



ELECTRIC ERA

THE FUTURE OF CAR REFILL FOR THE NEXT GENERATION OF DRIVERS

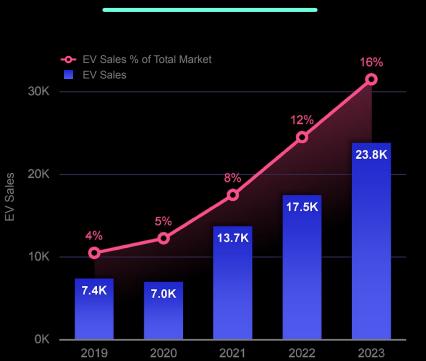
krowe@electriceratechnologies.com

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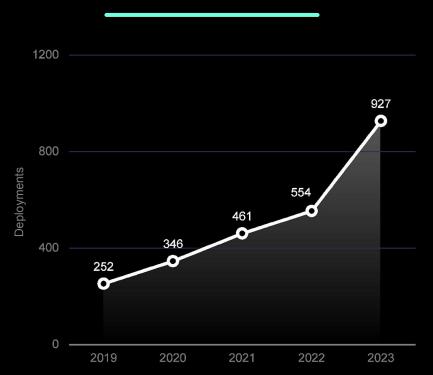
EV Market & DCFCs in Oregon







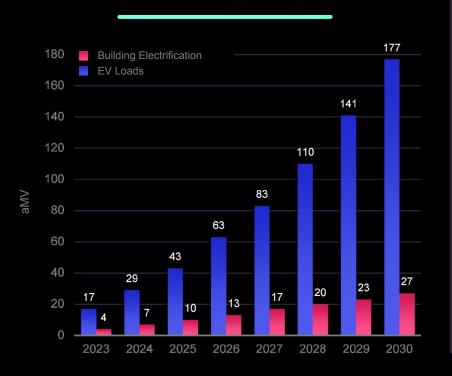
DCFC Deployments¹



EV Adoption = Increasing Grid Demand



Portland General Electric's forecasted energy use growth



Oregon Department of Energy 2023 Biennial Zero Emission Vehicle Report:

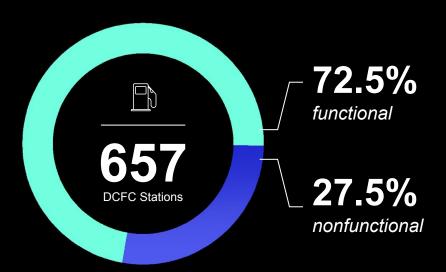
- When demand is high across multiple utilities, the market value for additional resources spikes.
- If utilities consistently need to pay high market prices to meet load, the costs may be passed on to utility customers through annual electricity rate increases called power cost adjustments.
- EV load peaks at roughly the same time of day as grid-wide peak load, largely driven by light-duty charging.

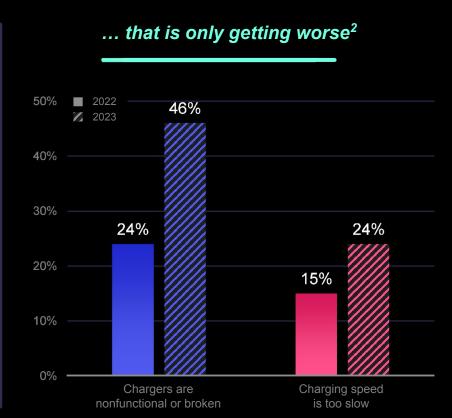
Reliability has plagued DCFC industry



Unacceptable reliability¹...

Findings from a 2022 UC Berkley study¹ that looked at 657 DCFC stations in the Bay Area:





¹ Rempel, D. (2022). Reliability of Open Public Electric Vehicle Direct Current Fast Chargers.
² Plug In America. (2023, May 2). 2023 EV Driver Survey





Make EV fast chargers ubiquitous by making them affordable and accessible for all.

Founded by a team of aerospace engineers from SpaceX.

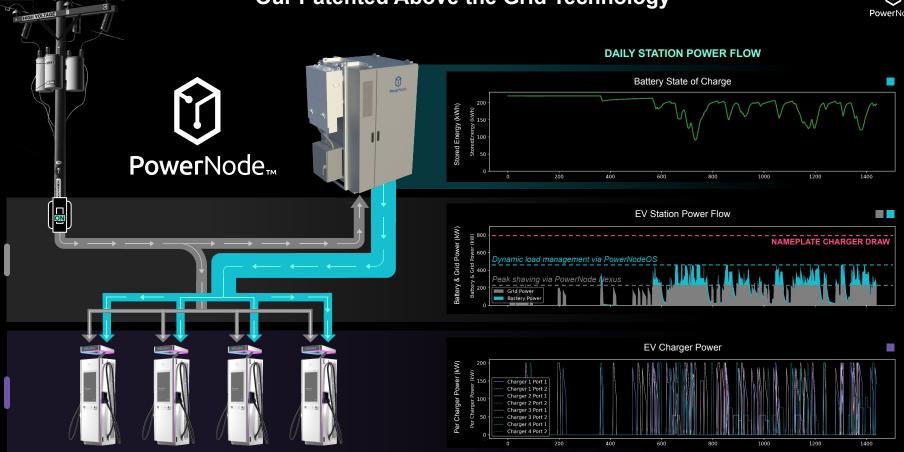
Based in Seattle.

Patented PowerNode charging system:

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Our Patented Above the Grid Technology



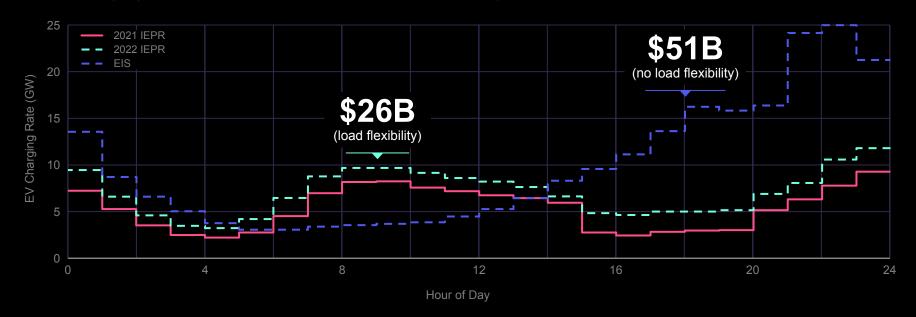


Load flexibility



California Energy Commission's 2035 Grid Upgrade Forecast¹

2035 charging load profile and associated distribution upgrade costs



¹ CalAdvocates Distribution Grid Electrification Model Study and Report

PowerNode at Plaid Pantry in Portland



REDUCED TIME TO MARKET FROM 18 TO

5 months

AVOIDED EXPENSIVE GRID & TRANSFORMER UPGRADES

25kW OF GRID POWER

>150kW

OF DCFC POWER

99.5% UPTIME

DEMAND CHARGES REDUCED BY \$93k



Summary



Issues to keep an eye on



Grid demand from EV adoption



Charger reliability



ODOT Programs

1. National Electric Vehicle Infrastructure (NEVI)

\$52 MILLION OVER 5 YEARS

2. Electric Vehicle Charger Reliability and Accessibility Accelerator (RAA)

\$10 MILLION IN 2024 AWARD



THANK YOU!

