



NARUC EV Working Group

April 29, 2025

Britta Gross
Katherine Stainken

Agenda

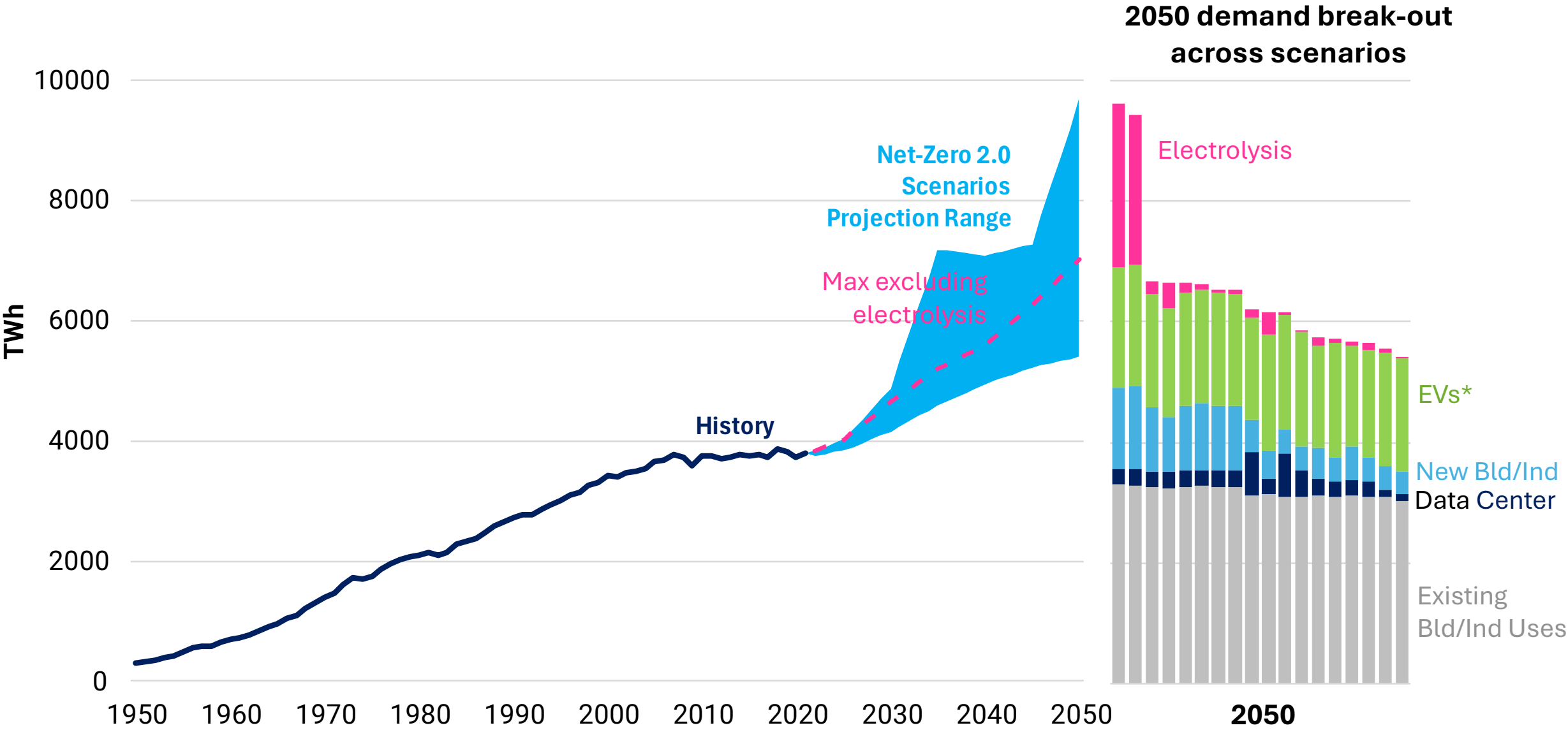


1. EVs2Scale general program updates
2. GridFAST tool
 - Voice of the utility and the fleet clips:
 - *Taki Darakos, VP of Maintenance and Fleet Services, PITT OHIO*
 - *Patrick Pennel, Sr. Advisor, Business Development & Partnerships, Customer Service – e-Mobility, SCE*
3. Grid Connection report for small fleets and MFH
4. GridREADY resource
5. Where EVs2Scale resources are being used

EVs2Scale General Program Updates



Electricity Demand Grows in All Scenarios

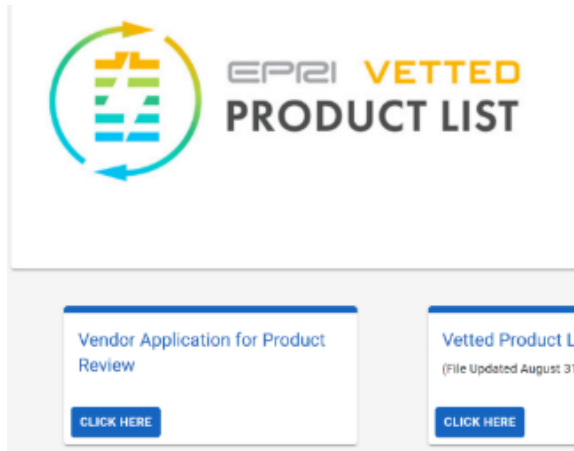


Source: LCRI Net-Zero Scenarios 2.0 Report, lcri-netzero.epri.com

* Does not reflect full range of uncertainty for EV adoption and efficiency. See EPRI report [Valuing Improvements in EV Efficiency](#) for more details.

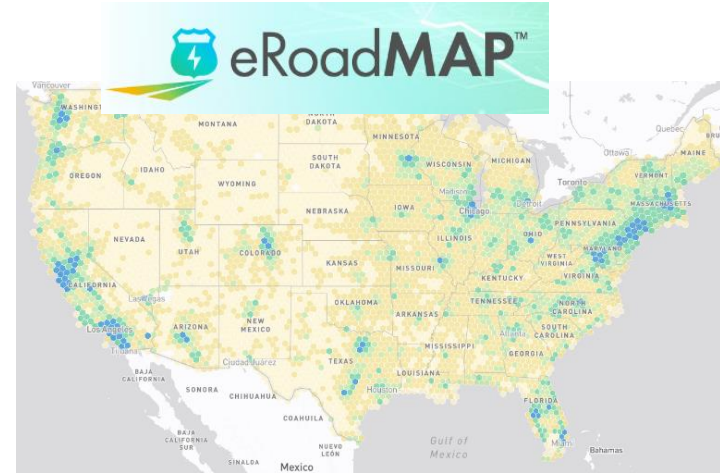
4 Major EVs2Scale Deliverables now Released

1



- 105 vendors and 750 products "listed"
- Vendors now have access to over \$1.8B in utility and state grant programs

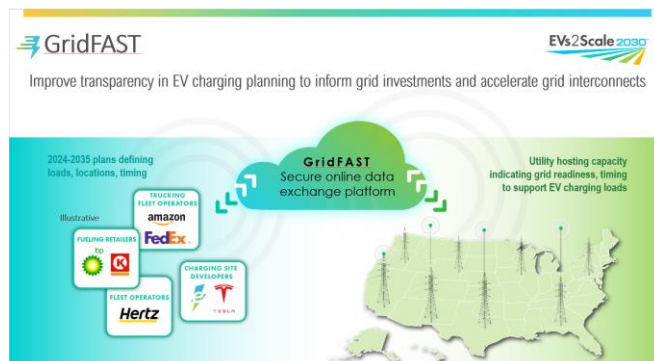
2



- Visualization of planned/expected EV loads
- Cited in over 10 state proceedings to date

3

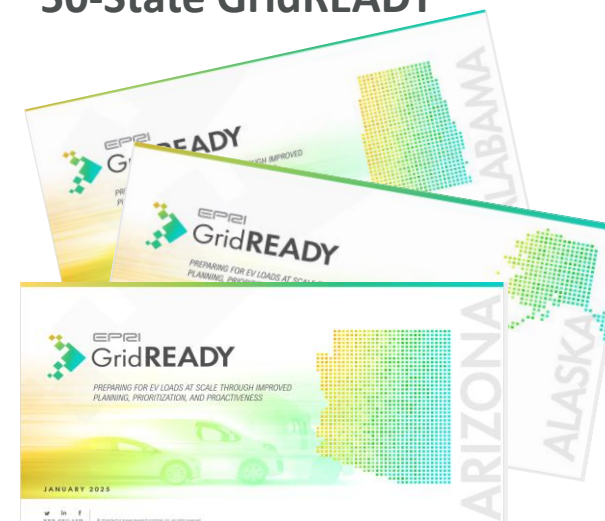
GridFAST



- Industry portal for early project planning (and ultimately service requests)

4

50-State GridREADY



- Promotes a common data-based understanding of need for proactive grid planning
- Available to all NGOs and state leaders
- No state left behind

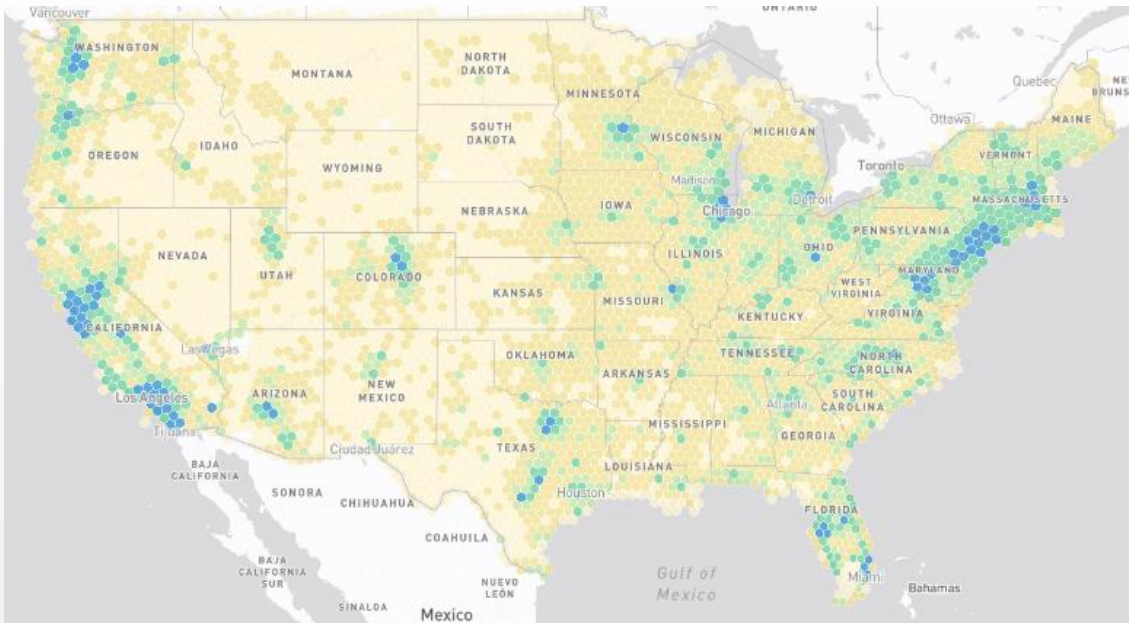
Confidence requires creating Public and Private Transparency in Planning



eRoadMAP

Public Tool

Visualization and Communication (Hex8)

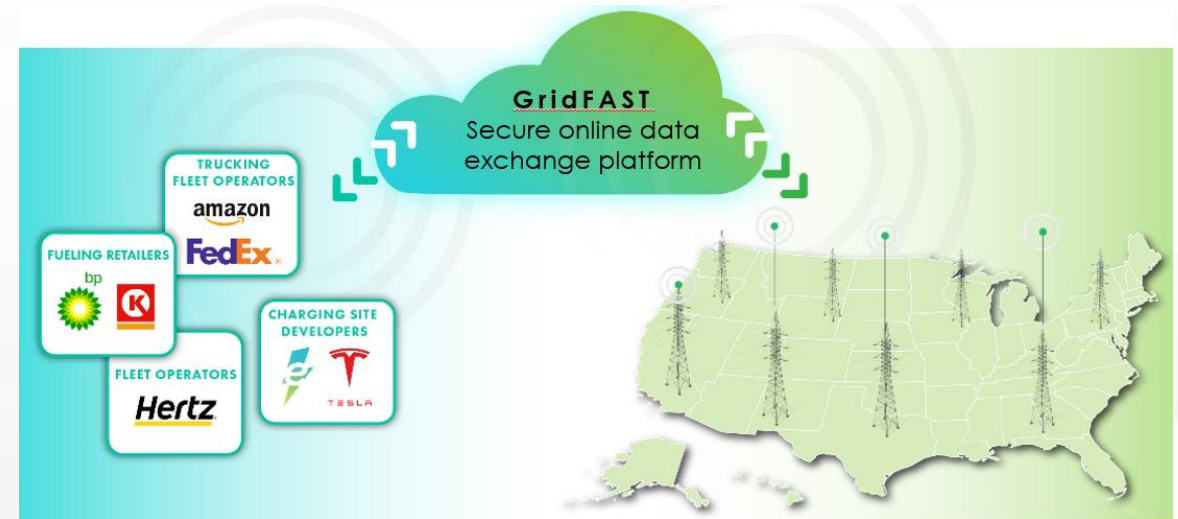


<https://erodmap.epri.com/>

GridFAST

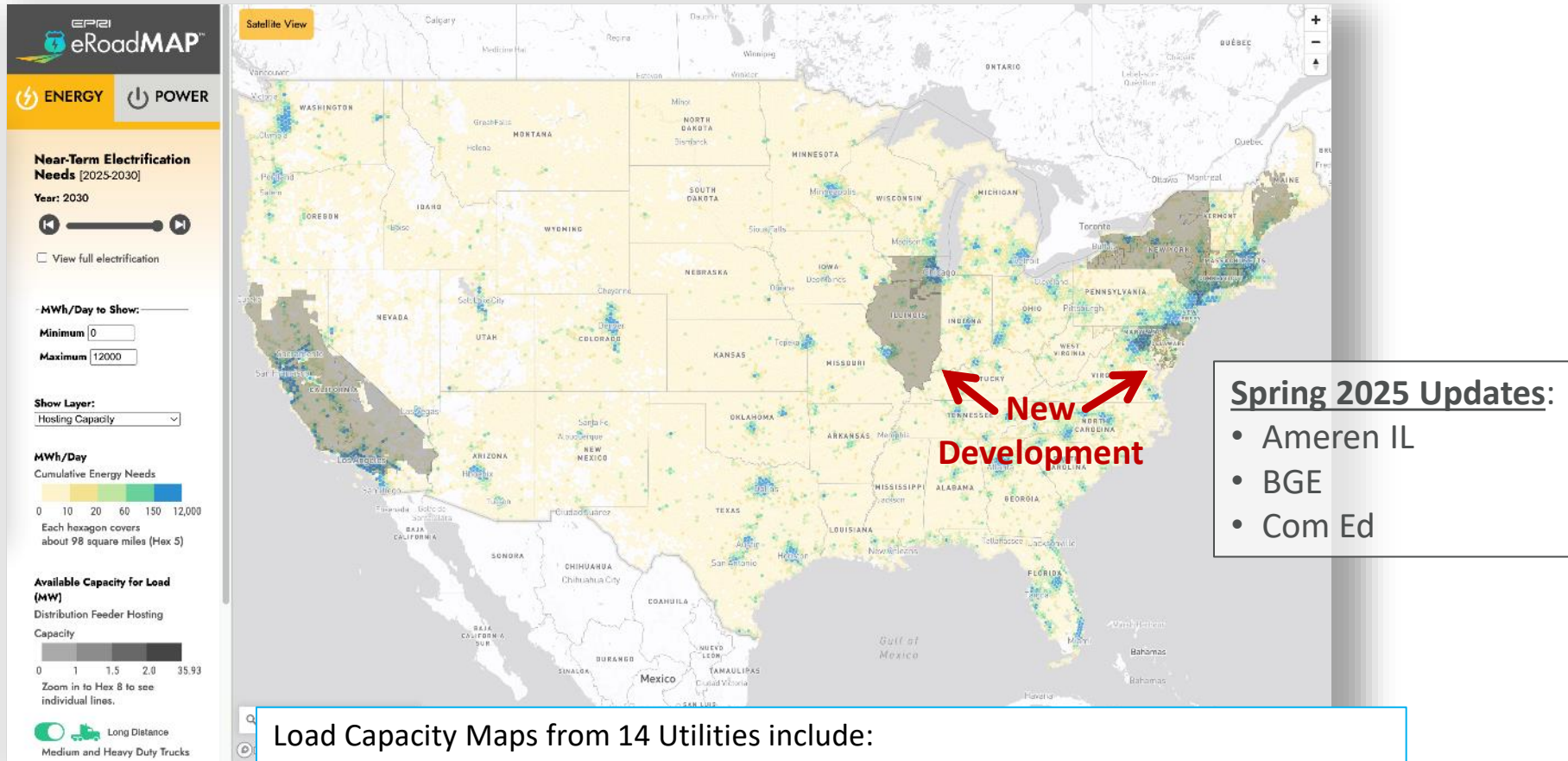
Industry Platform

Planning and Accelerating Grid Interconnects (site level)



Soft Launch March 2025

eRoadMAP includes Utility Load Hosting Capacity Maps



eRoadMAP includes Utility Load Hosting Capacity Maps

eRoadMAP™

ENERGY POWER

Near-Term Electrification Needs [2025-2030]

Year: 2030

View full electrification

MWh/Day to Show:

Minimum 0

Maximum 12000

Show Layer: Hosting Capacity

MWh/Day Cumulative Energy Needs

0 10 20 60 150 12,000

Each hexagon covers about 98 square miles (Hex 5)

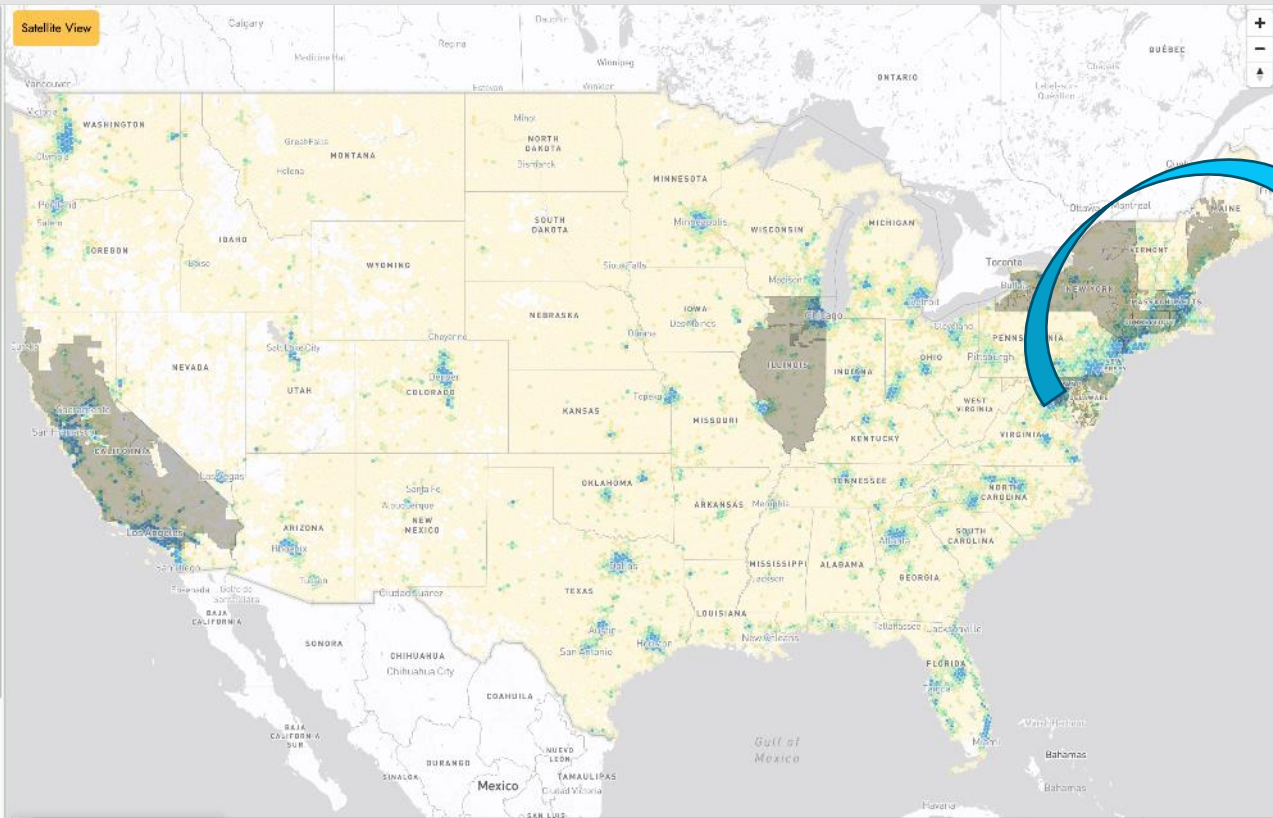
Available Capacity for Load (MW)

Distribution Feeder Hosting Capacity

0 1 1.5 2.0 35.93

Zoom in to Hex 8 to see individual lines.

Long Distance Medium and Heavy Duty Trucks



2027 – PA/NJ/DE/MD

Line Capacity

NJ1544

Load Capacity (MW): 2.7

Data Source: PHI

Updated by Utility: Unknown

Retrieved by EPRI: Nov 13, 2024

Hexagon Info

Utility: Atlantic City Electric Co

Energy (MWh / Day)

Light Duty	0.002
Medium / Heavy Duty	0.002
Total	0.004

Peak Power (MW)

	Unmanaged	Managed
Light Duty	0	0
Medium / Heavy Duty	0.001	0.001
Total	0.002	0.001

Numbers are rounded for display purposes.

Hex Level 8 ID: 882aaca1ebffff

Load Capacity Maps from 14 Utilities include:

- **California:** PG&E, SCE, LADWP
- **Connecticut:** Eversource, United Illuminating
- **Delaware:** Delmarva
- **Maine:** Central Maine Power
- **Massachusetts:** National Grid
- **Maryland:** Pepco, Delmarva
- **New York:** National Grid, ConEd, Orange & Rockland, Central Hudson, NYSEG, and Rochester G&E
- **New Jersey:** Orange & Rockland, Atlantic City
- **Rhode Island:** Rhode Island Energy

eRoadMAP™ - Grid capacity integration



Ongoing outreach effort: (1) public capacity maps, (2) support utilities to publish their capacity maps

Currently Integrated in eRoadMAP:

- Ameren-IL*
- Atlantic City Electric (Exelon)
- Baltimore Gas & Electric (Exelon)*
- Central Maine Power
- Central Hudson Gas & Electric
- Commonwealth Edison (Exelon)*
- ConEdison
- Delmarva (DE, MD) (Exelon)
- Eversource
- LADWP
- NYSEG
- National Grid (MA, NY)
- Orange & Rockland
- Pepco Holdings (Exelon)
- PG&E
- Rhode Island Energy
- Rochester G&E
- SCE
- United Illuminating

* Next release
EVs2Scale Participant

Potential Integration

(public capacity maps):

- Dominion – *ongoing conversation*
- DTE – *ongoing conversation*
- HECO
- HydroOne – *ongoing conversation*
- Indiana-Michigan Power (IMP)
- NV Energy
- PECO
- PSE&G (NJ)
- Puget Sound – *ongoing conversation*
- San Diego Gas & Electric

Potential Integration

- Alliant Energy
- American Electric Power
- Austin Energy
- Center Point Energy
- Consumers Energy
- Duke Energy
- FirstEnergy (JCPL)
- Great River Energy
- JEA
- OPPD
- Portland General Electric
- Salt River Project
- Seattle City Light
- SMUD – *ongoing conversation*
- Southern Company
- Tennessee Valley Authority
- WEC Energy
- Xcel Energy (CO, MN)

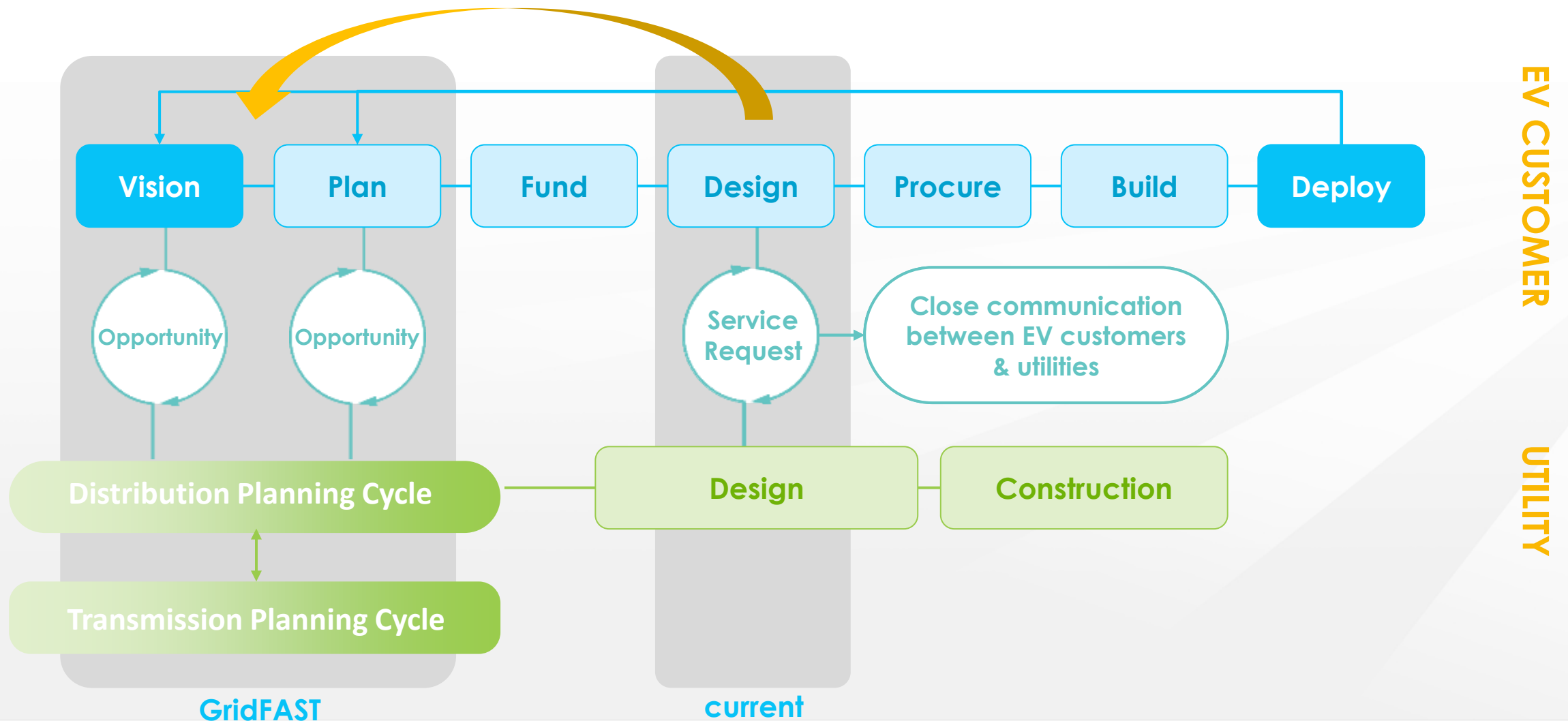
GridFAST

EVs2Scale 2030™



Grid Interconnection Problem

How might we help EV customers and utilities get actionable information earlier?



Vision & Strategy

Provide tools to educate fleets and **make the case for electrification**

Help fleets forecast where/when to electrify (beyond 2 years) to **drive more certainty in fleet plans**

Create a standard practice (across utilities) to gather fleet plans early so **utilities can incorporate into D&T planning**

Validate fleet plans so utilities can confidently invest in costly grid upgrades

Help smaller utilities establish EV processes so they can better support EV projects

Plan & Forecast

Kickstart fleet communications with the right utility/POC to **eliminate nonvalue-added fleet efforts**

Educate fleets on electricity and utility processes and programs to **eliminate nonvalue-added utility efforts**

Help fleets gain more accurate insights into grid capacity, upgrade timelines and costs, so they can **select more viable locations**

Help utilities provide real-time, updated feeder capacity data so fleets can **select more viable sites before submitting a formal request**

Help fleets model and calculate charging and power scenarios to **minimize costly and potentially unnecessary grid upgrades**

Provide fleets with smart, interactive tools to alleviate utility bottlenecks (e.g., staff shortages) **without having to wait for a utility engineer**

Funding

Help fleets understand how to qualify/apply for grant and incentive programs so they have **full transparency into the process ahead of time**

Design & Engineering

Create a standardized process for service requests across the utility industry to minimize time-consuming and repetitive workload

Help utilities provide more timeline transparency to fleets (e.g. supply chain delays, resourcing, permits, easements) so **fleets can account for it in their project planning**

Approvals & Procurement

Set a standard for fleet x utility best practices to **minimize back and forth and timeline delays**

Improve transparency in EV charging planning to inform grid investments and accelerate grid interconnects

2024-2035 plans defining loads, locations, timing

Illustrative

TRUCKING FLEET OPERATORS
amazon

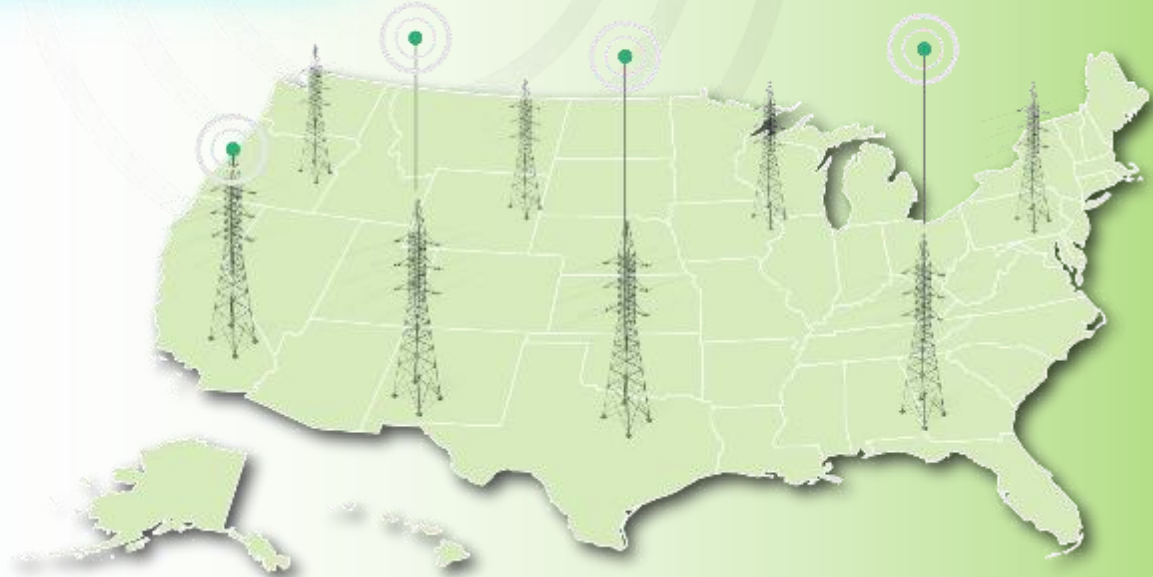
FUELING RETAILERS
bp **K**

FLEET OPERATORS
Hertz

CHARGING SITE DEVELOPERS
TESLA

GridFAST
Secure online data exchange platform

Utility hosting capacity indicating grid readiness, timing to support EV charging loads





GridFAST is Public

Explore the platform on <http://GridFAST.com>



GridFAST HOME PROJECTS MY COMPANY RESOURCES NOTIFICATIONS GridFAST

ABC Utility Welcome, Alex

2 New Project Matches 3 Projects Needing Curated Package

Customer Contacts
Search...
ABC Logistics Co

Matched EV Projects
> Filters

Utility Match (4)

- Cornish, two charging schedule for same fleet**
Frito-Lay 19 kW
Dec 15, 2025
SD-34, Highmore, SD, 57345
- Bronx Bus Depot** 2/2
DEF Telecom Co 22 kW
Mar 30, 2028
1392 Commerce Ave, Bronx, NY, 10461
- San Francisco EVs**
ABC Logistics Co 38 kW

Capacity Information Exchange (10)

- Bronx Bus Depot | XF001** 1/2
DEF Telecom Co 500 kW
Mar 01, 2026
1392 Commerce Ave, Bronx, NY, 10461
- DC Public Parking Expansion | DCEX-00142**
ABC Logistics Co 344 kW
Aug 26, 2026
311 18th St NW, Washington, DC, 20006
- Telecom Public Charging Project**

Preparation for Service Request (1)

- Virginia Bus Charging 3 | VBC-003**
ABC Logistics Co 56 kW
Aug 20, 2027
212 W 34th St, Richmond, VA, 23225

Initiate Service Request (1)

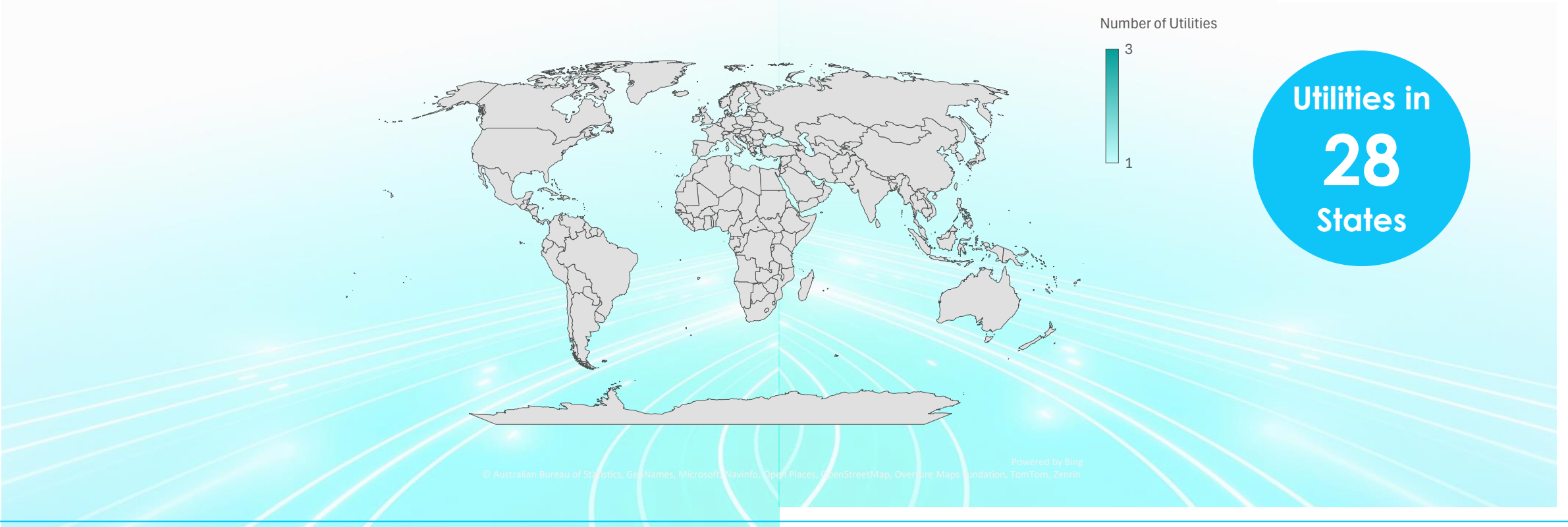
- Wisconsin Public Parking | WPP-152**
ABC Logistics Co 198 kW
Apr 20, 2028
710 Swan Dr, Mukwonago, WI, 53149

Search Projects... SEARCH



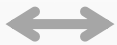
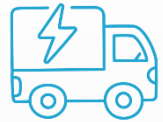


Utilities Continue to Join



The benefits of GridFAST increase as more users engage

EV Customers



~ 3,200 US Utilities



GridFAST Lite
(Free version – limited coordination)

Match-making



GridFAST
(Industry portal for project planning)

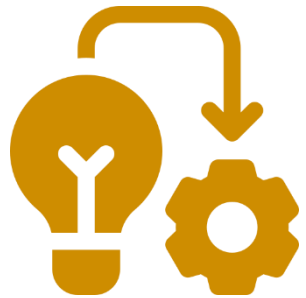
Customer and utility coordination



GridFAST+
(Full service request functionality)

Service Request via API

How GridFAST works at each project stage



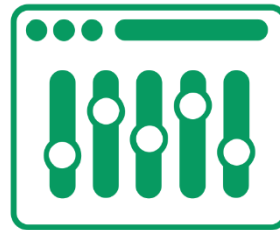
Project Input

EV customers enter their project concepts into GridFAST, and can view hosting capacity maps, if available



Utility Match

GridFAST matches EV projects to the relevant utility to start the exchange based on vetted information



Capacity Information Exchange

GridFAST is an easy and secure system for utilities to provide program and processes info to EV customers



Preparation of Service Request

EV customers finalize project details



Service Request

EV customer information in GridFAST submitted to utility when they're ready to move forward

GridFAST | Customer's Project Summary View



GridFAST HOME PROJECTS MY COMPANY RESOURCES NOTIFICATIONS GridFAST AC

ABC Logistics Co
Welcome, Alice

Start Your GridFAST Journey Here
+ CREATE PROJECT

Start your EV project at any stage and share key details with the right utility to get support for load estimation and expedite electrification.

Utility Contacts

Search...

- ABC Utility**
 - AU Alex Uttilty
Alex's email address
- Southern California Edison Co.**
 - XH Xuan Hua
Xuan's email address
- Pacific Gas & Electric Co.**
 - DK Dean Kunesch
Dean's email address
555-123-1234
 - PP Polly PG&N
Polly's email address
- Minnesota Valley Electric Coop**
 - OU Oliver Utility
Oliver's email address
- Portland General Electric Co.**
 - PU Portia Uttilty
Portia's email address

My EV Projects

> Filters

Search Projects... SEARCH

Project Input (2)

- ABC Fleet charging | ABC**
Aug 19, 2027 907 kW
1044 Pilgrim St, Stockton, CA, 95205
Pacific Gas & Electric Co.
- ABC Fleet Charging 2 | Lodi fleet**
Oct 01, 2027 Unknown kW
24 W Lodi Ave, Lodi, CA, 95240
Pacific Gas & Electric Co.

Utility Match (5)

- New TITAN Test**
Jun 30, 2025 143 kW
SE Harmony & Railroad, Portland, OR, 97222
Portland General Electric Co.
- New TITAN Test Project**
Jun 30, 2025 720 kW
SE Harmony & Railroad, Portland, OR, 97222
Portland General Electric Co.
- Test EV Realty**
Jan 21, 2026 17500 kW
345 california st, San Francisco, CA, 94104
Pacific Gas & Electric Co.
- San Fransico EVs**
Sep 28, 2028 38 kW
1476 Folsom St, San Francisco, CA, 94103
ABC Utility
- Parent-Child Test**
Oct 29, 2036 23 kW
100 24th Ave N, St Cloud, MN, 56303
Minnesota Valley Electric Coop

Capacity Information Exchange (7)

- TITAN Test Project | new dc fast chargers**
Jul 22, 2025 160 kW
51 Terry A Francois Blvd, San Francisco, CA, 94158
Pacific Gas & Electric Co.
- DC Public Parking Expansion | DCEX-00142**
Aug 26, 2026 344 kW
311 18th St NW, Washington, DC, 20006
ABC Utility
- Maryland Truck Depot 6 | MTD-06**
Aug 20, 2027 120 kW
3200 Ginger Bread Ct, Ellicott City, MD, 21042
ABC Utility
- Maryland Truck Depot 6**
Aug 24, 2028 63 kW
3200 Ginger Bread Ct, Ellicott City, MD, 21042
ABC Utility
- New York EV Public Charging 02390**
Feb 01, 2033 3438 kW
1450 Lexington Ave, New York, NY, 10128
ABC Utility

Preparation for Service Request (2)

- Virginia Bus Charging 3 | VBC-003**
Aug 20, 2027 56 kW
212 W 34th St, Richmond, VA, 23225
ABC Utility
- Template Project**
Oct 08, 2027 38 kW
14080 Francisquito Ave, Baldwin Park, CA, 91706
Southern California Edison Co.

Initiate Service Request (1)

- Wisconsin Public Parking | WPP-152**
Apr 20, 2028 111 kW
710 Swan Dr, Mukwonago, WI, 53121
ABC Utility

<< 1 - 5 of 7 >>

All my Projects at a Glance

GridFAST | Customer's Project Summary View



GridFAST HOME PROJECTS MY COMPANY RESOURCES NOTIFICATIONS GridFAST AC

ABC Logistics Co
Welcome, Alice

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+ CREATE PROJECT
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AU Alex Uttilty
Alex's email address
Southern California Edison Co.
XH Xuan Hua
Xuan's email address
Pacific Gas & Electric Co.
DK Dean Kunes
Dean's email address
555-123-1234
PP Polly PG&N
Polly's email address
Minnesota Valley Electric Coop
OU Oliver Uttilty
Oliver's email address
Portland General Electric Co.
PU Portia Uttilty
Portia's email address

My EV Projects
> Filters

Search Projects... SEARCH

Project Input (2)

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Aug 19, 2027 907 kW
1044 N Pilgrim St, Stockton, CA, 95205
Pacific Gas & Electric Co.
- ABC Fleet Charging 2 | Lodi fleet**
Oct 01, 2027 Unknown kW
24 W Lodi Ave, Lodi, CA, 95240
Pacific Gas & Electric Co.

Utility Match (5)

- New TITAN Test**
Jun 30, 2025 143 kW
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Portland General Electric Co.
- New TITAN Test Project**
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Portland General Electric Co.
- Test EV Realty**
Jan 21, 2026 17500 kW
345 california st, San Francisco, CA, 94104
Pacific Gas & Electric Co.
- San Fransico EVs**
Sep 28, 2028 38 kW
1476 Folsom St, San Francisco, CA, 94103
ABC Utility
- Parent-Child Test**
Oct 29, 2036 23 kW
100 24th Ave N, St Cloud, MN, 56303
Minnesota Valley Electric Coop

Capacity Information Exchange (7)

- TITAN Test Project | new dc fast chargers**
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Pacific Gas & Electric Co.
- DC Public Parking Expansion | DCEX-00142**
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311 18th St NW, Washington, DC, 20006
ABC Utility
- Maryland Truck Depot 6 | MTD-06**
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Feb 01, 2033 3438 kW
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ABC Utility

Preparation for Service Request (2)

- Virginia Bus Charging 3 | VBC-003**
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212 W 34th St, Richmond, VA, 23225
ABC Utility
- Template Project**
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Southern California Edison Co.

Initiate Service Request (1)

- Wisconsin Public Parking | WPP-152**
Apr 20, 2028 198 kW
710 Swan Dr, Mukwonago, WI, 53149
ABC Utility

<< 1 - 5 of 7 >>

All my Utility Contacts at a Glance

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- Minnesota Valley Electric Coop**
 - OU Oliver Uttilty
Oliver's email address
- Portland General Electric Co.**
 - PU Portia Uttilty
Portia's email address

My EV Projects

> Filters

Search Projects... SEARCH

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1044 N Pilgrim St, Stockton, CA, 95205
Pacific Gas & Electric Co.
- ABC Fleet Charging 2 | Lodi fleet**
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Pacific Gas & Electric Co.

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Initiate Service Request (1)

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Apr 20, 2028 198 kW
710 Swan Dr, Mukwonago, WI, 53149
ABC Utility

<< 1 - 5 of 7 >>

Phase of My Projects as Planning Matures (from left to right)

GridFAST | Example of a Customer Site Project

GridFAST [HOME](#) [PROJECTS](#) [MY COMPANY](#) [RESOURCES](#) [NOTIFICATIONS](#) GridFAST PP

Project ID 00478 | Parnassus Ave Logistics Center

[UPDATE UTILITY ADVISOR](#) [UPDATE PROJECT STAGE](#) [CONFIGURE PROJECT PACKAGE](#)

[Summary](#) [Charging Information](#) [Contacts](#) [Project Package](#) [External Communication](#)

Click through the tabs above to explore all the information provided by the customer.

Key Details

Project Name	Parnassus Ave Logistics Center	Address	101 Parnassus Ave San Francisco, CA 94117
Planned In-Service Date	Feb 19, 2025	Latitude/Longitude	37.76471 / -122.4501
Peak Load	45 kW		

Project Information

Project Name	WP San Marco TEST	Planned In-Service Date	Feb 19, 2025
Customer	Frito-Lay		
Project Type	Fleet Charging		
Stage	Capacity Information Exchange		
Size	Small		

Location Information

Address
101 Parnassus Ave
San Francisco, CA 94117

Latitude/Longitude
37.76471 / -122.4501

How long do you plan to operate at the location?
2 to 5 years

When the project starts, do you expect to be the landowner or tenant?
Landowner

Completed Steps
Zoning Restrictions (if applicable) and Permit Requirements Identified, Site Layout Drafted

Utility Information

Assigned Utility Confirmed
Pacific Gas & Electric Co.

Utility Advisor
PP Polly PG&N
Polly's email address

Project Plan

Project Plan ID 00401
Total Associated Projects 1

1 This project is the only phase at this location.

[View Plan](#)

Customer Contacts

JR Jen Robinson
Jen's email address

Data Export

[GENERATE PROJECT PDF](#)

Internal Notes

Type here to add a new message

0/2000

These messages will only be visible to users within your company

No messages to display

Map

Google Map | Hosting Capacity Map

Site Address

GridFAST | Example of a Customer Site Project



GridFAST HOME PROJECTS MY COMPANY RESOURCES NOTIFICATIONS GridFAST PP

Project ID 00478 | Parnassus Ave Logistics Center

UPDATE UTILITY ADVISOR UPDATE PROJECT STAGE CONFIGURE PROJECT PACKAGE

Summary Charging Information Contacts Project Package External Communication

Click through the tabs above to explore all the information provided by the customer.

Key Details

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Planned In-Service Date	Feb 19, 2025	Latitude/Longitude	37.76471 / -122.4501
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Project Information

Project Name	WP San Marco TEST	Planned In-Service Date	Feb 19, 2025
Customer	Frito-Lay		
Project Type	Fleet Charging		
Stage	Capacity Information Exchange		
Size	Small		

Location Information

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101 Parnassus Ave
San Francisco, CA 94117
Latitude/Longitude
37.76471 / -122.4501

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2 to 5 years

When the project starts, do you expect to be the landowner or tenant?
Landowner

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Utility Information

Assigned Utility **Confirmed**
Pacific Gas & Electric Co.

Utility Advisor
PP Polly PG&N
Polly's email address

Project Plan

Project Plan ID 00401
Total Associated Projects 1

1 This project is the only phase at this location.

View Plan

Customer Contacts

JR Jen Robinson
Jen's email address

Data Export

GENERATE PROJECT PDF

Internal Notes

Type here to add a new message

0/2000

These messages will only be visible to users within your company

No messages to display

Map

Google Map Hosting Capacity Map

PG&E
Confirmed

GridFAST | Example of a Customer Site Project

GridFAST | HOME | PROJECTS | MY COMPANY | RESOURCES | NOTIFICATIONS | GridFAST | PP

Project ID 00478 | Parnassus Ave Logistics Center

UPDATE UTILITY ADVISOR | UPDATE PROJECT STAGE | CONFIGURE PROJECT PACKAGE

Summary | Charging Information | Contacts | Project Package | External Communication

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Project Information

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Project Type	Fleet Charging		
Stage	Capacity Information Exchange		
Size	Small		

Location Information

Address
101 Parnassus Ave
San Francisco, CA 94117
Latitude/Longitude
37.76471 / -122.4501

How long do you plan to operate at the location?
2 to 5 years

When the project starts, do you expect to be the landowner or tenant?
Landowner

Completed Steps
Zoning Restrictions (if applicable) and Permit Requirements Identified,
Site Layout Drafted

Utility Information

Assigned Utility **Confirmed**
Pacific Gas & Electric Co.

Utility Advisor
PP Polly PG&N
Polly's email address

Project Plan

Project Plan ID 00401
Total Associated Projects 1

This project is the only phase at this location.

View Plan

Customer Contacts

JR Jen Robinson
Jen's email address

Data Export

GENERATE PROJECT PDF

Internal Notes

Type here to add a new message

0/2000

These messages will only be visible to users within your company

No messages to display

Map

Google Map | Hosting Capacity Map

Customer's Planned in-Service Date

GridFAST | Utility's Project Summary View

Pacific Gas & Electric Co.

Welcome, PP

2 New Project Matches

14 Projects Needing Curated Package

Customer Contacts

Search...

Amazon

- Carlos Customer
Carlos' email address
555-123-1234
- Collin Customer
Collin's email address
- Claire Customer
Claire's email address

EVgo

- Jen Robinson
Jen's email address

Voltaire Charging

- Ken Lim
Ken's email address

Frito-Lay

- Jen Robinson
Jen's email address

ABC Logistics Co

- Alice Customer
Alice's email address

Georgia State

- Allan Customer
Allan's email address

Maggie's EVs Inc

- Maggie Dong
Maggie's email address

Daimler Trucks North America LLC

- Diego Quevedo
Diego's email address
555-123-1234

Matched EV Projects

Filters

Utility Match (14)

Search Projects... SEARCH

- Treating Override**
Amazon
Feb 15, 2025 ⚠️
100 Sebastopol Rd, Santa Rosa, CA, 95407
56 kW
- ABC EVs**
Maggie's EVs Inc
Dec 31, 2025
55 Stony Point Rd, Santa Rosa, CA, 95404
75 kW
- Test EV Realty**
ABC Logistics Co
Jan 21, 2026
345 california st, San Francisco, CA, 94104
17500 kW
- Fleet Depot**
Amazon
Aug 30, 2026
984 Hensley St, Richmond, CA, 94801
3656 kW
- W Contra Costa Unified School District (WCUSD) Bus Electrification**
Amazon
Oct 01, 2026
3000 Parker Road, Richmond, CA, 94806
84 kW

1 - 5 of 14

- Capacity Information Exchange (21)**
- WP San Marco TEST**
Frito-Lay
Feb 19, 2025 ⚠️
101 Parnassus Ave, San Francisco, CA, 94117
45 kW
- The Largest Charging Depot in the World | 001**
Voltaire Charging
May 14, 2025 ⚠️
Tuolumne Meadows Lodge Rd, Yosemite National Park, 95321
28000 kW
- Kens House**
Voltaire Charging
May 29, 2025 ⚠️
3420 Hillview Ave., Palo Alto, CA, 94304
2100 kW
- Dorito distribution center in SF**
Frito-Lay
Jul 16, 2025 ⚠️
320 San Bruno Avenue, San Francisco, CA, 94103
188 kW
- TITAN Test Project | new dc fast chargers**
ABC Logistics Co
Jul 22, 2025 ⚠️
51 Terry A Francois Blvd, San Francisco, CA, 94158
160 kW

1 - 5 of 21

- Preparation for Service Request (5)**
- Service Request Test, Frito-Lay, PG&E**
Frito-Lay
Jul 01, 2025 ⚠️
931 S Van Ness Ave, San Francisco, CA, 94110
75 kW
- samantha (sr test)**
Frito-Lay
Sep 24, 2025
139 Mendosa Ave, San Francisco, CA, 94116
38 kW
- Cheetos (EV Common App test 3)**
Frito-Lay
Oct 21, 2025
Castro St & 23rd St, San Francisco, CA, 94114
100 kW
- EVgo site in San Bruno | EVG457**
EVgo
May 29, 2031
404 San Bruno Ave W, San Bruno, CA, 94066
990 kW
- New match test**
Amazon
Dec 03, 2040
415 De Leon Ave, Fremont, CA, 94539
2362 kW

- Initiate Service Request (3)**
- EV Fleet South San Francisco**
Amazon
Nov 12, 2026
323 Miller Ave, South San Francisco, CA, 94080
115 kW
- FritoLay service connection request (test EV Common app) in PG&E service territory**
Frito-Lay
Nov 18, 2026
Castro St & 23rd St, San Francisco, CA, 94114
800 kW
- test for PG&E**
Amazon
Jul 11, 2029
1100 Elm Dr, Novato, CA, 94945

All Customer Projects at a Glance

GridFAST | Utility's Project Summary View

GridFAST HOME PROJECTS MY COMPANY RESOURCES NOTIFICATIONS

Pacific Gas & Electric Co. GridFAST PP

Welcome, Polly

2 New Project Matches 14 Projects Needing Curated Package

Search Projects... SEARCH

Customer Contacts

Search...

- Amazon**
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 - Carlos' email address
 - 555-123-1234
 - 555-123-1234
 - Collin Customer
 - Collin's email address
 - Claire Customer
 - Claire's email address
- EVgo**
 - Jen Robinson
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 - Jen Robinson
 - Jen's email address
- ABC Logistics Co**
 - Alice Customer
 - Alice's email address
- Georgia State**
 - Allan Customer
 - Allan's email address
- Maggie's EVs Inc**
 - Maggie Dong
 - Maggie's email address
- Daimler Trucks North America LLC**
 - Diego Quevedo
 - Diego's email address
 - 555-123-1234

Matched EV Projects

Filters

Utility Match (14)

- Testing Override**
 - Amazon 56 kW
 - Feb 15, 2025
 - 100 Sebastopol Rd, Santa Rosa, CA, 95407
- ABC EVs**
 - Maggie's EVs Inc 75 kW
 - Dec 31, 2025
 - 55 Stony Point Rd, Santa Rosa, CA, 95404
- Test EV Realty**
 - ABC Logistics Co 17500 kW
 - Jan 21, 2026
 - 345 california st, San Francisco, CA, 94104
- Fleet Depot**
 - Amazon 3656 kW
 - Aug 30, 2026
 - 984 Hensley St, Richmond, CA, 94801
- W Contra Costa Unified School District (WCCUSD) Bus Electrification**
 - Amazon 84 kW
 - Oct 01, 2026
 - 3000 Parker Road, Richmond, CA, 94806

1 - 5 of 14

Capacity Information Exchange (21)

- WP San Marco TEST**
 - Frito-Lay 45 kW
 - Feb 19, 2025
 - 101 Parnassus Ave, San Francisco, CA, 94117
- The Largest Charging Depot in the World | 001**
 - Voltaire Charging 28000 kW
 - May 14, 2025
 - Tuolumne Meadows Lodge Rd, Yosemite National Park, 95321
- Kens House**
 - Voltaire Charging 2100 kW
 - May 29, 2025
 - 3420 Hillview Ave., Palo Alto, CA, 94304
- Dorito distribution center in SF**
 - Frito-Lay 188 kW
 - Jul 16, 2025
 - 320 San Bruno Avenue, San Francisco, CA, 94103
- TITAN Test Project | new dc fast chargers**
 - ABC Logistics Co 160 kW
 - Jul 22, 2025
 - 51 Terry A Francois Blvd, San Francisco, CA, 94158

1 - 5 of 21

Preparation for Service Request (5)

- Service Request Test, Frito-Lay, PG&E**
 - Frito-Lay 75 kW
 - Jul 01, 2025
 - 931 S Van Ness Ave, San Francisco, CA, 94110
- samantha (sr test)**
 - Frito-Lay 38 kW
 - Sep 24, 2025
 - 139 Mendosa Ave, San Francisco, CA, 94116
- Cheetos (EV Common App test 3)**
 - Frito-Lay 100 kW
 - Oct 21, 2025
 - Castro St & 23rd St, San Francisco, CA, 94114
- EVgo site in San Bruno | EVG457**
 - EVgo 990 kW
 - May 29, 2031
 - 404 San Bruno Ave W, San Bruno, CA, 94066
- New match test**
 - Amazon 2362 kW
 - Dec 03, 2040
 - 415 De Leon Ave, Fremont, CA, 94539

Initiate Service Request (3)

- EV Fleet South San Francisco**
 - Amazon 115 kW
 - Nov 12, 2026
 - 323 Miller Ave, South San Francisco, CA, 94080
- FritoLay service connection request (test EV Common app) in PG&E service territory**
 - Frito-Lay 800 kW
 - Nov 18, 2026
 - Castro St & 23rd St, San Francisco, CA, 94114
- test for PG&E**
 - Amazon 96 kW
 - Jul 11, 2029
 - 1100 Elm Dr, Novato, CA, 94945

All My Customer Contacts at a Glance

GridFAST | Utility's Project Summary View



GridFAST HOME PROJECTS MY COMPANY RESOURCES NOTIFICATIONS

Pacific Gas & Electric Co. Welcome, Polly

2 New Project Matches 14 Projects Needing Curated Package

Matched EV Projects

Utility Match (14) Capacity Information Exchange (21) Preparation for Service Request (5) Initiate Service Request (3)

Search Projects...

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Amazon 56 kW
Feb 15, 2025
100 Sebastopol Rd, Santa Rosa, CA, 95407
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Sep 24, 2025
139 Mendosa Ave, San Francisco, CA, 94116
- FritoLay service connection request (test EV Common app) in PG&E service territory**
Frito-Lay 80 kW
Nov 18, 2026
Castro St & 23rd St, San Francisco, CA, 94114
- Test EV Realty**
ABC Logistics Co 17500 kW
Jan 21, 2026
345 california st, San Francisco, CA, 94104
- Kens House**
Voltaire Charging 2100 kW
May 29, 2025
3420 Hillview Ave., Palo Alto, CA, 94304
- Cheetos (EV Common App test 3)**
Frito-Lay 100 kW
Oct 21, 2025
Castro St & 23rd St, San Francisco, CA, 94114
- Fleet Depot**
Amazon 3656 kW
Aug 30, 2026
984 Hensley St, Richmond, CA, 94801
- Dorito distribution center in SF**
Frito-Lay 188 kW
Jul 16, 2025
320 San Bruno Avenue, San Francisco, CA, 94103
- EVgo site in San Bruno | EVG457**
EVgo 990 kW
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1100 Elm Dr, Novato, CA, 94945
- W Contra Costa Unified School District (WCCUSD) Bus Electrification**
Amazon 84 kW
Oct 01, 2026
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- TITAN Test Project | new dc fast chargers**
ABC Logistics Co 160 kW
Jul 22, 2025
51 Terry A Francois Blvd, San Francisco, CA, 94158
- New match test**
Amazon 2362 kW
Dec 03, 2040
415 De Leon Ave, Fremont, CA, 94539

Customer Contacts: Amazon, EVgo, Voltare Charging, Frito-Lay, ABC Logistics Co, Georgia State, Maggie's EVs Inc, Daimler Trucks North America LLC

Navigation: << 1 - 5 of 14 >> << 1 - 5 of 21 >>

Phase of Projects as Planning Matures (from left to right)


GridFAST Launch Webinar



- 4/21/25
 - ***Voice of the utility and fleet clips – 5’***
 - *Taki Darakos, VP of Maintenance and Fleet Services, PITT OHIO*
 - *Patrick Pennel, Sr. Advisor, Business Development & Partnerships, Customer Service – e-Mobility, SCE*

Next Steps:

- Working to set up more utilities in GridFAST
- Working to identify select fleet(s) or other customers to “push” to GridFAST



EPRI GridFAST™
Launch Webinar

You are invited to the **GridFAST Launch Webinar!**

Join us on April 21st to hear more about GridFAST and GridFAST+, an information exchange platform that helps businesses and other organizations engage early and efficiently with utilities to accelerate electric vehicle (EV) infrastructure charging projects.

WHEN
April 21st 3pm - 4pm Eastern Time

WEBCAST FORMAT
Webex

Grid Connection report for small fleets and MFH



Grid Connection Roadmap: (coming in ~2 weeks)

- Looks at other **utility policies and practices** that need to change along the energization process for EV service requests at scale.
- Geared towards small fleets and MFH customers, but the **solutions benefit all customers.**
- Utility implementation of these roadmap solutions + GridFAST will equal **efficiency and speed in energization.**



Alliance for Transportation Electrification

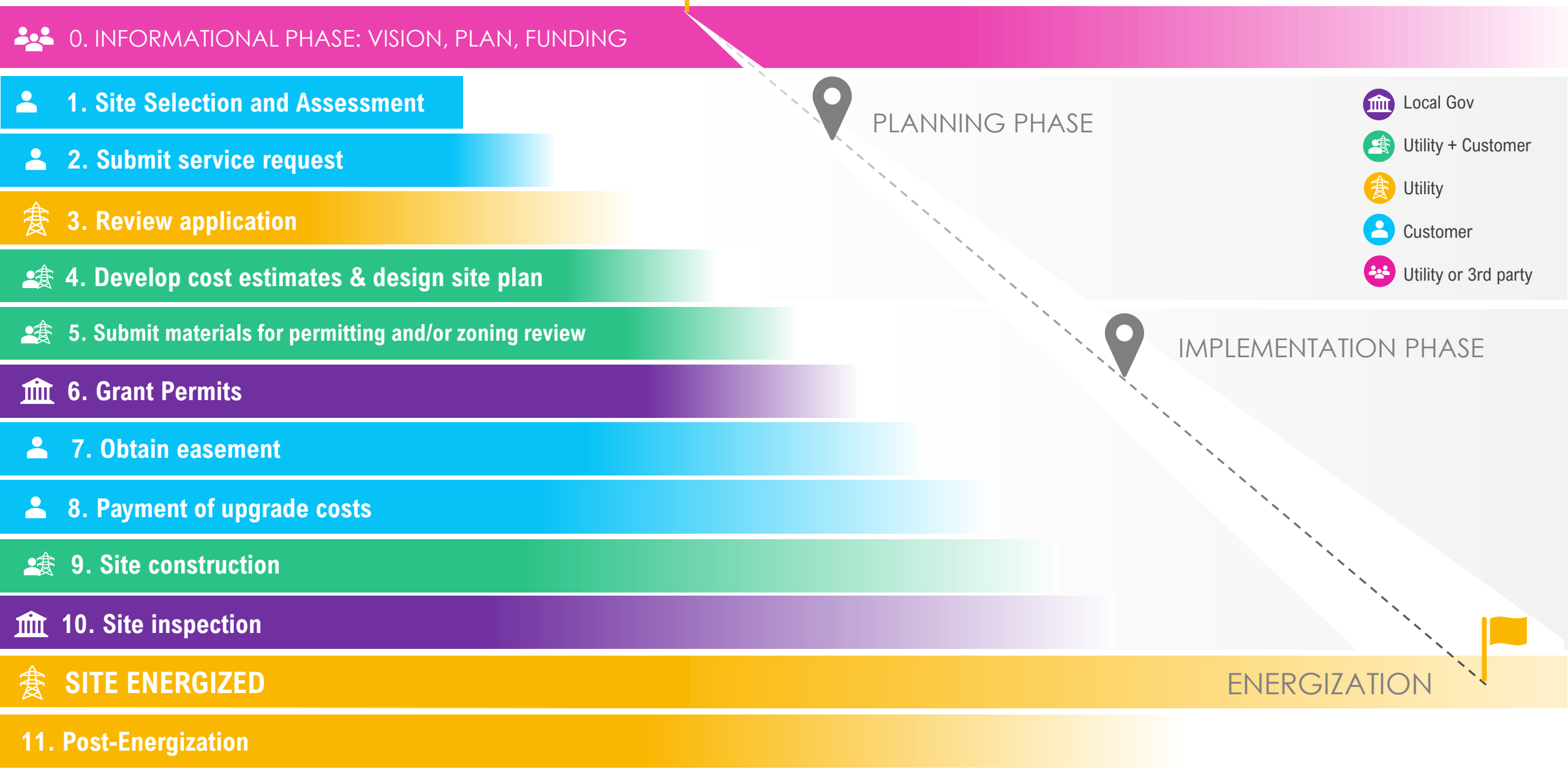


Independent leadership. Trusted clean energy expertise.



ENERGIZATION JOURNEY

Typical Service Connection Process



ENERGIZATION JOURNEY

 0. INFORMATIONAL PHASE: VISION, PLAN, FUND

 1. Site Selection and Assessment

 2. Submit service request

 3. Review application

 4. Develop cost estimates & design site plan

 5. Submit materials for permitting and/or zoning review

 6. Grant Permits

 7. Obtain easement

 8. Payment of upgrade costs

 9. Site construction

 10. Site inspection

 SITE ENERGIZED

11. Post-Energization

- Solutions were identified at each step of this process.
- Each step has multiple solutions, ranked by implementation: easiest to hardest.
- Highest impact solutions (e.g. reducing energization timelines) also noted.

1. *Assess total capacity needed at site and plan accordingly by asking additional customer fleet size questions on service request form.*
2. *Incorporate supply chain delays in timing estimates given to customers.*
3. *Share information regarding available project funding (utility and state/federal incentives) and other methods of payment.*
4. *Share ways to install reversible or temporary installations, especially installations that require minimal civil work.*
5. *Discuss list of managed charging programs and solutions with customers.*
6. *Develop a list of interim solutions or bridge to wires solutions that work for small fleet and MFH customers.*
7. *Permit customers to “bring their own transformer.”*

GridREADY Resource

EVs2Scale 2030™



50-State GridREADY

- A resource to **promote a common data-based understanding across the states** of the need and value of preparing the grid for EV loads
- A resource **available to NGOs** and others **to reinforce common datapoints** and reference materials
- All 50 states covered, **no state left behind**

Available here:

<https://epri.app.box.com/s/yuwha9vru3clplnznt4az9kky4b644ai>





EPRI GridREADY

*PREPARING FOR EV LOADS AT SCALE THROUGH IMPROVED
PLANNING, PRIORITIZATION, AND PROACTIVENESS*

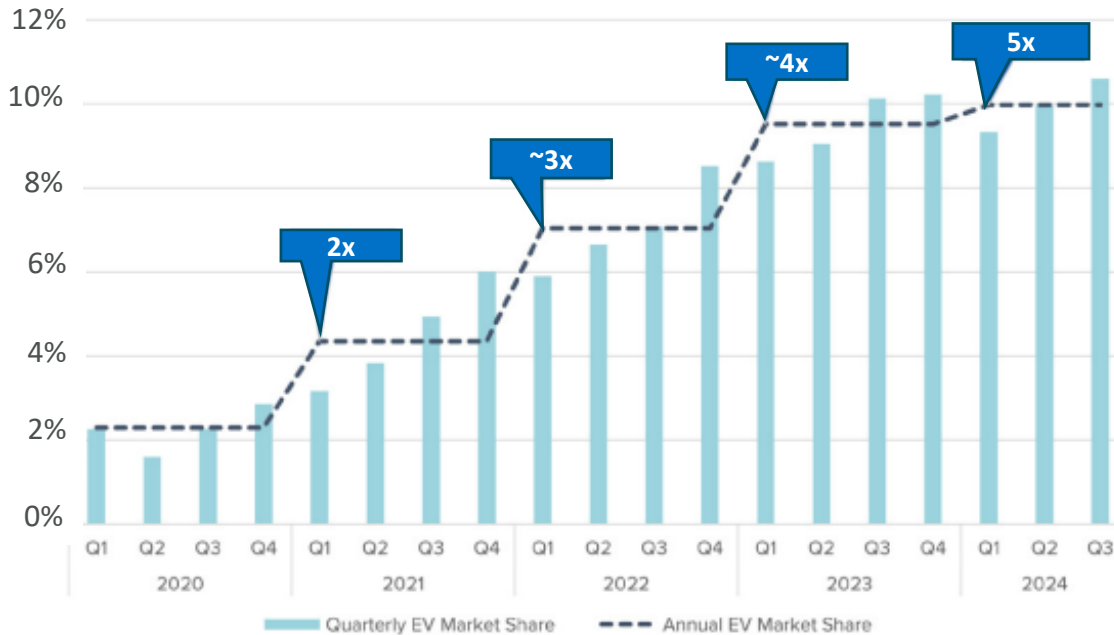


FEBRUARY 2025

EV Sales are Growing Consistently.

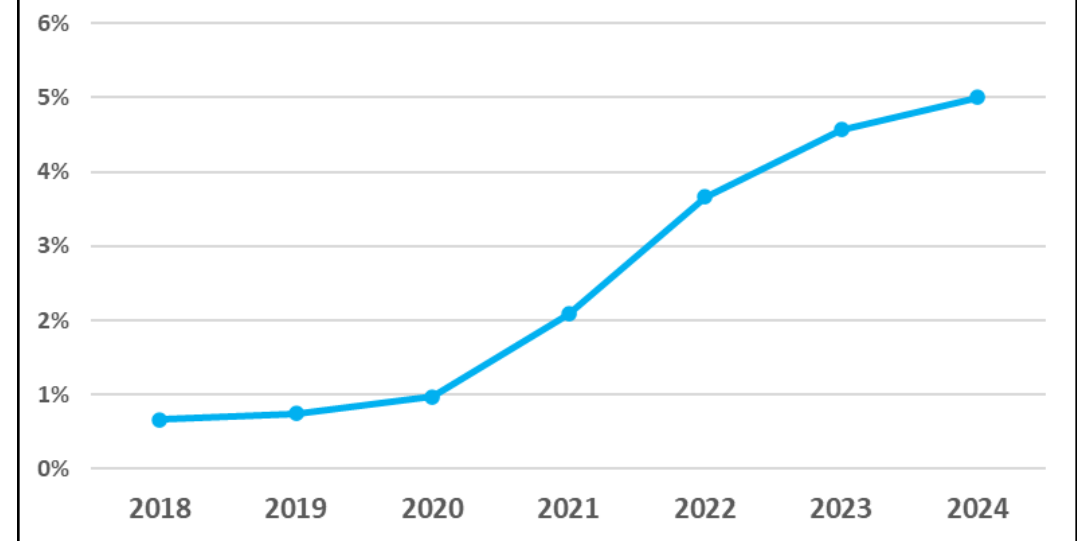
Proactively Planning for Grid Upgrades is Critical Before EV Scale Arrives Given the Large Investments + Long Timelines Involved

U.S. EV LD Market Share (Q1 2020 – Q3 2024)



EV sales nationwide represented more than 10% of new vehicle sales through Q3 2024.¹

Tennessee EV LD Market Share

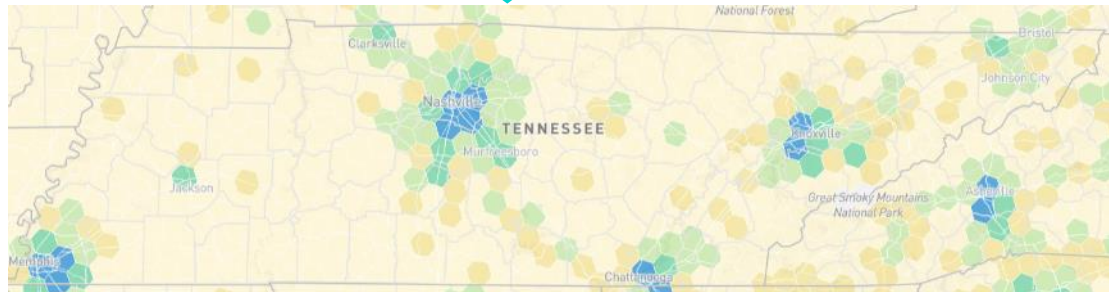


- In Tennessee, EV LD market share **doubled the past 2.5 years.**²
- TN is likely to see even greater growth in LD and MHD adoption as total cost of ownership improves each year, as more EV products become available, and as more charging infrastructure becomes available.^{3, 4}

Prudent Grid Investments Require That Utilities (and Utility Regulators) Know Where + When EV Loads are Coming

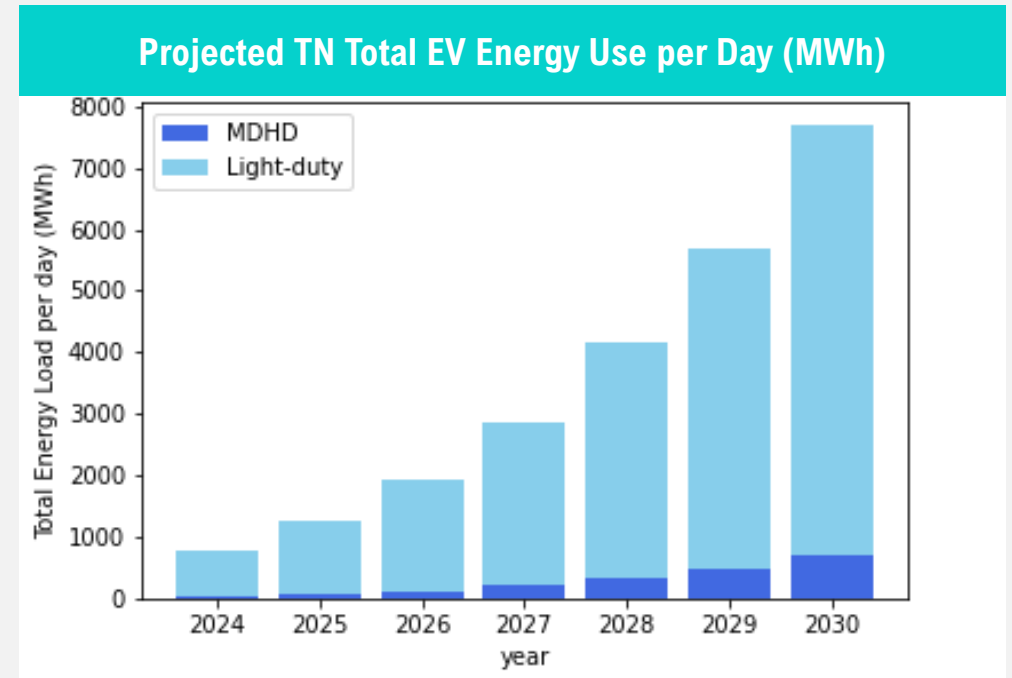


2025

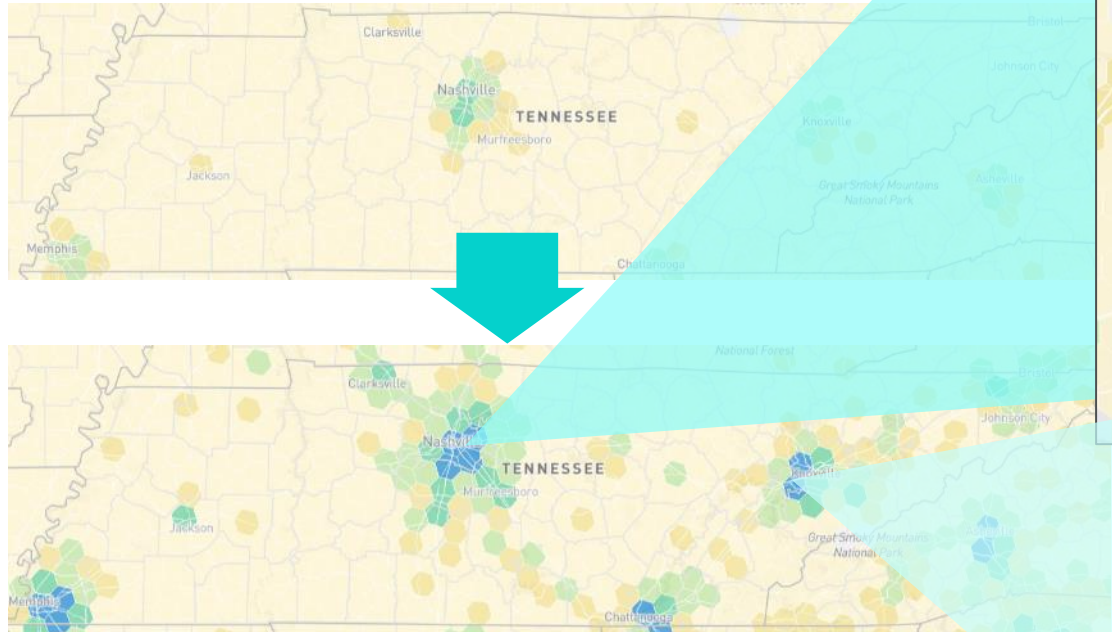


2030

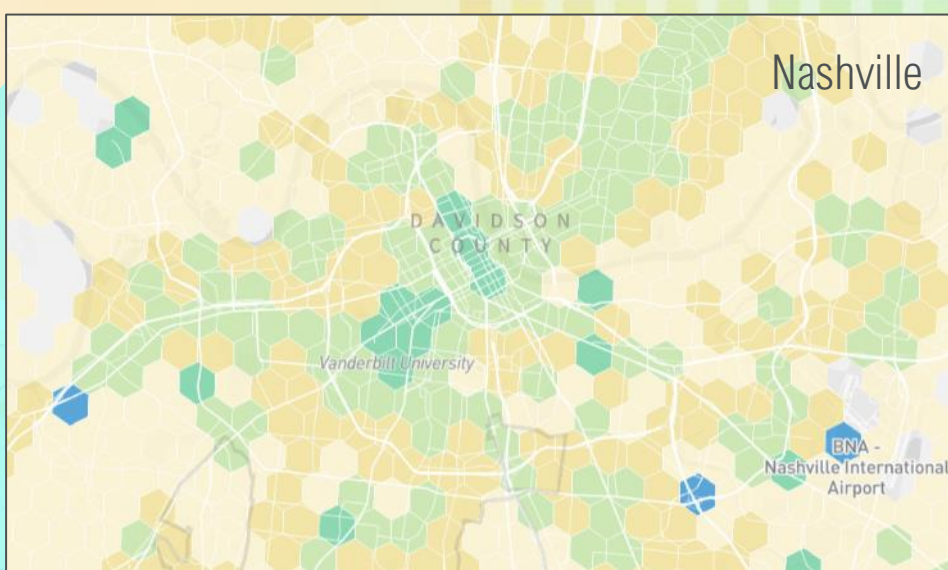
EPRI's **eRoadMAP™** tool identifies **where and when** EV load is expected at the feeder level through 2030 and beyond -- the goal is to build confidence in prioritized investments. The **unique dataset includes actual fleet plans** from some fleets operating across TN.



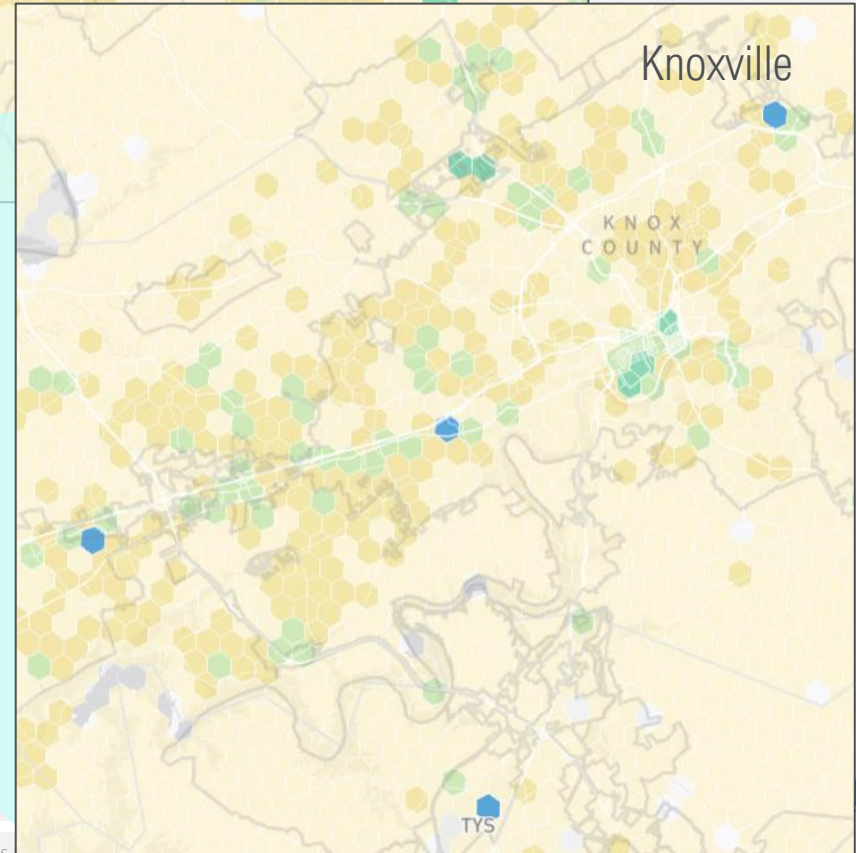
- LD load is large, but typically spread across the entire distribution system.
- MHD load is clustered in fewer, denser locations.
- Total projected load in 2030 is equivalent to 712,981 new homes.⁵



2030



Areas of interest include the major cities in TN, including Nashville and Knoxville shown here, along with the freight corridors.



EPRI's **eRoadMAP™** tool identifies **where and when** EV load is expected at the feeder level through 2030 and beyond -- the goal is to build confidence in prioritized investments. The **unique dataset includes actual fleet plans** from some fleets operating across TN.

Distribution of expected loads across TN over time (Hex8 level)

Year	2025	2026	2027	2028	2029	2030	100% Elec.
# of hexes showing <1 MWh	96,877	96,854	96,801	96,663	96,408	95,921	79,918
# of hexes showing 1-3 MWh	8	28	81	212	453	907	9,453
# of hexes showing 3-7.5 MWh	13	8	4	8	21	53	4,623
# of hexes showing 7.5-10 MWh	2	3	6	3	3	2	1,049
# of hexes showing 10-15 MWh	4	8	7	5	5	7	904
# of hexes showing > 15 MWh	4	7	9	17	18	18	943

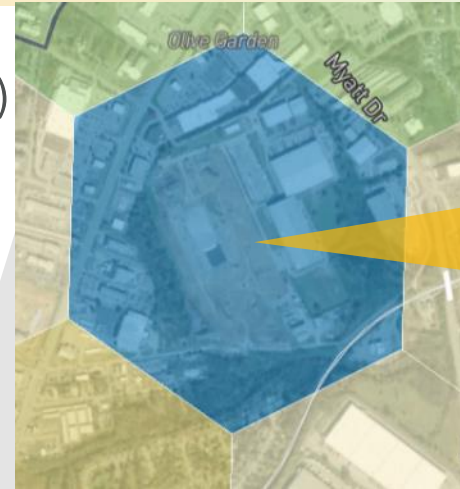
- Hexagons at a resolution of Level 8 represent 0.28 square miles (or ~1-2 distribution feeders).
- Most projected Hex8 loads over time are **< 1 MWh, indicating a load that is relatively easily supported through traditional utility planning processes.**
- But **loads > 10 MWh likely require proactive planning today** to achieve customer timelines (e.g. fleet operators, property developers, charging providers).

Engaging early with fleet operators and property/charging developers in these priority locations is critical and will help ensure longer lead-time grid investments are both timely and prudent.

Proactive Planning is Critical to Achieving the Timelines Customers Expect + More Carefully Managing the Costs of Grid Investments

Distribution of expected loads across TN over time (Hex8 level)

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# of hexes showing 10-15 MWh	4	8	7	5	5	7	904
# of hexes showing > 15 MWh	4	7	9	17	18	18	943



Totals for this Hexagon		
Utility:	Nashville Electric Service	
Energy	(MWh / Day)	
Light Duty	0.391	
Medium / Heavy Duty	27	
Total	28	
Peak Power (MW)	Unmanaged	Managed
Light Duty	0.041	0.024
Medium / Heavy Duty	8	8
Total	9	8

Numbers are rounded for display purposes.

In 2030 in north Nashville, an area with known EV fleet plans is projecting a 28 MWh load.



Totals for this Hexagon		
Utility:	Knoxville Utilities Board	
Energy	(MWh / Day)	
Light Duty	0.235	
Medium / Heavy Duty	18	
Total	18	
Peak Power (MW)	Unmanaged	Managed
Light Duty	0.025	0.017
Medium / Heavy Duty	6	6
Total	6	6

Numbers are rounded for display purposes.

Hex Level 8 ID: 8844ca3443ffff

In northeast Knoxville, an area is projecting a >18 MWh load.

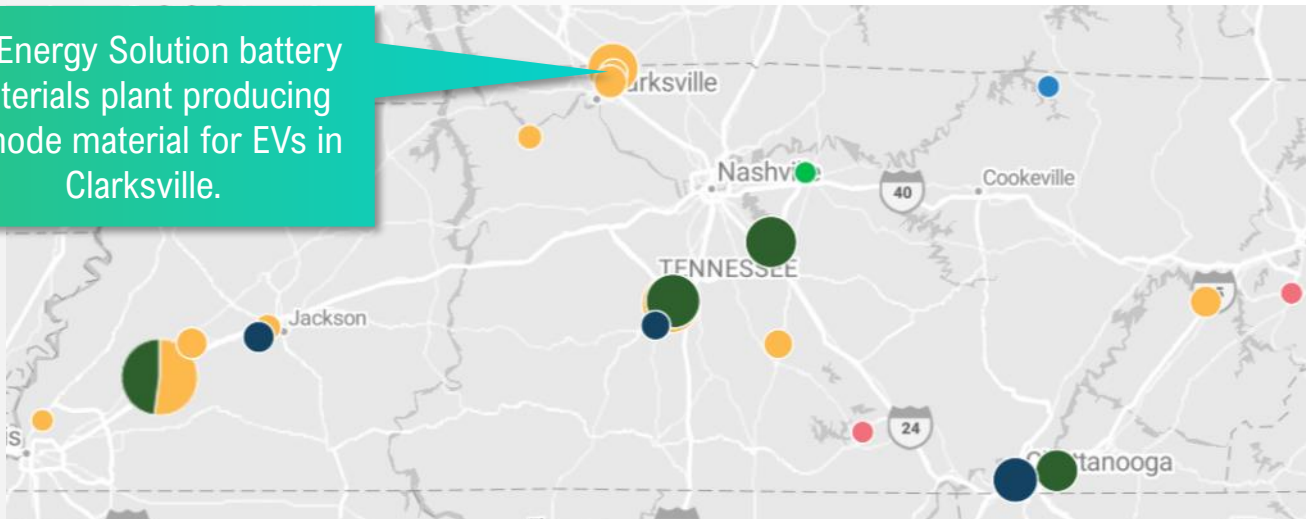
Top 10 Counties Projected EV Energy Load in 2030

Rank	County	Total LD 2030 EV Load (MWh)	Total MHD 2030 EV Load (MWh)	Total 2030 EV Load (MWh)	Equivalent Number of New Single-Family Homes ⁵
1	Davidson	1,020,434	113,914	1,134,348	105,120
2	Shelby	669,184	131,914	801,099	74,238
3	Knox	546,517	75,485	622,002	57,641
4	Hamilton	404,332	48,516	452,848	41,965
5	Williamson	409,629	5,708	415,336	38,489
6	Rutherford	309,262	52,284	361,546	33,504
7	Wilson	210,201	42,087	252,287	23,379
8	Montgomery	239,838	6,240	246,078	22,804
9	Sumner	200,607	7,573	208,180	19,292
10	Sullivan	164,622	9,238	173,859	16,112
Total	Total All Counties	6,984,343	709,437	7,693,780	712,981

Economic Development:

- Since 2007, TN has benefited from nearly \$56.8 billion in EV-related investment.⁷ TN ranks fourth in the nation in total EV investment.
- More than 15,717 jobs have been added in EV manufacturing and the EV supply chain.⁸

LG Energy Solution battery materials plant producing cathode material for EVs in Clarksville.



EV-related Manufacturing:

● Batteries ● Medium/Heavy-Duty Vehicles ● Parts ● Minerals ● EV Charging

Fleet Commitments:

The largest companies in TN, by employment, have plans to electrify their fleets and/or install EV charging stations for customers⁹:

- Walmart (#1) plans to build out a network of DCFC stations across TN and achieve a zero-emission fleet by 2040.¹⁰
- Amazon (#3) plans to have all 100,000 delivery vans electric before 2030.¹¹
- Kroger (#4) plans to bring hundreds of charging stations to stores for their customers.¹²

Summary:

1. **It takes time** to build distribution grid infrastructure and set up the right utility policies and programs - the earlier the planning starts, the more prudent the investments will be.
2. EV sales in TN (new vehicle market share) are approaching **6% electric**. EV LD market share in TN doubled the past 2.5 years.
3. Proactive outreach and planning is key to addressing the **timing mismatch** between vehicle procurement and grid readiness
4. **Prioritization of "no-regrets"** distribution system upgrades can help control grid investment costs for all customers
5. **eRoadMAP** identifies areas of projected higher load based in part on **actual private sector electrification plans** - perform outreach to fleet customers in hexagons >10-15 MWh to identify prudent and prioritized grid actions
6. The **EV transition is already benefiting Tennessee** - there are compelling reasons to act now vs. later in planning, prioritizing and preparing for 2030 EV load

Utilities:

- Cite eRoadMAP™ and GridREADY data and insights in regulatory workshops and filings.
- Drive additional customer fleet data into eRoadMAP™.

EV Customers:

- Support utility filings with support letters showing your fleet electrification commitments. Cite GridREADY where helpful.
- Share your electrification plans with EPRI, to be shown in eRoadMAP™ (anonymized, aggregated at the 0.28 mi² level).

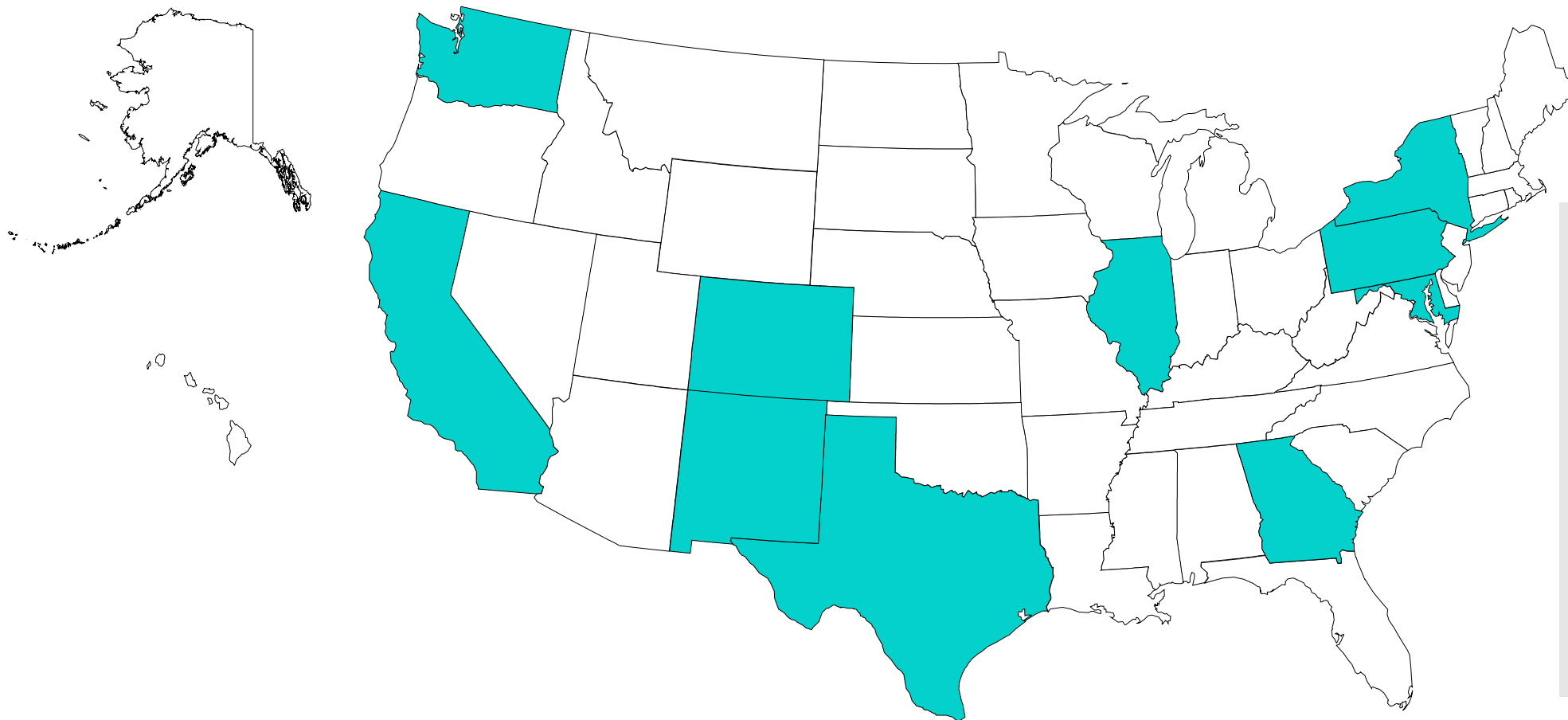
NGOs:

- Share GridREADY with key state stakeholders and decisionmakers.
- Encourage relevant state EV customers (fleets and charging providers) to support utility filings with support letters showcasing the projected EV load.
- Encourage customers (fleets and charging providers) to share fleet electrification plans with EPRI to continuously improve eRoadMAP™ data.

Where EVs2Scale resources are being used



eRoadMAP provides a critical source of independent data and as a result has been cited in at least **10 state proceedings** (legislative and regulatory) to date (1/22/25)



Other:

• **Reports:**

- Energy Innovation MFH report
- EDF cost to proactively build (Nov. 2024)
- AEU framework (summer 2024)
- Atlas HC map report (Dec. 2024)
- APPA proactive grid report
- *Pending: City of Denver/Synapse, EDF/Clean Energy works rural report)*

- >700 EVSE products and 50 networks from over 100 vendors vetted
- Updated monthly
- Routinely adding new vendors and user organizations
- Full transparency of vetting process and data

Available for use today

Vendors Using the VPL



Learn more at: www.epri.com/vpl

Impact & Value

- Vendor access to >**\$1.8 billion** in program funding incentives
- Reduced vendor frustration with product qualification
 - One-stop shop for product qualification across a dozen programs vs. individually interacting with each organization
- Reduced labor hours and costs for utilities and other participating organizations
 - Burden of product qualification and knowledge of up-to-date industry practices taken on by EPRI

Organizations Using the VPL



Learn more at: www.epri.com/vpl

EVs2Scale 2030™



Thank You

GridFAST | Customer View of all Utilities using GridFAST



Utilities

Matched Utilities | All Utilities

Search Utilities [SEARCH]

Utility ID	Utility	Website URL	# of Open Projects
00045	Alabama Power Co.	https://www.utilitydive.com/	4
00059	Ameren Missouri	https://www.ameren.com/missouri/	6
00059	Arizona Public Service	https://www.aps.com	1
00086	Austin Energy	https://austinenenergy.com	4
00069	Baltimore Gas & Electric Co.	https://www.bge.com	4
00043	CenterPoint	www.google.com	3
00053	Con Edison	https://www.coned.com	5
00110	Duke Energy	https://www.duke-energy.com	4
00008	Evergy	https://www.evergy.com	0
00073	Eversource Energy - Massachusetts	https://www.eversource.com	1
00039	Georgia Power Co.	https://www.georgiapower.com/	2
00078	Great River Energy	https://www.greatriverenergy.com	2
00037	Los Angeles Dept. of Water & Power	https://www.ladwp.com/	5
00058	National Grid - New York	https://www.nationalgridus.com	3
00061	Omaha Public Power District	https://www.oppd.com	1
00071	Oncor	https://www.oncor.com	0
00067	Pacific Gas & Electric Co.	https://www.pge.com	27
00007	Pepco - DC	https://www.pepco.com	1
00085	PNM	https://www.pnm.com	0
00052	Portland General Electric Co.	https://portlandgeneral.com/	2
00079	Sacramento Municipal Util. Dist.	smud.org	2
00063	Salt River Project	https://www.srpnet.com	1
00054	Seattle City Light	https://www.seattle.gov/city-light/	4
00057	Southern California Edison Co.	https://www.sce.com	15
00001	Xcel Energy	https://www.xcelenergy.com	3

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Level of Utility Engagement

of Open Projects

GridFAST Lite
(Free version – limited coordination)

GridFAST
(Industry portal for project planning)

GridFAST+
(Full service request functionality)