Vehicles use Lithium-Ion batteries as a power source for the electric motor. Compared to other, conventional battery types, Lithium batteries provide higher energy densities and extended lifetimes. If the Electric Vehicles are operated according to manufacturer's specifications, operation is safe.

In the worst-case scenario, a thermal runaway of the battery cells may occur, which is a highly exothermic reaction creating toxic, flammable, and/or explosive chemical components. The gaseous components generated, such as hydrogen, carbon monoxide, etc. by the fire, and those created by cooling and extinguishing activities, such as hydrogen fluoride and other toxins, present an increased risk to fire fighters and building occupants, and can contribute to a high degree of environmental contamination and damage in the surrounding area.

Electric charging units/parking areas should not be located near external combustible or flammable storage areas, such as waste compounds, pallet storage or gas cylinder cages.

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