

FLEET EV SOLAR+STORAGE



Championing EV Fleets with Solar+Storage Charging Carports

The helioSucrose Difference:

- Invaluable Solar+Storage charging for each and every EV in a fleet. “One-for-one”
- By integrating electricity Storage with Solar generation, our Harvest system will increase solar panel lifetime net energy output potential = higher Return on Investment and Co2 reduction for fleet owners.
- Solar+Storage Charging Carport:
 - Customer-specific configurability, with a multitude of different solar panel types/sizes (60, 72, 96 cell).
 - We selected Lithium Titanate batteries for their following conducive properties:
 - Battery cycle life that matches today’s Solar panel lifespans. Making for a true 25+ year Solar+Storage solution.
 - Built-in safety, which if a cell(s) are damaged or punctured, they naturally become inert.
 - Coupled with a thermal management system to ensure safety, expand the lifespan of the batteries, while allows for safe uninterrupted operations year round in the lower 48 states.
 - Modular, drop-on-site, prefabricated carport structural, to facilitate quick and affordable EV fleetwide adoption.
 - Easy park, plug in, and charge utilizing industry standard hardware (e.g. SAE J1772).
 - Ability to integrate grid-tied inverters adding utility and resilience to the customer’s system as an active asset to local Distributed Energy Resource (DER) & Virtual Power Plants (VPP).
 - Takes up no additional valuable real estate for Fleet EV owners.

Key Stakeholders:

- EV fleet owners - Reduce their reliance on the grid to mitigate downtime and gain greater control over their Clean energy mix.
- Utilities - Less infrastructure is need for peaktime electricity production and they can utilize company’s Solar+Storage asset to balance the local grid via energy agreements.

