



# THE FUTURE IS ELECTRIC

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ELECTRIC VEHICLE INFRASTRUCTURE  
POLICY & PLANNING



# The Electric Vehicle Evolution Is Here

As electric vehicle (EV) prices drop and the impacts of climate change become apparent, more and more people and organizations are considering switching from fossil fuel vehicles to EVs. While a lot of EV charging can take place at home or at the workplace, public chargers are necessary for widespread use of EVs. The need to get charging infrastructure in place is posing important policy and planning questions for local jurisdictions.

The proliferation of EV charging infrastructure will not happen by itself. In many states, current regulatory frameworks don't make it easy to provide public EV chargers. It's going to take a proactive approach by local governments to estimate demand, formulate a strategy, change the regulations, and partner with private sector providers. Proactive jurisdictions that create an EV-friendly environment will find it easier in the future to attract businesses and talent, which translates to an edge in economic development promotion. Stantec can help you get there.

**How many chargers does your community need?**

**Where should chargers be located?**

**How can you ensure access to EV chargers for the whole community, including people living in apartment buildings?**

**How can you get new chargers delivered and maintained? What is the role of the private sector?**

**What policies can encourage more EVs in your community?**



# Building Your EV Action Plan

Stantec is a leader in EV charging infrastructure, having already enabled the delivery and assessment of more than 7,000 chargers across North America. We can help support EV adoption in your community, maximizing the benefits of EV usage while minimizing the costs borne by the local authority. Taking into account local and state regulatory frameworks, we project ownership rates, determine the need for charging facilities, and formulate a strategy for delivering chargers in partnership with employers, real estate developers, charging companies and other private firms. The EV action plan we can prepare for your community will have the following key elements:

## OVERARCHING DELIVERY STRATEGY:

Striking the right balance between use of the public right-of-way vs. incentivizing public charger delivery on commercial properties.

## PARTNERSHIPS:

Identifying local, regional, and national organizations that can help deliver EV infrastructure.

## PHASED INFRASTRUCTURE INVESTMENT PLAN:

Prioritizing locations where chargers are needed most today and thoughtfully expanding access over time, using analytics and public engagement.

## POLICY RECOMMENDATIONS:

Identifying the changes to your regulatory framework—including permitting, zoning, and design guidelines—needed to support charger delivery and the creation of partnerships around EV-readiness.

## COORDINATION:

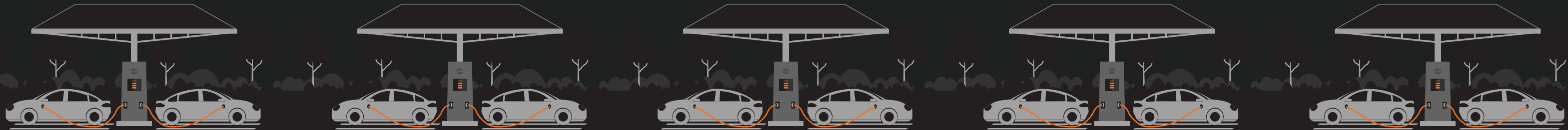
Engaging with utilities to ensure grid readiness and recommendations for a resilient charging network, in addition to communicating with developers around EV infrastructure investments.

## DESIGN REQUIREMENTS AND INCENTIVES:

Merging EV infrastructure investments and incentives with community vision around mobility, use of right-of-way, and sustainability goals.

## OUTREACH AND EDUCATION:

Helping constituents understand EV technology and the changes in user behavior that come with its adoption (e.g., charging while grocery shopping vs. filling up the tank at a gas station).





# Achieving Your Vision for the Future

Creating an action plan is just the first step on this journey. Our multi-disciplinary and solutions-focused team can also support you as you consider electrifying your own municipal fleet and upgrading infrastructure design standards to support EV rollout. Our integrated services throughout the project lifecycle include:

## **VEHICLE FLEET TRANSITION PLANNING**

Functionality analysis, financing options, vehicle availability research, logistics planning.

## **TECHNICAL GUIDANCE**

Specifications and requirements around charging station access, capacity, technology compatibility, payment, mobile applications, and mapping.

## **FINANCING/FUNDING ANALYSIS**

Identification and pursuit of federal, state, and utility grants and loans for installation of EV charging infrastructure.

## **POWER SYSTEM DESIGN AND GRID UPGRADES**

EV charger upgrades to ensure smooth operation during the transition to EVs.

## **SITE DESIGN AND PERMITTING**

Civil and environmental permitting, traffic analysis, signing and striping, electrical and structural engineering.

## **SOCIAL AND ENVIRONMENTAL IMPACT ANALYSIS**

Impacts on air quality and GHG with a focus on prioritizing equitable deployment of clean mobility solutions.

## **PROCUREMENT SUPPORT**

RFI/RFP/RFQ management, contractor qualification and selection, vendor/shop/field inspection, QA inspections, and logistics support.

## **CONSTRUCTION**

Constructability reviews, construction oversight, schedule management, safety, contractor coordination.

## **REGULATORY GUIDANCE**

Regulatory framework development that is adaptable and merges EV charging policies and design guidelines.

## **LIFECYCLE AND DISPOSAL ANALYSIS**

Technical and cost analysis for safe disposal of e-waste from new technologies.



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