

## Electric Vehicle Energy Management Systems

Electric vehicles are becoming more visible on Canadian roads each day. With most manufacturers building electric vehicles and demand for the vehicles increasing, dealerships need to evaluate controls for installing and protecting electric vehicle charging stations, property, and people.

### RISKS RELATED TO INSTALLATION AND USE OF EVEMS (ELECTRIC VEHICLE ENERGY MANAGEMENT SYSTEMS):



Fire



Bodily Injury



Power failures

### CONTROLS:

In collaboration with electrical contractors, engineering firms, consulting firms, and charging station providers, we suggest the following controls be considered to protect customers and staff from injury, to reduce the chance of property damage and to protect the equipment from damage following a power outage.





## PHYSICAL CONTROLS:

- Physical protection of EV charging stations to prevent damage from other vehicles
- Shut-off devices to cut power in an emergency
- Cut power to stations after hours
- Ensure areas where charging stations are installed for customers are in well-lit areas with limited slip, trip and fall exposure
- Installation of charging stations in areas with camera surveillance
- Signage indicating whether the station is Level 1 Charging, Level 2 Charging or Direct Current Fast Charging
- Indoor charging stations should have clear separation and distance from any combustibles
- Install surge protection to protect the EVEMS following a power outage

## OPERATIONAL CONTROLS:

- Operational Lock-out & Tag-out procedures in place
- Theft prevention for electric charging cables
- Installation of EV charging stations in well-ventilated areas, away from significant fire hazards
- Installation by a qualified contractor in accordance with electrical, building and fire codes, and manufacturer specifications
- Determine capacity of existing infrastructure to charge EVs and plan for future needs
- Consider the size and location of the charging station to ensure vehicles can fit within their designated spaces with clear space for vehicles to be parked safely
- Consider monitors and timers for your Electric Vehicle Energy Management System

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**Review your policy to see if you are properly covered.**

**Reach out to Lloyd Sadd and we will put you in touch with one of our expert advisors who specializes in insuring dealerships.**

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**LET US HELP YOU  
MANAGE YOUR RISK**

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