ΝΙΚΟLΛ®



CHARGING INFRASTRUCTURE

BEV

COMPLETE GUIDE TO EV CHARGING



NIKOLA



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, eSKID Chargers, coordination with the power utility company, smart charging software, networking, permitting requirements and estimated project timelines.

CONSIDERATIONS

For EV Charging Deployment



DEPLOYMENT TIMELINE

Average timing: 1 year depending on fleet size

PHASE 01	PHASE 02	
PLANNING	DEVELOPMENT	
STEPS	Electrical upgrades	
1 - 5	and construction	



Integrating electric trucks

FIXED CHARGING LOCATION

ELECTRIC TRUCK DEPLOYMENT 01

- 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

FLEET ELECTRIFICATION 02

- 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

DEPOT ANALYSIS 03

- 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

CHARGING SPECIFICATIONS 04

- 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

START INSTALLATION 06

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



MCT CAPACITY

Chargers	1 - 2
Trucks Charged per Day	2 - 4

CHARGER

Capacity	175 kW
Manufacturer	Tritium
Connector Type	ССЅ Туре 1
Cable Length	17' (14' reach)

FEATURES

-	Plug N' Play	Shore Power Option:	Genset Option:
-	1 or 2 cable options	Input: 480VAC 3ph ±10%	350 kW genset
		Output: 950V DC Up to 178kW	

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MOBILE CHARGING TRAILER

MCT

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.



e	eSKID CAPACITY	
	NUMBER OF CHARGERS	1 - 2
	NUMBER OF TRUCKS CHARGED PER DAY	2 - 4
0	CHARGER	
	ΜΛΝΠΕΛΟΤΠΡΕΡ	ChargeDoint

	ChargePoint
POWER	up to 125 kW
CONNECTOR TYPE	ССЅ Туре 1
CABLE LENGTH	14'7"

FEATURES

- Plug N' Play	Shore Power Option:	Genset Option:
- 2 Cables (CCS, CHadeMo)	Input: 480VAC 3ph ±10% Output: 200-1 000V DC Up to 125kW	200 kW genset

eSKID

Provides the ability to charge two trucks at once with 62.5 kW output or divert full power (125 kW) to one charger to fast-track single truck charging.

Without the need of permanent concrete pads, the eSKID can move wherever you go and relocated as your business grows, moves, and evolves.

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QUICK INSTALLATION

The eSKID is preconfigured and does not need special permits or construction, reducing the time it takes to install EV charging infrastructure.

FLEXIBLE

PORTABLE

