



# Build electric car charging station

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Vehicle electrification is a small but mighty step in addressing the climate crisis. The recent surge in EV sales is encouraging, but all those vehicles need charging--and we have a ways to go before charging stations become as accessible as gas stops. Fortunately, savvy businesspeople around the globe want to help. They're wondering how to start an EV charging station business in ever-increasing numbers.

This comprehensive guide will take you through the process, shedding light on the necessary market research, popular business models, grant opportunities, technical and regulatory standards, and more you'll face in the course of business. Equipped with this info, your business will be up and running faster than a DC charger fills a battery.

When investigating how to start an EV charging station business, grants stand out as an attractive inroad. It's important to consider each carefully, making note of hard deadlines, explicit program goals, desired outcomes, and guidance about how the funds can be used.

President Biden's Bipartisan Infrastructure Law carved out billions in federal funding for infrastructure for electric and hydrogen-powered vehicles. These grants, offered by the US Department of Transportation, can provide a minimum of \$500,000 in funding, but take note: The funding must go toward rural communities of less than 10,000 people. These areas likely have next-to-no competition, which could give you an early foothold in expanding markets.

Volkswagen's Diesel Emissions Environmental Mitigation Trust came out of the company's emissions scandal as an effort to undo some of the damage it caused. The trust as a whole creates grant opportunities for projects encouraging the adoption of sustainable transportation, and a portion of it is dedicated specifically to developing EV charging infrastructure in the US. The National Association of State Energy Officials (NASEO) has general info about grant opportunities, but applicants need to check their state's website for specific requirements, as the trust allocates funding at the state level.

Speaking of the state level, several have their own funding offerings. California's Clean Transportation Program offers a mix of grants, contracts, and rebates for EV charging infrastructure, among other sustainable transportation solutions. New York's ChargeNY initiative targets EV charging, specifically. With Charge Ahead Colorado, that state offers grants for the installation of Level 2 and Level 3 fast charging stations in public and private locations. Be sure to check for funding opportunities in your state.

A great starting point in Canada is the Zero Emission Vehicle Infrastructure Program. This \$680 million program has carved out funding for EV chargers across the country, but competition is stiff. To be eligible, your proposal must include at least one charger of 200 kW and above, two fast chargers of 50 kW and above, or 20 chargers of all charging levels. Check out our ZEVIP resources page for more info.



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There are a few common models those wondering how to start an EV charging station business typically consider. The right one for you will vary according to your goals, expertise, and available resources.

Charging networks work like gas station chains. In this model, you'll own stations at several locations to maximize market density. By charging EV drivers flat or variable rates based on fluctuations in power supply, you'll bring in revenue. You'll either operate the stations yourself or pay a service to maintain them.

This model is very time and resource-intensive because it demands an upfront investment in infrastructure in addition to ongoing maintenance (which in turn demands expertise). It makes the most sense for gas station chains that want to move into the EV space.

Rather than provide the charging infrastructure, solutions providers sell EV hardware, software, and services to residences, commercial buildings, fleet operators, and more. Their offerings vary, including consultation, maintenance, turnkey services for businesses looking to provide EV amenities, and more. Payment occurs either at installation, monthly, or annually if service is ongoing. In this model, turning a profit means soliciting discounts on hardware and software you then sell at a markup. Strong sales and customer service skills are vital to this model, and experience with EVs or other green tech can be a boon.

Operating a successful electric vehicle charging station business means ensuring every piece of the operation stays in working order. That keeps customers happy and revenue flowing. As sophisticated feats of engineering, Level 2 and DC fast chargers have several components you'll need to maintain.

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