

# Considerations for EV Charging Stations at Dealerships



## Please route to:

- Owner
- General manager
- Service manager
- Office manager

AutoPacific is predicting that EV sales nationally will top the one million-mark sometime in 2024 and hit two million – more than 10 percent of a healthy year's total new vehicle sales – by 2026. That compares to less than 3% of sales in 2021.

### EV sales outlook

EV sales should grow to reach approximately 29.5% of all new car sales in 2030, from an expect roughly 3.4% in 2021. This would also see sales increase to 4.7 million from a little more than 500,000 in 2021. The US Government is offering incentives for consumers to purchase EVs, so the outlook is growing every day. Dealerships will play an important role in EV sales, so now is the time to capitalize with strategies for incorporating EVs into your sales projections and facility planning.

### Charging into the Future

If EV's are coming, then the charging stations and electrical infrastructure will need to be in place first. "Quick Charge" stations will require additional, high voltage circuits and equipment. Dealership facilities will need to have the electrical capacity to handle multiple chargers. If you're at the starting point in planning for your own EV infrastructure, there are several important considerations,

- Where should EV chargers be located in my dealership?
- Who will perform the installations?
- What standards will be applied to assure safe installation?
- Will you provide customer access?
- How will you manage access after hours?
- Will "a charge" be free of cost, or will customers pay for the service?

## Quick Checklist

To help get you started, below is an abbreviated checklist reviewing basic considerations for installing EV Charging Stations at your facility:

Request all information/insight available from the OEM

Charge station(s) location: identify potential for standing water, icing, vehicle damage, flash floods, etc. Avoid installing EV charging stations in non-sprinklered buildings or underground parking garages where Fire Department access would be difficult or delayed.

Establish method/security to prevent unauthorized access or use of the charging equipment

Retain electrical contractors or consultants with extensive experience with EV installations

Evaluate the available electrical service, and evaluate the capacity to handle the demand of charging station(s)

Engage your insurance carrier early to assist with reviewing plans for EV installation

Position equipment as not to interfere with traffic flow, snow removal or re-paving operations

Snow removal preparation and planning in place

Equipment installed per Manufacturer's recommendations and local requirements

Parts, components and completed unit certified by a Nationally Recognized Testing Laboratory

Equipment should meet the most current National Electrical Code Standards for EV Charging stations (NEC Article 625)



Installation complies with ADA requirements

Proper signage and pavement markings to restrict usage to EV's

Self-retracting power cables to reduce tripping hazard and prevent abrasion damage

If self-retracting power cables aren't used, position equipment to reduce trip hazard

Customer parking area should be well-lit for security reasons

Barriers, bollards, or guardrails installed to protect equipment from vehicular damage

Implement a monthly inspection program to ensure all equipment is maintained in safe operating condition

## Looking for help

The first source of guidance and advice should be from your OEM. By now they've likely talked with you about the newest EV products and how to support them. There are other resources available to offer advice and guidance. Some of these are published by the Federal government and others come from state and local communities that have educated themselves via trial and error. Some of the best sites we found include:

- [The US Department of Transportation \(DOT\)](#)
- [EV Planning Resources: Implementation, Installation, and Maintenance | US Department of Transportation](#)
- [New York State Energy Research and Development Author](#)
- [Best Practice Guides and Cases – NYSERDA](#)
- EPA Presentation – These presentations by representatives from the EPA and an EV consulting firm offers advice on planning ahead and on “lessons learned” from actual experience:
  - [Best Practices for EV Charging \(energystar.gov\)](#)

## Call in the experts

Finally, don't hesitate to contact and work with experts in the field of EV installations. Due diligence interviewing these specialists will be critical to the overall success of your project. The EV trend is just now getting “traction” and will be a quickly growing segment of the auto industry for the next few decades.



## Loss prevention information

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A1-P0393976-A (10/22) P0393976