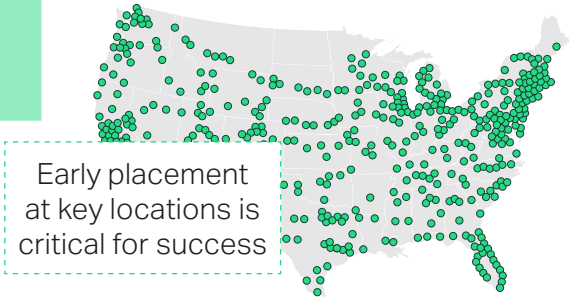
Scalable, Ultrafast EV Charging

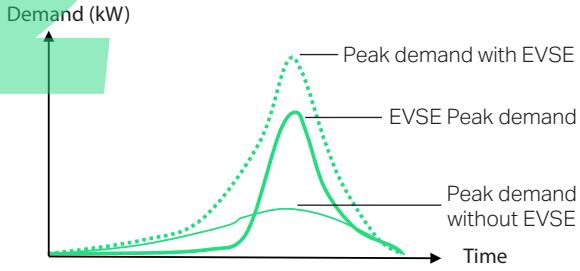
The state of EV charging station growth

1 EV charging station placement is a land grab

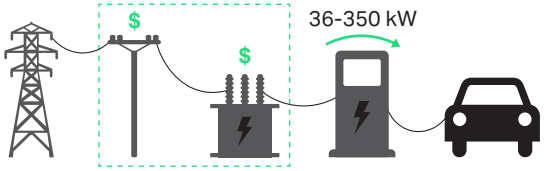


Early placement at key locations is critical for success

2 Fast chargers put strain on the grid due to high power demand



3 Necessary, high cost grid upgrades slow site expansion



Bottleneck on distribution lines and at local transformers

4 Resulting in high ongoing costs due to upgrades and demand charges

Demand charges can make up 90% of the energy bill

Overcome barriers to growth with battery-integrated ultrafast charging

Boost Charger™

Delivering ultrafast charging while significantly reducing installation & ongoing energy costs

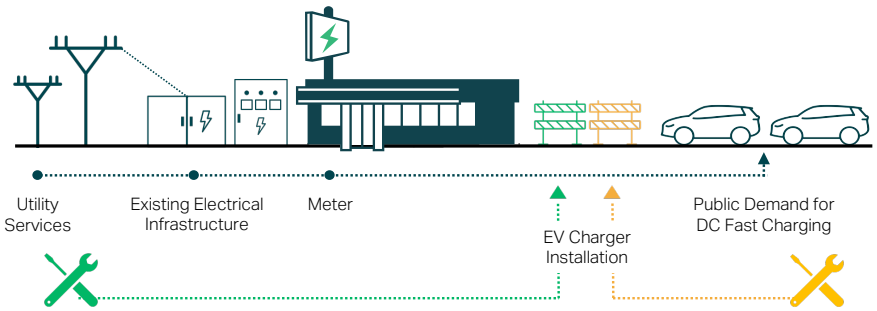
- **160 kWh** integrated lithium-ion energy storage with advanced power electronics
- **Low-voltage** (1ø or 3ø) grid with input power up to 27 kW
- **200 kW ultrafast charging** with built in energy and grid management functionality

Drive new business with low hassle, ultrafast EV charging

6x Faster Deployment Time

5X Smaller Footprint

70% Lower Operating Costs



Boost Charger Installations	
Customer	1 Battery-Integrated DC Fast Charging Station
Utility	No utility upgrades needed

Conventional Installations	
Customer	2 Legacy DC Fast Charging Stations
Utility	MV Utility Service (6kV-21kV)
Utility	Upgrade Transformer
Utility	New Power Distribution Unit
Utility	Upgrade Electrical Panel
Utility	New Power Cabinet

	FreeWire Boost Charger		Traditional Ultrafast Charger	
Cost Per Charge Energy + Demand	**$3-5**	vs.	**$8-11**	Cost per charge is **40% less** due primarily to low demand charges
Time to Install	**1-20 days**	vs.	**8-18 months**	Uses existing low voltage service
Project Complexity	**Low**	vs.	**High**	No utility or high voltage electrical work needed
Sunk Costs	**Low**	vs.	**High**	Unit can be redeployed