



# POWERING CHICAGO ⚡

IBEW 134/NECA

The Time is Now: Considerations  
for EV Charging Infrastructure



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# A Comprehensive Approach to Installing EVSE

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# Assess Needs With A Site Assessment



- A site assessment is best done by a qualified electrical contractor.
- Includes load calculations through audit of existing electrical system.
- Powering Chicago and EVITP offer tools to find a local provider trained to install EVSE.

# Plan EV Infrastructure

A photograph of an electric vehicle (EV) charging station. The image shows a long row of yellow charging stations with black cables, set in a parking lot. The ground is covered with patches of snow and ice. In the background, there are trees and a white car. The overall scene is outdoors during the day.

- Plan for your current needs.
- Plan for future infrastructure.
- A qualified contractor can help assess your property layout, Level 2, AC or DC Fast Charging, weather considerations, and more.

# Prepare Construction Budget Proposal and Installation Timeline

A photograph of a row of yellow electric vehicle charging stations in a parking lot. The ground is covered with snow, and a white car is visible in the background. The charging stations are arranged in a line, and the background shows trees and a building.

- Research all available grants, rebates and tax incentives to offset capital expenses.
- Determine impact of product availability on installation timing.

# Contact Local Utilities

A photograph of a row of yellow electric vehicle charging stations (EVSE) in a parking lot. The ground is covered with snow, and there are utility boxes and cables visible. In the background, a white car and a dark van are parked. The scene is outdoors with trees and a building in the distance.

- In some cases, new service may need to be set up with a local power company in order to supplement the electrical infrastructure.
- Your contractor can help you determine whether your current electrical service is capable of delivering the required power to the EVSE.

# Secure Needed Permits From Local Government

- Some municipalities have Green and Solar Permits that include expedited priority review.
- Commercial projects in Chicago must earn certification within LEED or Green Globes rating systems to qualify.
- Projects can also qualify by implementing eligible green technologies.



# Complete Installation, Commissioning, and Municipal Inspections

A photograph of a parking lot with a row of electric vehicle charging stations. Each station is protected by a yellow bollard. The ground is partially covered with snow, and a white car is visible in the background.

- As a final step, your contractor will complete the EVSE installation.
- Your contractor will also handle the facilitation of any needed inspections.

# Develop a Maintenance Plan

The background image shows a row of electric vehicle charging stations. Each station has a yellow protective sleeve around the charging cable. A white car is parked at one of the stations in the distance. The ground is paved and has some snow or ice patches. The sky is clear and blue.

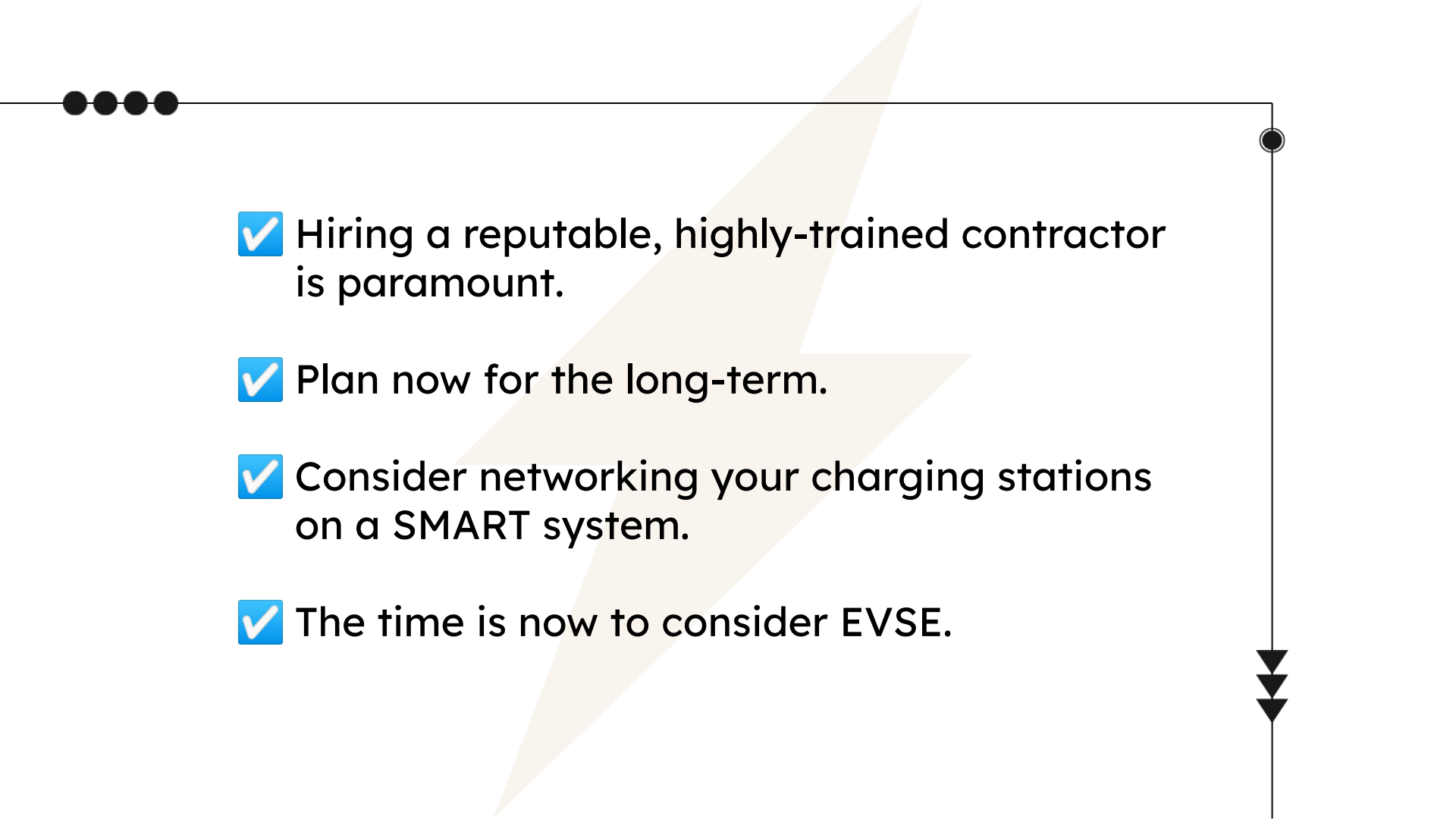
- The EVSE connections to the vehicles are rated for 10,000 connections, but you'll still want a qualified contractor to have at the ready for issues that may arise.
- Aside from routine preventive maintenance, vehicular impact, wear and tear from regular usage, and weather exposure can impact routine operations.

A close-up photograph of a person's hand plugging a grey and black charging cable into the charging port of a silver electric vehicle. The background is blurred, showing a stone wall and greenery. The text 'Key Points Summary' is overlaid in white, and 'POWERING CHICAGO' with a lightning bolt icon and 'IBEW 134/NECA' are overlaid in yellow and white at the bottom.

# Key Points Summary

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- ✓ Hiring a reputable, highly-trained contractor is paramount.
  - ✓ Plan now for the long-term.
  - ✓ Consider networking your charging stations on a SMART system.
  - ✓ The time is now to consider EVSE.