



+ E-BOOK

EV Charging for Healthcare

A Blueprint for Modernizing
Your Medical Facility

9-MINUTE READ

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The number of electric vehicles (EVs) on U.S. roads is expected to quadruple by 2035, hitting 78.5 million.

As EV adoption accelerates, drivers expect convenient, reliable charging options wherever they spend significant time. For hospitals, clinics, and medical campuses — places that serve thousands of patients, visitors, and employees daily — the need for EV chargers is pressing.

By installing EV charging stations, healthcare organizations like yours can enhance the patient and employee experience, support sustainability goals, and even open new revenue streams. In this e-book we'll explore why EV charging is a natural fit for healthcare, factors that influence cost and ROI, and how PowerFlex can help make your future EV charging project a success.

Why EV Charging for Healthcare?

Facilities that choose to install EV chargers on site stand to gain a wealth of operational, financial, and environmental benefits.

Here are just a few:

■ Enhanced Patient Experience

Patients and visitors often spend hours at healthcare facilities, whether for appointments, procedures, or visiting loved ones. Providing accessible EV charging in parking lots and garages to those who drive EVs adds a valuable amenity, making visits more convenient and less stressful. For patients who may be anxious or facing long waits, knowing their vehicle will be charged by the time they need to leave can be a small but meaningful comfort that encourages them to return in the future.

■ Employee Retention

The healthcare facilities depend on skilled medical professionals. Offering charging is a powerful way to appeal to eco-conscious doctors, nurses, and staff, especially as more people switch to EVs. Employees who can reliably charge at work are less likely to experience range anxiety (the fear of running out of power on the road) when they leave to go home. This makes your facility a more attractive place to work and future-proofs it as EV charging demand continues to rise.

■ New Revenue Streams

EV charging can be more than just a service; it can be a source of revenue. Healthcare facilities can choose to charge drivers a fee for using the stations, generating income that can offset installation and energy expenses. For large campuses, this can add up to significant annual revenue that can boost your organization's net operating income, as well as accelerate your return on investment (we'll explore this in more detail shortly).

■ Improved Local Air Quality

Hospitals and clinics are on the front lines of community health. By supporting EV adoption, healthcare facilities help reduce local air pollution from gasoline and diesel vehicles. This is especially important in urban areas, where air quality can directly impact respiratory health. Moreover, supporting clean transportation aligns with the mission of healthcare organizations to promote wellness and prevent disease.

■ Increased Sustainability

Sustainability is a priority for healthcare organizations, and installing EV charging stations is a visible, impactful way to show a commitment to environmental responsibility. Facilities that operate electric vehicles as part of their fleet can also lower their Scope 1 emissions (emissions caused by an organization's direct activities). Seeing as Scope 1 accounts for 7% of the healthcare industry's total carbon emissions, electrifying a fleet can lead to considerable progress in reaching sustainability goals.

Factors That Affect EV Charging Costs & ROI

Implementing EV charging on your property is a strategic decision, and understanding what contributes to your project costs and return on investment (ROI) is essential.

Here are some important considerations:

■ Number and Type of Chargers Installed

The total cost of an EV charging station depends heavily on how many chargers you choose to install and whether you opt for Level 2 or DC Fast Chargers. Level 2 chargers are ideal for most healthcare settings, offering a balance of speed and affordability, while DC Fast Chargers require more robust infrastructure and are best for quick-turnover locations. Most sites typically incorporate a mix of charger types to give drivers options.

■ Onsite Power Capacity and Electricity Costs

Your facility's existing electrical infrastructure can impact installation costs. If your EV charging load isn't managed effectively, upgrades may be necessary to support the added power draw. How much your utility company charges for that power, including any extra peak demand fees, will affect overall costs too.

However, these concerns can be mitigated if you choose PowerFlex as your EV charging provider. The PowerFlex X™ cleantech platform optimizes your EV charging with Adaptive Load Management® technology, distributing charging load to eliminate spikes in power demand and avoid extra fees. With PowerFlex, more chargers can operate using less power, removing the need for electrical upgrades and saving you up to 60% in implementation costs.

■ Permitting and Regulatory Requirements

Local permitting, inspection, and compliance with building codes can add time and cost to your project. You'll need to make sure the necessary AHJs (authorities having jurisdiction) are engaged and procedures are followed to allow for a smooth installation. Working with an experienced EV charging provider can ensure you meet all requirements efficiently.

■ Pricing Models & Charger Access

Electing to charge drivers a fee to use your charging stations can spark a new revenue stream for your facility and allow you to recoup costs more quickly. It's also important to think about access to your chargers: Will they be restricted to just employees or open to patients and visitors? This decision can impact utilization rates and revenue potential.

■ EV Charging Incentives

State incentive programs offer funding for eligible EV charging projects, often with additional support for sites located within disadvantaged communities. These grants and rebates can be used to significantly reduce or offset upfront hardware and installation costs, accelerating payback times. For example, PowerFlex's policy experts have secured \$40 million in incentive funds to date, helping our customers reduce project expenses and maximize returns.



Project Planning Process & Best Practices

Assessing costs is just one aspect of planning an EV charging project.

Here are other key steps and some best practices for ensuring success:

01 Get Internal Buy-In & Partner With a Provider:

Use your project's ROI outlook, as well as its impact on your organization's sustainability goals, to help justify the investment to internal stakeholders. You'll also want to contract a reputable EV charging provider like PowerFlex that can help you form a business case for the project as well as handle all the other aspects of project development listed below.

02 Site Assessment & Development:

Your EV charging partner will evaluate your facility's electrical infrastructure, determine equipment needs, identify available incentives and regulatory requirements, and estimate project costs. The provider will then finalize site designs, submit applications for incentives and financing, and coordinate with utilities and local authorities to obtain necessary permits and approvals.

03 Engineering, Procurement, Construction (EPC):

In this phase, your EV charging provider will develop comprehensive engineering plans, hire qualified construction contractors, and handle procurement of all major equipment. After mobilizing resources and breaking ground, construction will proceed according to the established schedule. The process concludes with final inspections and approvals, culminating in receiving a commercial operation date (COD), when your new EV charging infrastructure is officially ready for use.

04 Ongoing O&M and Asset Management:

After installation, a full-service EV charging provider such as PowerFlex will offer ongoing operations & maintenance (O&M) and asset management. This includes monitoring and optimizing your charging stations, handling warranty claims, tracking incentives, delivering responsive customer support, and performing maintenance and repairs when needed.

EV Charging for Healthcare: Success Stories

PowerFlex has helped top-tier healthcare facilities develop, install, and optimize large-scale EV charging projects that meet their operational and financial needs.

Children's Hospital Los Angeles (CHLA)

Upon observing the growing need for EV charging on its Los Angeles campus, CHLA partnered with PowerFlex to install 103 Level 2 chargers and 1 DC Fast Charger in its parking facility. By leveraging PowerFlex's Adaptive Load Management® software, CHLA was able to install more stations than a typical setup, keep infrastructure costs low, and prepare for future growth. The system supports reliable charging for staff, patients, and visitors, while helping the hospital avoid 316 tons of greenhouse gas emissions annually and provide over 720,000 miles of electric range each year.

Kaiser Permanente

Kaiser Permanente, one of the largest healthcare providers in the U.S., set an ambitious goal to achieve net-zero emissions by 2050. To support its employees and members who drive EVs, Kaiser partnered with PowerFlex to install more than 1,500 Level 2 chargers and 7 DC Fast chargers across multiple states. PowerFlex's ability to secure millions in rebates and incentives made the installations cost-effective. The PowerFlex X™ cleantech platform allows Kaiser to monitor and manage critical aspects of its charging network, including tracking \$200,000 in annual charging revenue. The project has already avoided 1.3 million pounds of greenhouse gas emissions and facilitated over 135,000 charging sessions annually.



Talk to an expert to learn more about how intelligent EV charging from PowerFlex can help transform your healthcare facility.



About PowerFlex

PowerFlex is a clean technology solutions company making the transformation to carbon-free electrification and transportation possible. Our adaptive and intelligent cleantech platform PowerFlex X™ monitors, controls, and co-optimizes clean energy assets like EV chargers, solar, energy storage, and microgrids — reducing overall energy costs through patented algorithms that maximize distributed energy resources.

PowerFlex is the third-largest installer of commercial rooftop solar and the second-largest network of Level 2 EV chargers in the United States. Our solar and storage projects offset 460,000 tons of CO2 each year, while our 40,000+ EV chargers were responsible for offsetting more than 100,000 tons of CO2 in 2024.

PowerFlex is backed by EDF Power Solutions and Manulife Investments.

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