



Stabilizing the Grid with Vehicle to Grid (V2G) Technology

January 9, 2025

AGENDA

- Nuvve Introduction
- Nuvve's Mission
- Bi-directional Solution
- Nuvve's Platform & Services
- Cajon Valley Union School District- V2G Host site
- ELRP Program Results
- V2G & Battery Health
- Q&A



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Who is Nuvve?

Nuvve's proprietary vehicle-to-grid (V2G) technology enables the linking of multiple electric vehicle (EV) batteries through EV charging stations into a virtual power plant (VPP) providing bi-directional services to the electrical grid in a qualified and secure manner.



- The company generates revenue from bidding onto energy markets and creates energy savings for its customers
- Nuvve's technology and ecosystem has proven to successfully lower the cost of electric vehicle ownership, while supporting the integration of renewable energy for a scalable and sustainable green society.

Company Overview

Business Overview

Nuvve's vehicle-to-grid (V2G) SaaS technology platform dynamically manages power between EV batteries & the grid, driving recurring revenue off an expanding installed base

Core Technology

Developed over 2+ decades, the Company's Grid Integrated Vehicle (GIVE™) software utilizes advanced AI analytics to optimize fleet charging and interactions with the grid

Intellectual Property

Defensible IP portfolio, including 20 issued and pending patents across both their hardware and software offerings

Partners & Customers

Trusted to provide energy & grid services to the leading global utility and energy companies, as well as close technology development partnerships with Auto & Charging OEMs

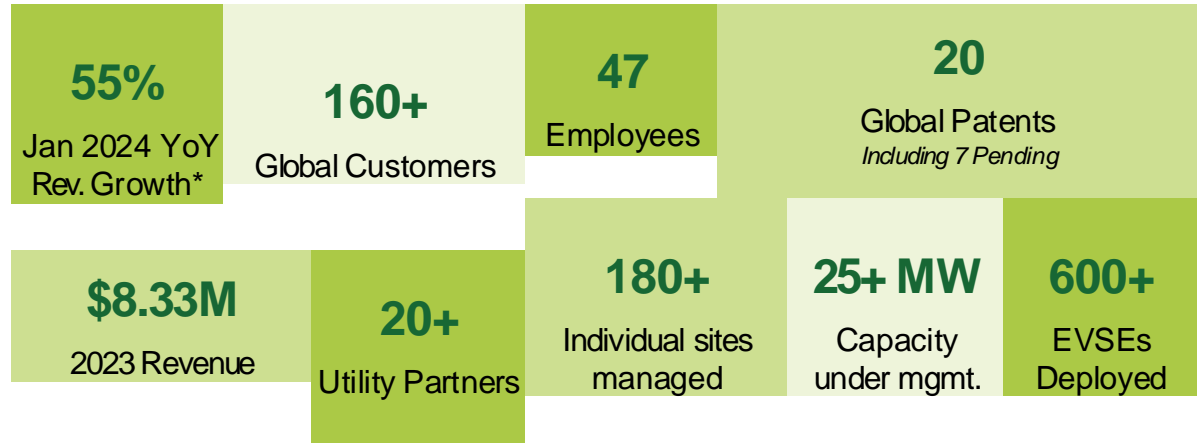
Installed Base

25 Megawatts under Management (MWuM) as of Dec 2023 for 160+ customers across 180+ customer sites, a 45% increase in MWuM from a year prior

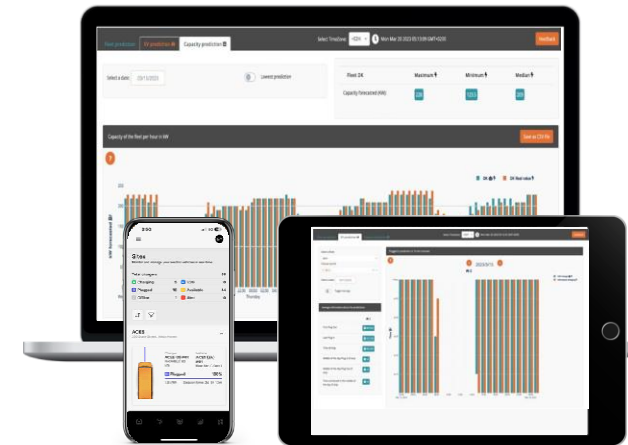
Financial Profile

Robust business momentum, 2023 revenue of \$8.33 M+ with key new customer wins

Key Stats: 2023 Rev +55% Over 2022*

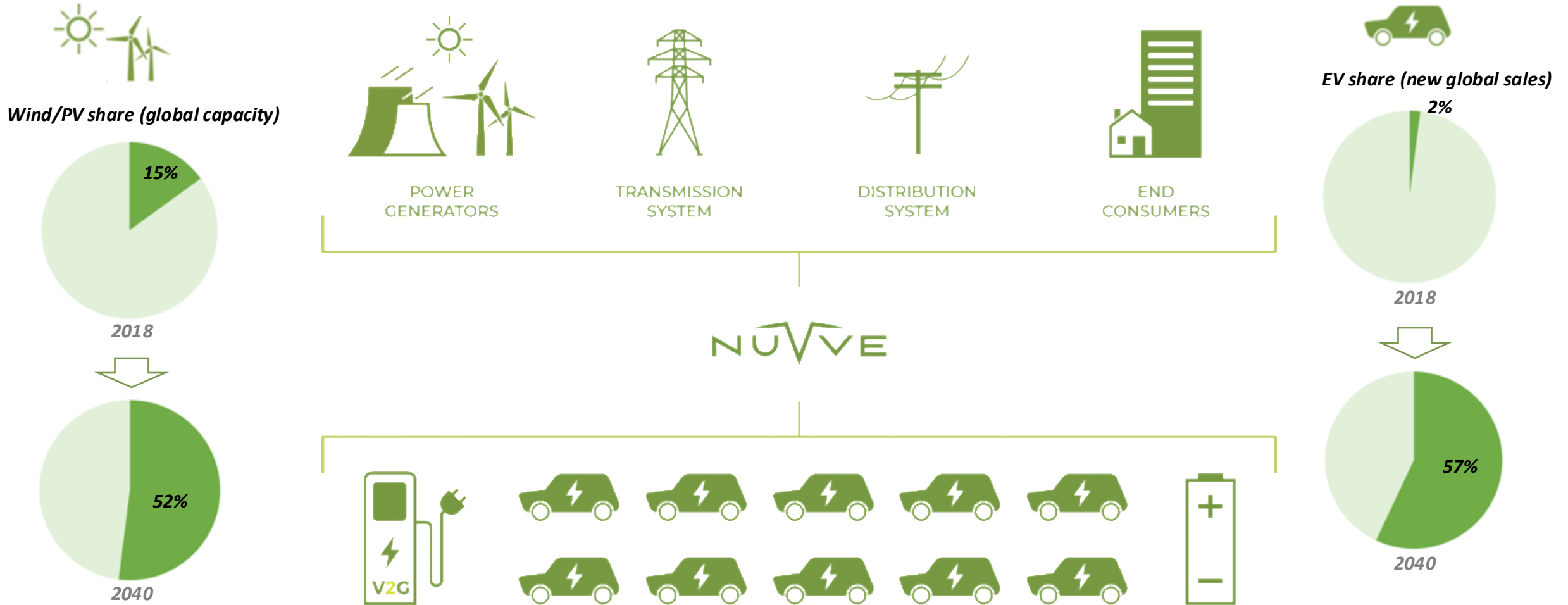


First innovator of **Vehicle-to-Grid (V2G)** technology, with the **only true commercial deployments** in the market to date



Our Mission

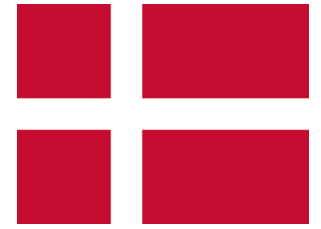
To lower the cost of electric vehicle (EV) ownership while supporting the integration of renewable energy for scalable and sustainable green society.



THE BIRTHPLACE OF COMMERCIAL V2G



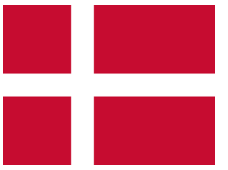
Denmark



- 8+ years of continuous V2G operations in Denmark
- Total of 43 light-duty vehicles located around the country
- Commercial fleets, municipalities, and utilities
- Grid services: frequency regulation
- Supporting Danish offshore wind renewable integration to the grid

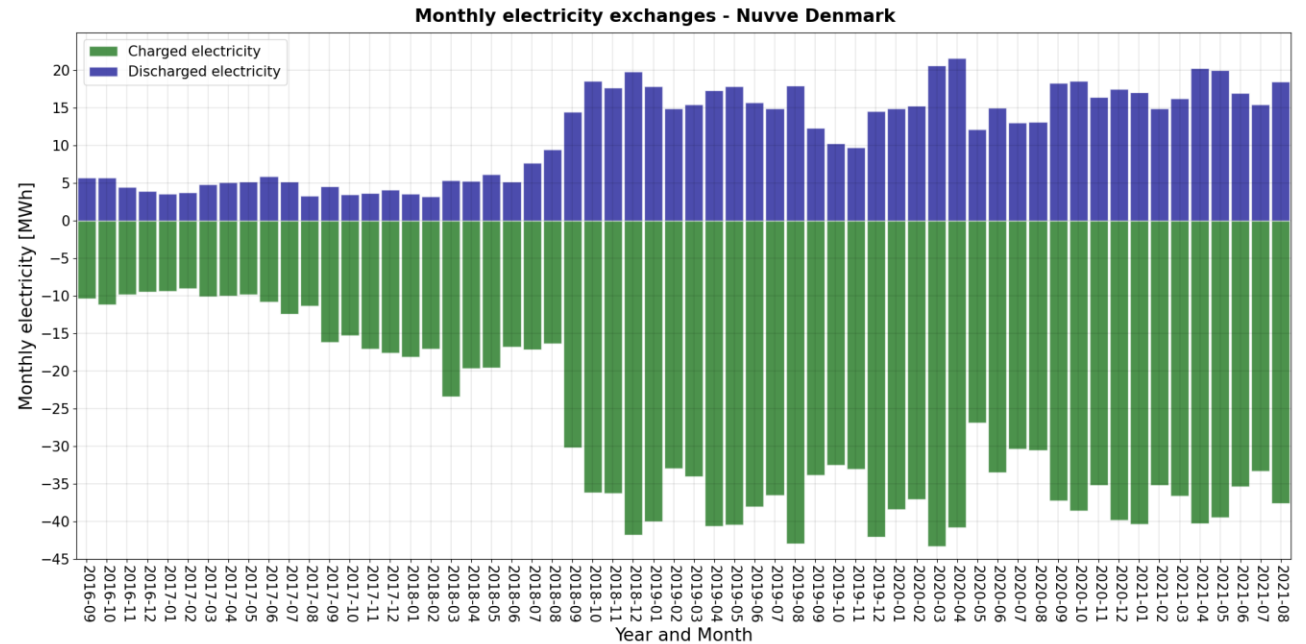


Energy in/out and Average Revenue Per EV



- Average of \$2,000 in revenue earned per EV per year
- Variation affected by energy market prices and vehicles being aggregated

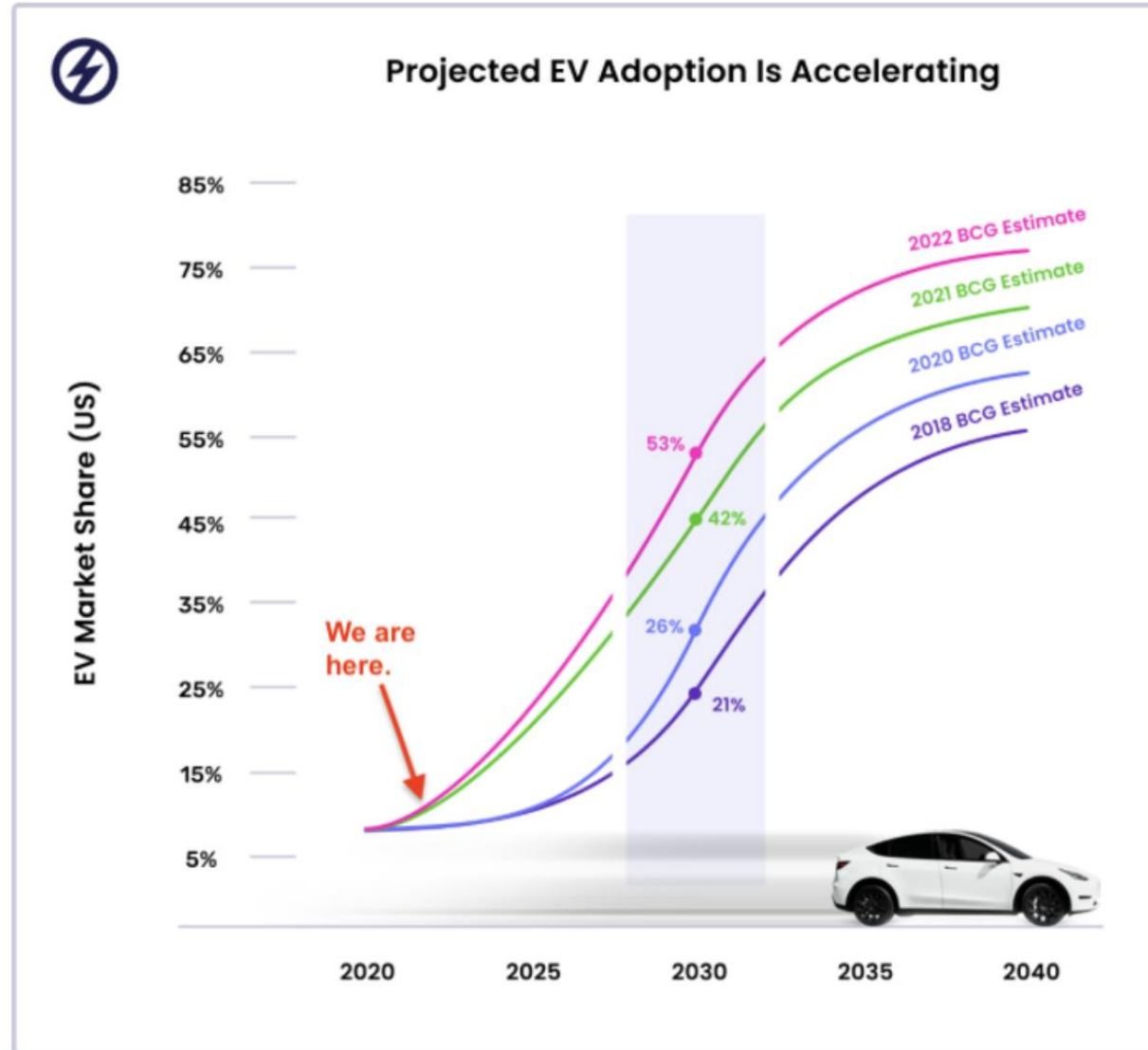
Year	Revenues per bid EV
2018	\$2,342 USD
2019	\$2,325 USD
2020	\$1,269 USD
2021 (until end of August)	\$1,890 USD



Nissan Leaf battery size: 24 to 40kWh
 Charging station capacity: 10kW
 One sixth of a school bus

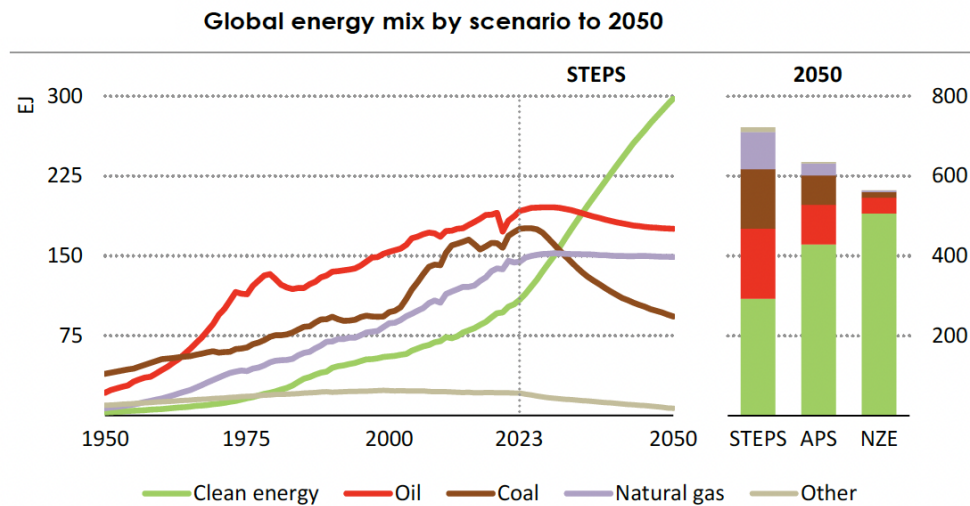
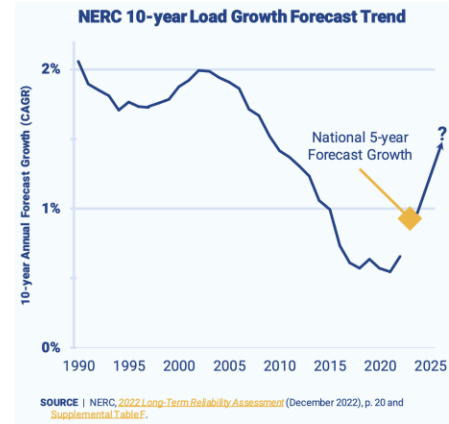


We Are Still Very Early In The EV Deployment

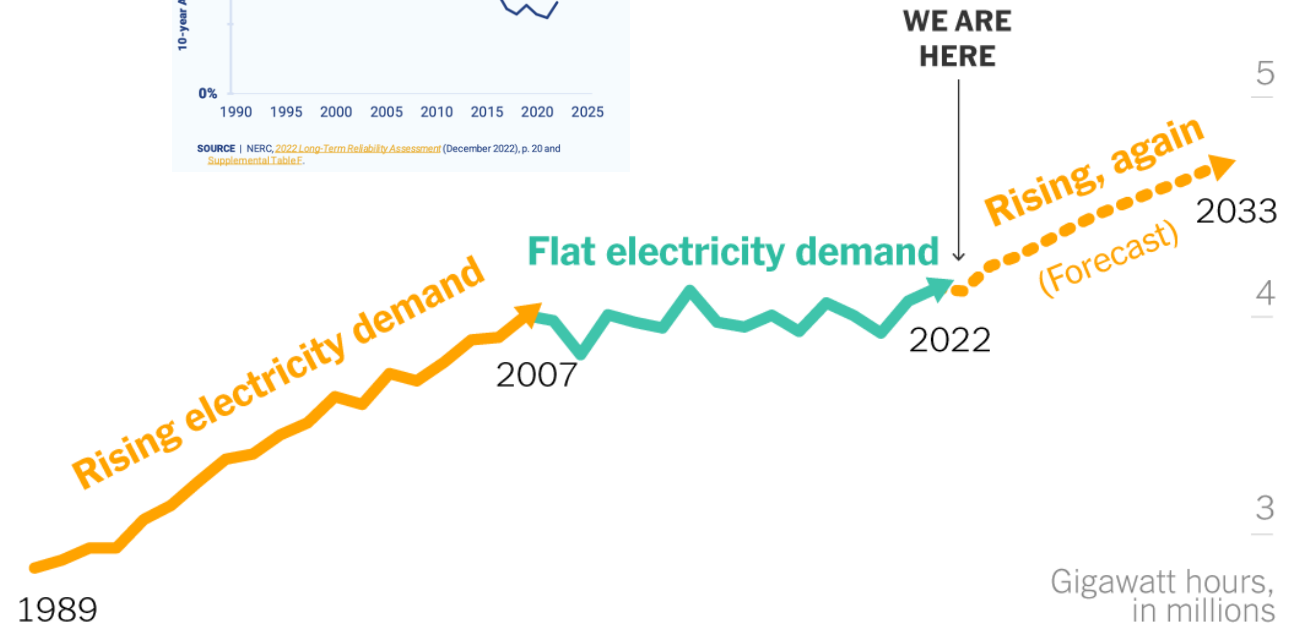


The New Paradigm

- While we are transitioning to renewable generation, the load is increasing for the first time in 25 years
- Growth is driven by heating, cooling, data centers and later one EV's

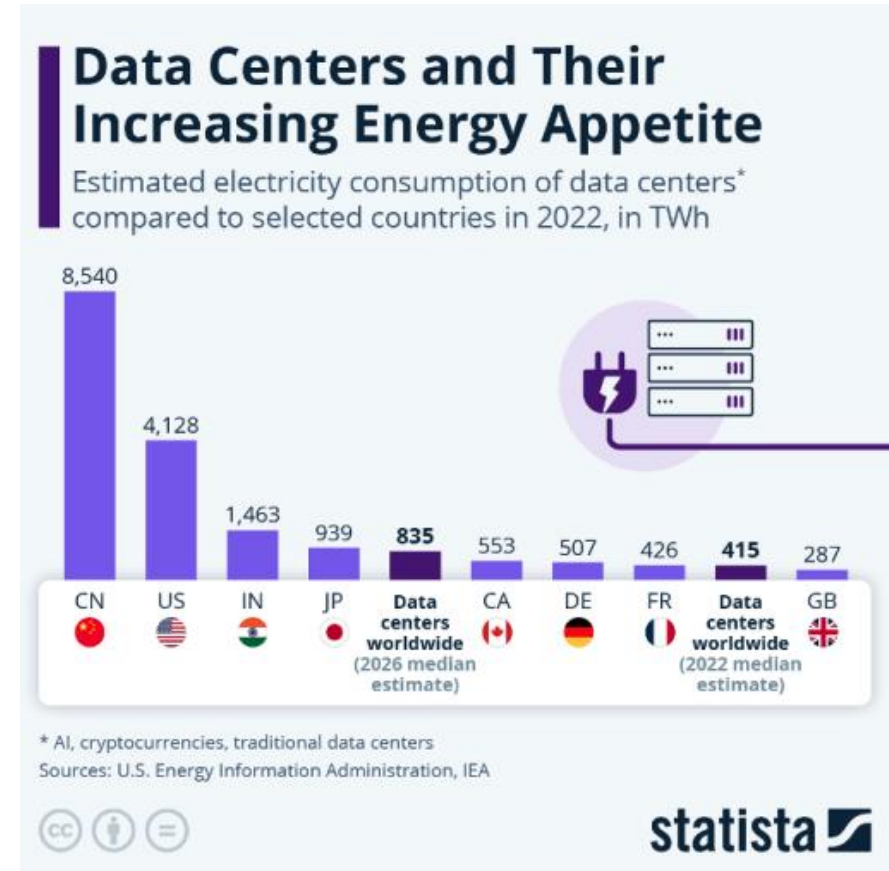
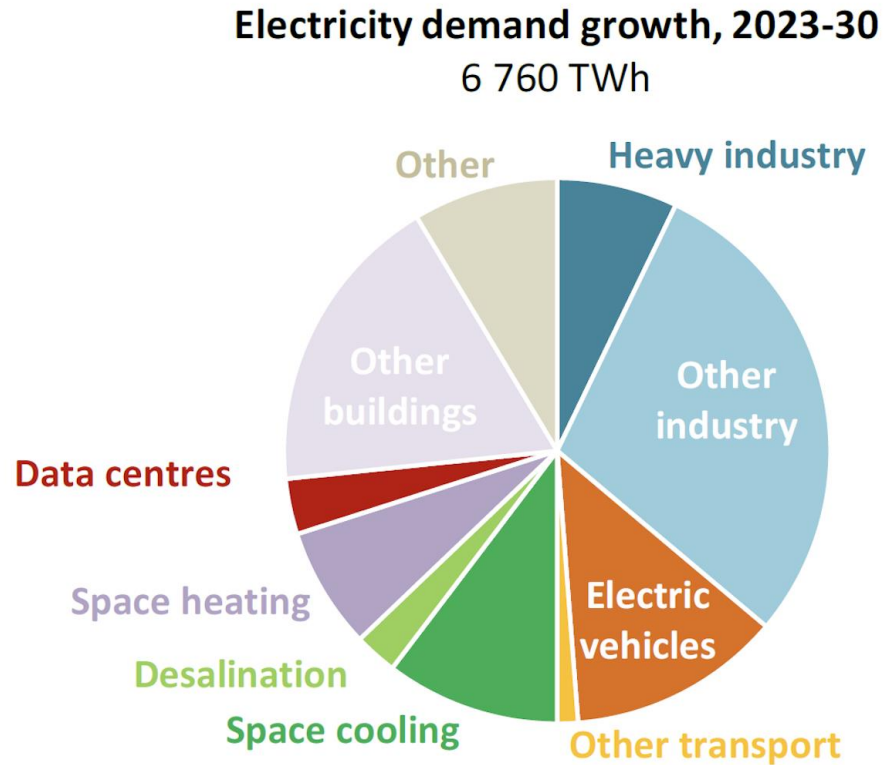


IEA. CC BY 4.0.



The New Loads

Growth driven by electrification and climate impact

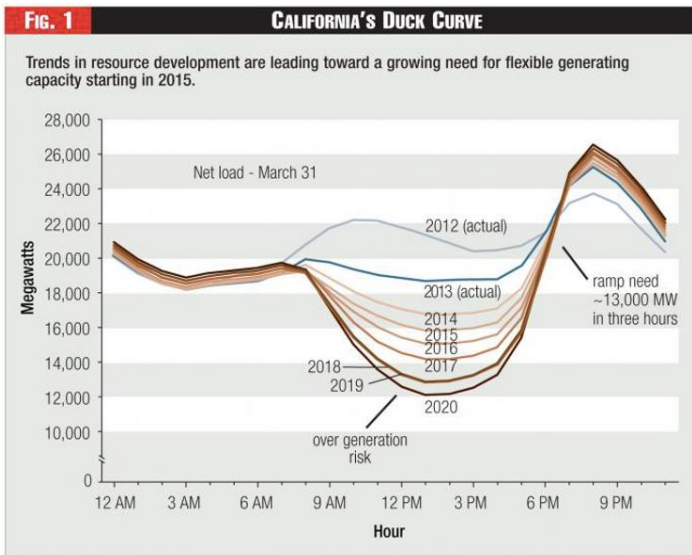


<https://www.intellinews.com/how-energy-intensive-are-data-centers-335244/>



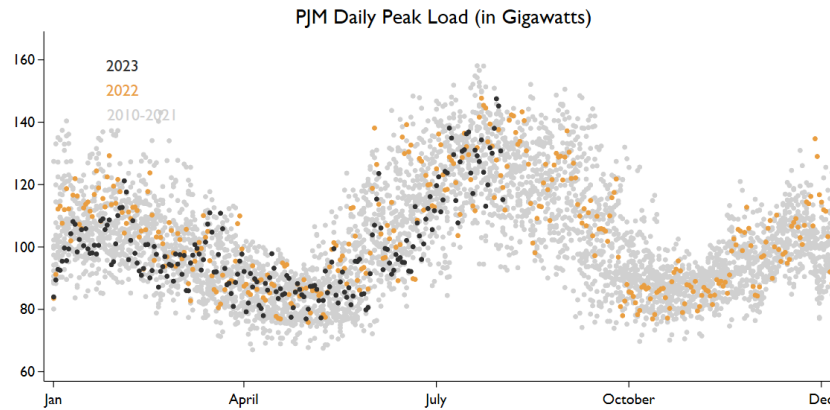
The Different Layers Of Volatility

- Yearly



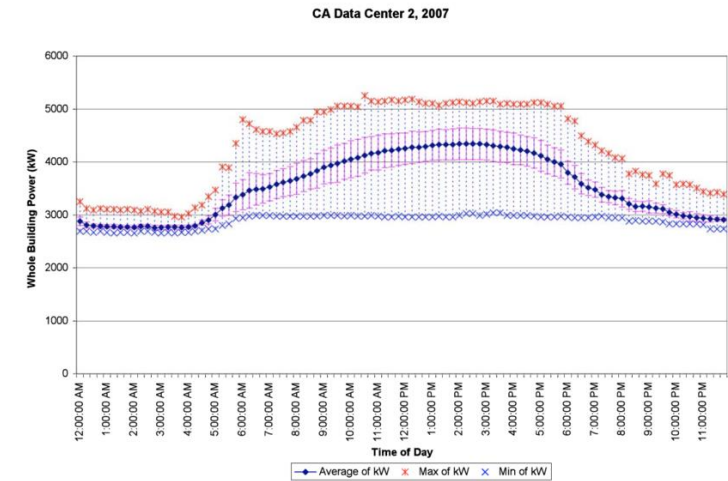
<https://energythaas.wordpress.com/2023/03/13/californias-duck-belly-blues/>

- Daily



<https://energythaas.wordpress.com/2023/07/31/are-record-temperatures-causing-record-u-s-electricity-consumption/>

- Hourly



https://www.researchgate.net/figure/Data-Center-2-Daily-Load-Shape-in-2007-Summer-and-Winter_fig2_255215593



Nuvve's Platform And Services



Electric vehicles go from being unreliable resources into reliable, dispatchable and monetizable assets.



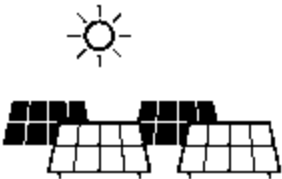
Reduces the cost of EV ownership, encourages EV adoption



Helps stabilize the grid with Nuvve's bidirectional charging



Guarantees vehicle will be set for use by owner when needed



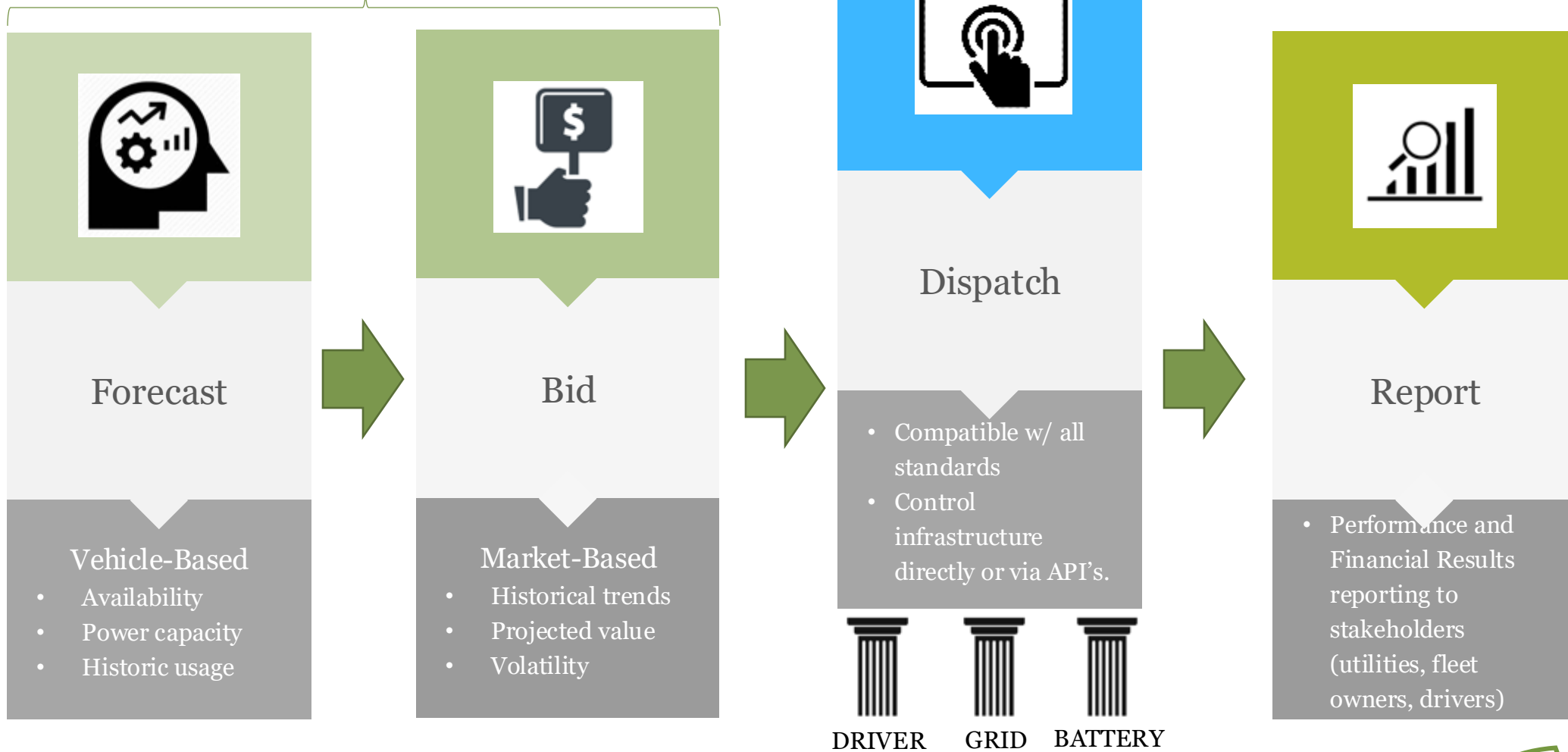
Enables increased renewable penetration



Optimizes and protects the vehicle battery

Nuvve Platform Implementation

AI Integration





Barcelona, Spain



Bornholm, Denmark



Culver City, CA



London, UK



UCSD, San Diego CA



Newark, Delaware



Corsica, France

V2G



Torrance, CA



El Cajon, San Diego CA



Manila, Philippines



Nagoya, Japan

NUVVE



CDG Airport, Paris



Windhoek, Namibia



San Jose, CA



Nice, France



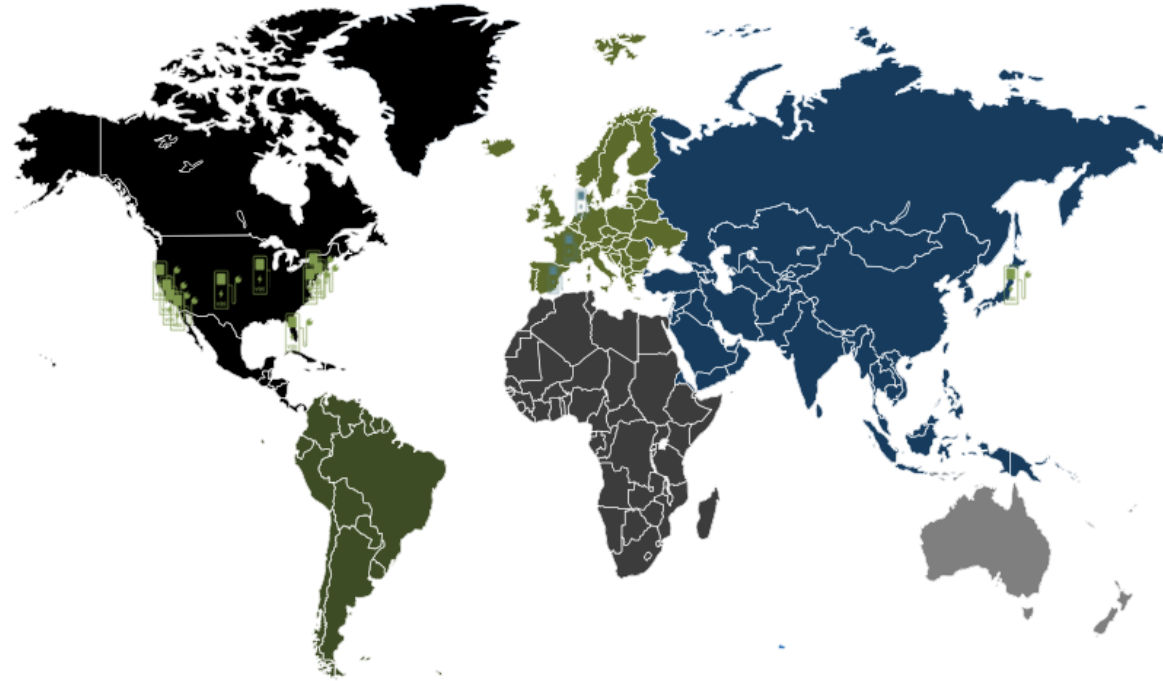
Frederiksberg, Denmark

ary and confidential. Not for external

UTILITY PARTNERS AROUND THE WORLD

United States:

- PGE
- PG&E
- SCE
- SDG&E
- La Plata Energy Association
- Ameren
- New Hampshire Electric Co-Op
- Con Edison
- FPL



Europe:

- GALP
- EDF

Asia:

- Chubu Electric Power

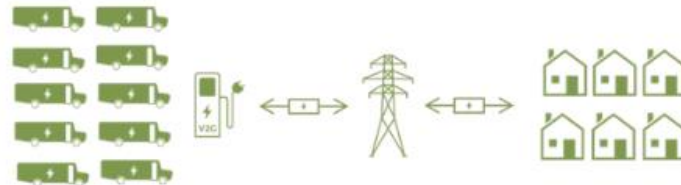


V2G HUBS: TURNING EVs INTO POWER PLANTS

- Nuvve's platform aggregates energy and power capacity from multiple EV batteries to form a virtual power plant (VPP)
- The VPP can provide services to the grid that add capacity, help stabilize it, and prevents blackouts

The Power of V2G Hubs:

- If you have 200 buses connected at 125kW = 25MW of capacity
- 25MW would be capable of reducing peak consumption of 10,000 homes by 50%



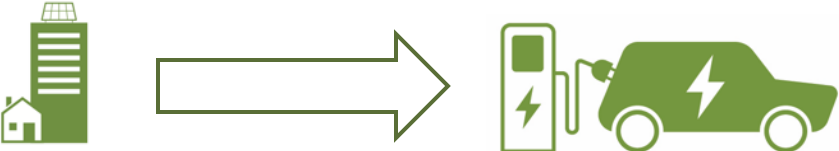
Value (Revenue) Proposition

- Nuvve is capable of providing all levels of Vehicle Grid Integration, including V2G, providing revenues from grid services and utility bill savings behind the meter.

Value Proposition

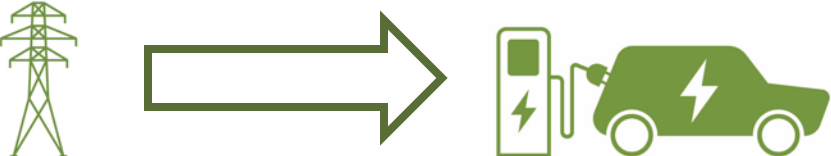
Smart Charging

Binary Stop/Start charge at scheduled times



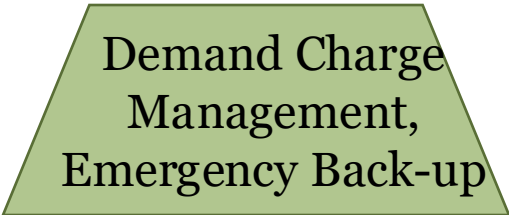
V1G

Dynamic charge rate based on external signals



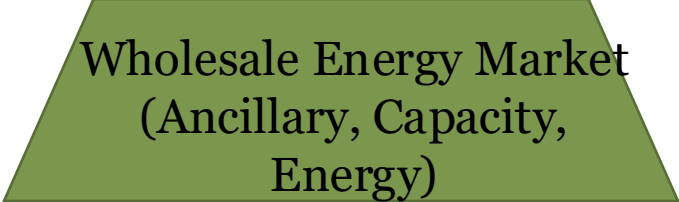
V2H / V2B

Bi-directional capable, connected to buildings, able to respond to tariff signals.



V2G

Interconnected energy storage that can respond to fast grid signals and participate in energy markets



(1) TOU = Time of Use Optimization



California Heat Wave Impact On The Grid

“The heat wave of September 2022 was one of the most challenging events in the history of the ISO grid.”

-Elliot Mainzer, CAISO President and CEO

HEAT RECORDS – SEPTEMBER 1-10

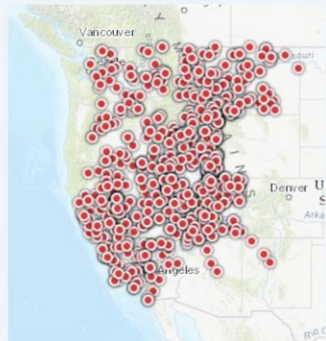
28 California cities broke or tied all-time records for maximum temperatures.

- Sacramento – 116
- San Jose – 109
- Livermore – 116

Across the West:

- 2,864 daily highest maximum temperature records tied or broken
- 2,074 daily high minimum records tied or broken

Highest **maximum** temperature records



Highest **minimum** temperature records



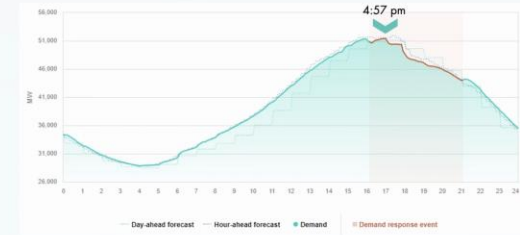
California ISO

DEMAND RECORDS FOR SEPTEMBER 6, 2022

ISO all-time record
52,061 MW

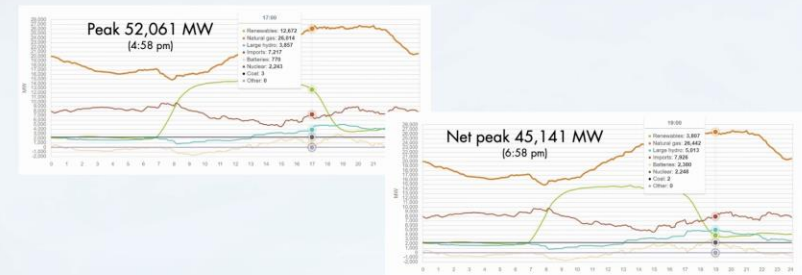
Western Interconnection record
167,500 MW

RC West record
130,920 MW



California ISO

SEPT 6 PEAK AND NET PEAK RESOURCE STACK



California ISO

Host Site: Cajon Valley USD

CAJON VALLEY UNION SCHOOL DISTRICT

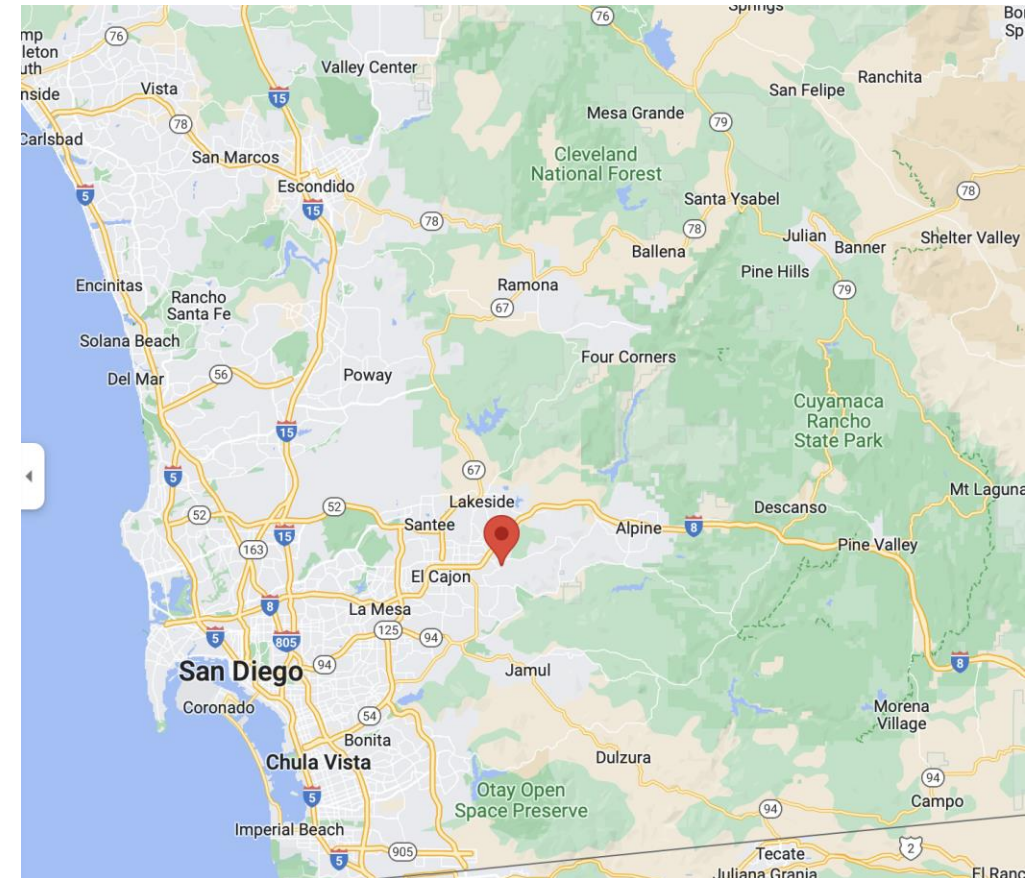
OUR SCHOOLS I WOULD LIKE TO...

About Us Leadership Departments School Information Enrollment Employment Contact Us

2022 CELEBRATION VIDEO

WATCH HERE

SCROLL DOWN



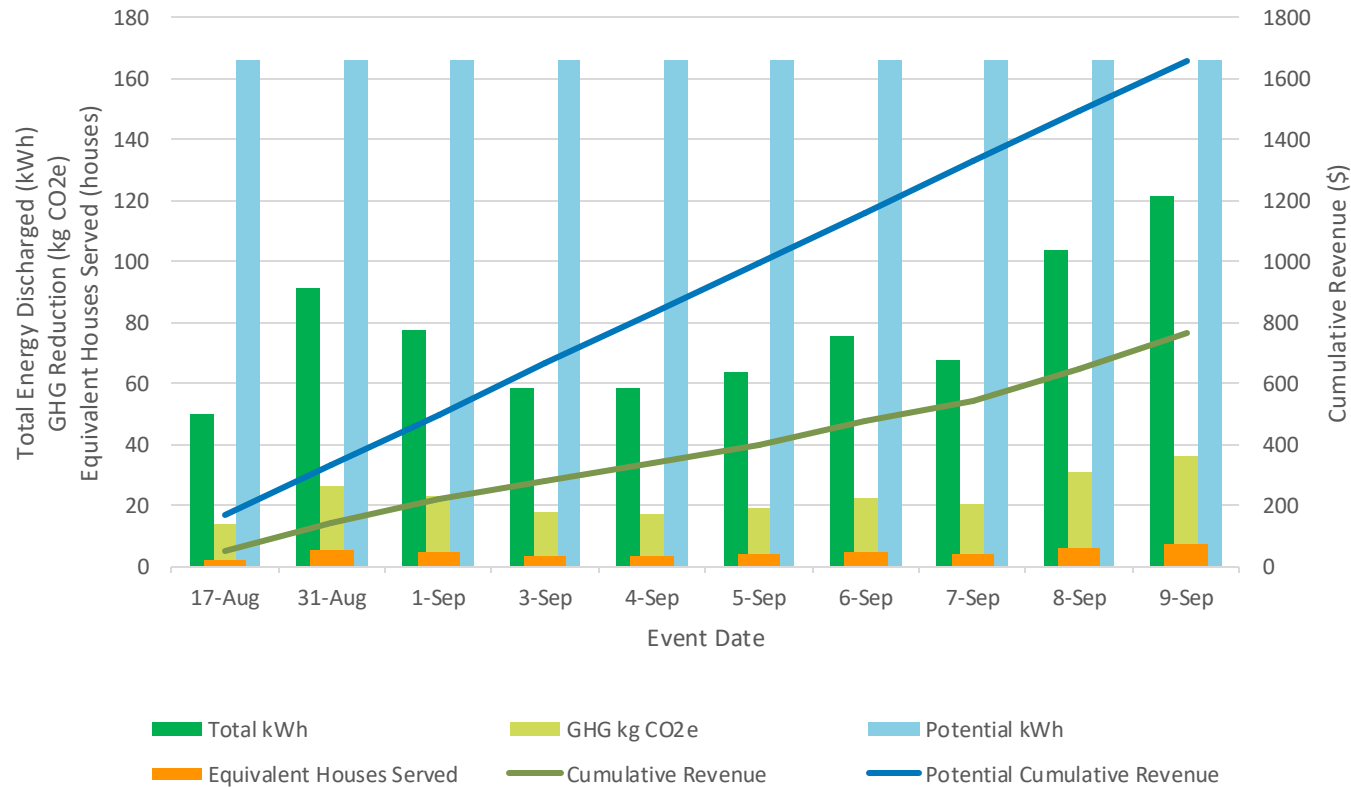
Cajon Valley USD



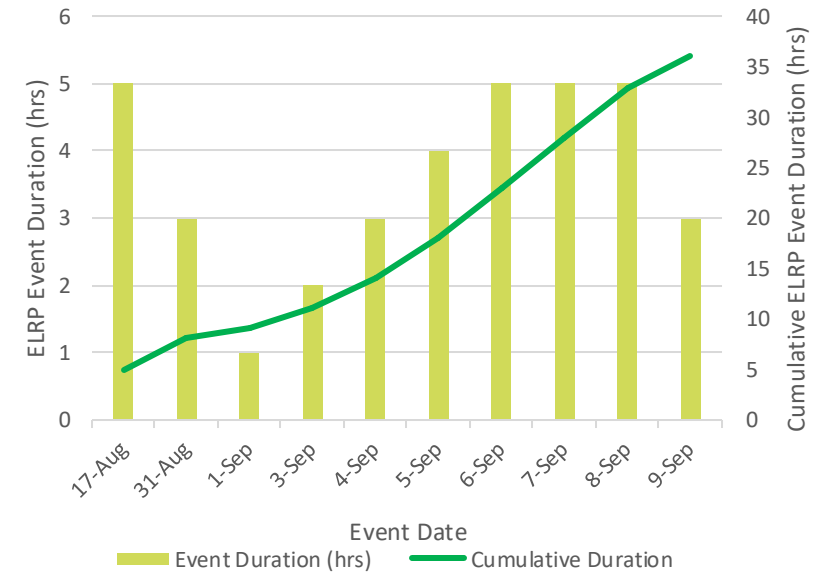
ELRP Program Results

10 Events between 17 August and 09 September 2022

Total kWh Discharged per Event and Cumulative kWh



ELRP Event Duration per Event Date



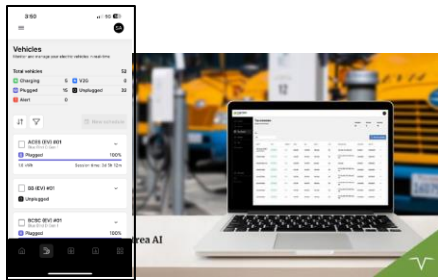
The Most Advanced EV Management Platform

GIVE™ is an incredibly flexible, futureproof and full-service platform that enables precise interaction between EV fleets and utility markets

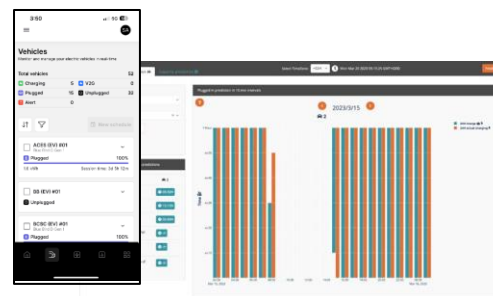
Utilizes a purpose-built AI platform (Astrea AI) that forecasts fleet availability and aggregates energy capacity for grid operators to meet reliability needs

AI leverages information from multiple databases developed over decades to track utility tariffs and forecast market pricing with 97% accuracy

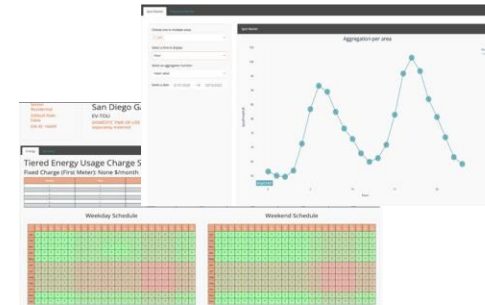
Key Platform Features



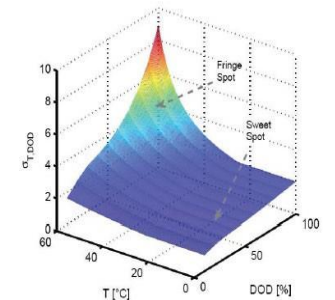
AI-Assisted Charge Management



Fleet Forecasting & Vehicle Readiness



Utility Tariff Database & Market Price Forecasting



Battery Life Optimization

Q & A



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THANK YOU



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