Average ev charging time

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When contemplating the switch to an EV from a gas powered car, charging time is one of the first considerations everyone looks into. The process of fueling up an EV can feel like an unknown when a driver has spent years filling up an ICE (internal combustion engine) vehicle. While pumping gas takes a few minutes, how long does it take to charge an EV?

An EV"s charging time depends on two major factors: how much charge (kWh) is needed, and how much power (kW) the EV charging station provides. Divide the charge needed by the power provided to get the estimated hours of charge time required. There are other variables that play into this calculation but these two factors are the most significant variables when estimating your electric vehicle"s charging time.

Example:A Tesla Model 3 with an 80 kWh battery size parks at a 7.68kW Level 2 charging station with 20% battery left. They would like to charge their EV to 80%.

To estimate how much charge your EV needs, subtract the EV"s max battery capacity (kWh) from the amount of charge it has left. Most, if not all, EVs will display the remaining battery percentage or number of kWh left within the battery. Just as most people do not wait until their gas cars are completely empty, EV drivers will always have some charge left in the batteries when they stop to refuel.

According to an EV Consumer Behavior report, about 70%-80% of EV drivers charge at home or at work every day/night or every other day/night. The average American drives around 250 miles per week or roughly 36 miles per day. This equates to around 10-13 kWh of charge per day or 20-26 kWh every other day. The average EV battery size is around 40-50 kWh, providing around 150 miles of range or 2-4 miles per kWh. Knowing your EV"s battery size and efficiency will help shape your charging routine when estimating your EV"s range. Tips on how to improve your EV"s range.

Charging speed is determined by the amount of kilowatts (kW) a charging station can provide per hour (kWh). There are 3 types of EV charging stations, all with varying levels of charging speeds: Level 1, Level 2, and Level 3 (DC fast charger). As the names suggest, the higher the level, the faster the charging speed. Most chargers will display their charging speed either on the charger itself or within a connected charging app.

The majority of EV charging happens on Level 2 and Level 3 charging stations as Level 1 chargers are generally too slow for most drivers. While Level 3 is faster, Level 2 chargers tend to be more practical for installation and supporting most drivers" daily needs. Check out the difference and which charger or configuration of chargers is best for your property.

Other factors such as load sharing, temperature / weather conditions, EV battery protection settings, and EV charge acceptance rate can play a role in an EV"s charging time. While these factors are unique to the car

model and charging location, they are important for EV drivers to know and take into consideration when starting a charge or planning their route for the day.

The EV charge acceptance rate is the maximum kW an EV is able to consume or accept from a charging station. Many EV manufacturers will throttle or cap the rate of power their EVs can consume . The acceptance rate for an EV can decrease as it gets closer to 100% charged. For example an EV could be charging at a 100 kWh Level 3 fast charger and receive 100 kWh from 10-80% but slow down to 65kWh from 80-100%. This information will be noted in the manufacturer"s specifications of the vehicle.

We provide EV drivers fast, reliable charging through our network of Level 2 and Level 3 charging stations. Our 98%+ network availability ensures drivers come back to a fully charged car and our 24/7/365 support allows us to help at every turn along the way.

Add value, not work, with our turnkey solution for commercial and multifamily properties. Our in-house teams provide properties with end-to-end project management, installation, and ongoing operations and support. We"ll even do all the rebate paperwork and applications for you. Reach out to our team of EV infrastructure experts for a free installation evaluation.

Electric cars are becoming increasingly popular with drivers who desire these vehicles’ eco-friendliness and cutting-edge design. These days, buyers turn to them because they want to save money as they steer clear of gas stations.

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