

NIKOLA®



CHARGING INFRASTRUCTURE

BEV

COMPLETE GUIDE
TO EV CHARGING

GOING GREEN

The world is moving from non-renewable to renewable resources and the transportation industry is accelerating efforts to introduce zero-emissions transportation. Fleets transitioning to electric vehicles need a simple and comprehensive process to accomplish their sustainability goals. This guide will help you get started by introducing the steps to implement DC fast charging (fixed or mobile) at a fleet depot or remote location.

CHARGING ECOSYSTEM

Electric vehicle charging infrastructure is part of the Tre BEV ecosystem. Nikola will guide you through this process and offer a comprehensive solution to support your transition to zero-emissions. Our charging ecosystem includes fixed DC fast charging infrastructure, Mobile Charging Trailers, coordination with the power utility company, smart charging software, networking, permitting requirements and estimated project timelines.

CONSIDERATIONS

For EV Charging Deployment



INVESTMENT

EV charging infrastructure cost will be dependent on the customer requirement.



GROWTH

Analyzing scaling needs



UTILITIES

Coordination & collaboration with your Power Utility Company



RATES

Electric Vehicle Rates Analysis



DEMAND

Charge Demand Analysis

DEPLOYMENT TIMELINE

Average timing: 1 year depending on fleet size

PHASE 01 PLANNING

STEPS
1 - 5

PHASE 02 DEVELOPMENT

Electrical upgrades
and construction

PHASE 03 DEPLOYMENT

Integrating
electric trucks

FIXED CHARGING LOCATION

01 ELECTRIC TRUCK DEPLOYMENT

- Determine fleet scaling potential
- Check for any electrical updates required for fleet's electrification
- Identify needed technical support with the help of the utility company
- Confirm charging requirements, needs and costs for deployment
- Identify energy requirements for various truck types

02 FLEET ELECTRIFICATION

- Plan for phasing and deployment timeline
- Analysis on energy requirement (charging times, speed of charging and daily kWh usage)
- Identify truck duty cycles
- Integrate new vehicles into rotation

03 DEPOT ANALYSIS

- Check for space availability
- Check for site infrastructure requirement
- Check for utility grid infrastructure needs
- Evaluate electrical upgrades and charging updates for additional trucks

BUILDING TO SCALE

- Evaluate renewable energy resources
- Evaluate energy storage options

04 CHARGING SPECIFICATIONS

- Charging schedule analysis
 - Identify charger type
- #### BUILDING TO SCALE
- Discuss with your utility, if power needs are exceptional

05 DEPLOYMENT OF ELECTRIC SERVICE PLAN

- Analysis of service voltage and load schedule
- Cost analysis for development and infrastructure requirements
- Identify transformer locations

06 START INSTALLATION

ADDITIONAL UTILITY SUPPORT & PROGRAMS

- Power Peak Analysis - Calculates peak power usage and estimated cost
- kWh Breakeven Analysis - Calculates estimated kWh breakeven point to diesel mpg
- Discuss infrastructure incentive programs
- EV rate structure analysis



ACCELERATE YOUR TRANSITION TO ZERO-EMISSIONS VEHICLES. RECHARGE ANYWHERE, ANYTIME WITH THE NIKOLA MOBILE CHARGING TRAILER.

Nikola's Mobile Charging Trailer (MCT) can help speed up your access to EV operations. While others are waiting for permits and recharging infrastructure to be built, our simple-to-implement MCT can have you on the road to zero-emissions, lightning fast. This will allow you to focus on how you want to operate and grow your EV fleet before you incur a significant capital expense. Knowing how you want to operate your EVs will help you to be smart about your permanent recharging infrastructure plan.

Our MCT is built on a 16 foot trailer platform and is versatile and flexible. The MCT offers a mobile charging capability to support your EV operations at Fleet depot locations or austere environments. The MCT is truly the right charging system, at the right location, at the right time to support your requirements.

MCT CAPACITY

# OF CHARGERS	1 - 2
# OF TRUCKS CHARGED PER DAY	2 - 4

CHARGER

	175kW
Manufacturer	Tritium
Connector Type	CCS Type 1
Cable Length	17' (14' reach)

FEATURES

- Plug N' Play
- 1 or 2 cable options

Shore Power Option:

Input: 480VAC 3ph ±10%
Output: 950V DC | Up to 178kW

Genset Option:

350 kW genset