

# Electric Vehicle Charging 101

What you need to know about charging EVs

## Key Multifamily Charging Features

Charging features are fundamental to EV charging at multifamily housing properties:

- **Access controls** determine who can use a charger, when and how much they pay
- Payment can be required to start a charge and is typically facilitated by phone app, credit, or debit card
- **Notification systems** allow remote communication of vehicle charging status and are particularly critical if idles fees are implemented
- **Reservation systems** allow for remote scheduling of charging times
- **Idle fees** can be imposed by the owner of the charger if drivers are overstaying their charging session
- **Load management systems** enable a greater number of chargers to be deployed and maximizes electrical capacity use

## Quick Facts



Most EV charging happens through overnight home charging, suiting the average American daily driving need.



There are over 64,641 public charging stations & 168,388 charging ports in the U.S.\* Apps like Chargeway, plugshare, and chargehub locate chargers near you.



The average daily vehicle miles traveled per American household is 39.7 miles\*\*.

## Charging Levels

Level 1



120 Volt Outlet  
(household outlet)

Level 2



208/240 Volt Outlet  
(standard dryer outlet)

Level 1/L2 Compatible Plugs



SAE J1772



NACS North American Charging Standard. Moving to J3400 in 2025

DC Fast Charging (Level 3)



CCS/SAE American/European Cars



CHAdeMO Nissan Leaf Plug



NACS North American Charging Standard. Moving to J3400 in 2025

## Home Charging

In most cases, **charging at a single family home** is cheaper than public charging. You can choose whether to plug in directly to an outlet (Level 1) or install a level 2 charger at your home.

**Charging at multifamily housing** is becoming a necessity as EV adoption grows. Plan ahead by utilizing incentives to meet long-term EV charger demand. L1 and L2 chargers both work great at MFH properties, balancing installation cost with resident and property needs.



Check for utility, state and federal incentives to fund your EV charger install project.

\*Alternative Fuels Data Center, 2023

\*\*National Household Travel Survey, 2022

[www.chargeathome.org](http://www.chargeathome.org)