

Transportation Electrification Opportunities

September 28, 2022



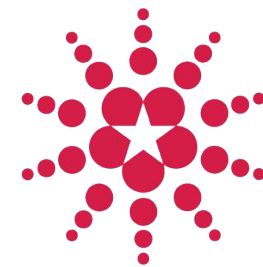
Electrification
Coalition

Electrification Coalition Founding

The **Electrification Coalition** is a nonpartisan, nonprofit organization dedicated to driving the policies and actions that will electrify all modes of transportation to protect economic and national security, public health, and American jobs.



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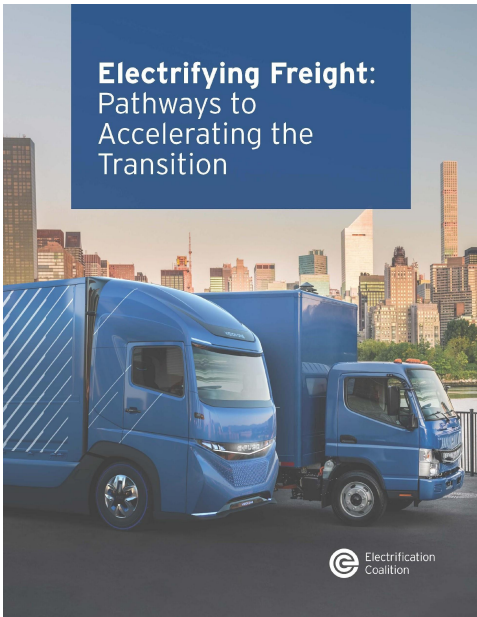
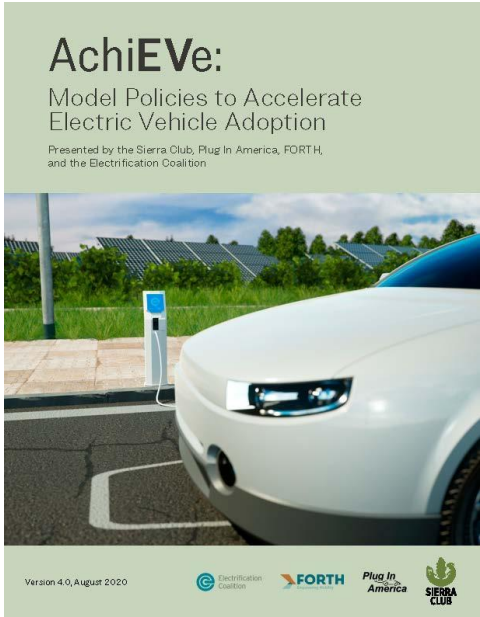
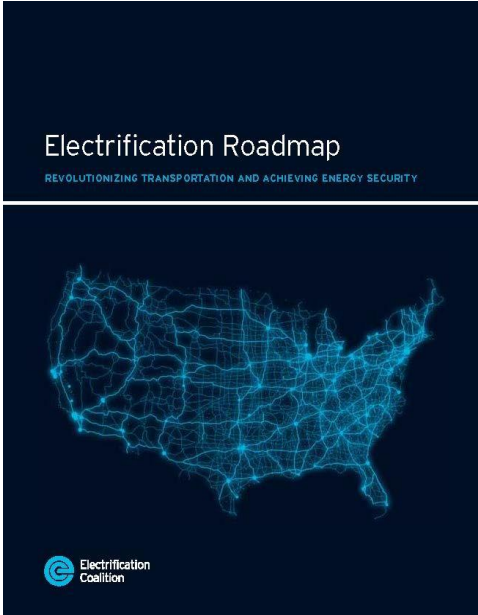
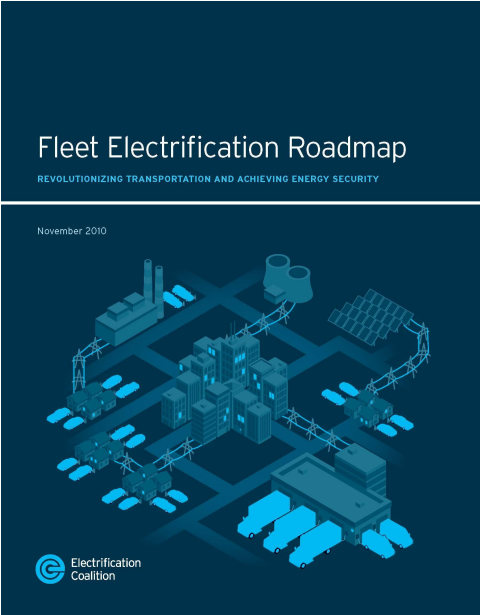


SAFE

Electrification Coalition Business Council

The United States' transition to an electrified transportation future isn't a question of if – it's when. ECBC creates [a strategic alliance that can supercharge support for the policies and actions](#) needed to accelerate transportation electrification at a mass scale.



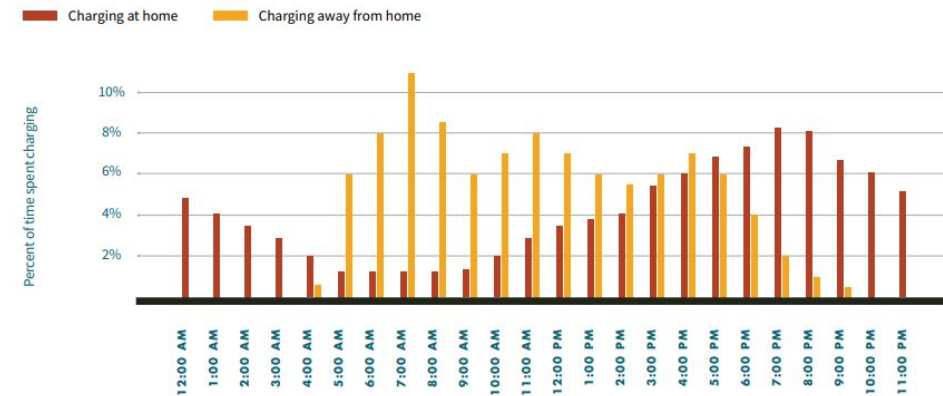


Explore more resources at
www.electrificationcoalition.org

The Opportunity

- Attract customers
- Increase in-store sales from customers spending more time at restaurants
- Direct revenue from charging station use fees/advertising revenue
- Demonstrates or improves an environmentally conscious corporate branding
- Gain a competitive edge over other businesses
- Improve marketability on travel search engines that have filters for EV friendly
- Future-proof

FIGURE 20: ESTIMATE: PERCENTAGE TIME SPENT CHARGING AT A GIVEN POINT IN TIME DURING THE DAY (2017)



Note: Away includes charging at work and at public charging stations

Source: American Public Power Association, A Public Power Guide to Understanding the U.S. Plug-in Electric Vehicle Market

Understanding the Challenges & Creating Opportunities

Budget Constraints	Capital vs operational expenses; dependency on grants
Difficulty in equity planning	Limited knowledge, tools and capacity to assess needs and deploy infrastructure
Conflicting transportation priorities	Single occupancy/transit/carsharing
Permitting hurdles and delays	Zoning, access
Conflicting Ownership	Siting jurisdiction

Siting Considerations



Electrical Capacity



Existing Infrastructure



Amenities



Accessibility

Forward-Thinking Planning



Hosts must be able to afford electricity as well as network fees and warranties



Hosts may collect feedback and data to understand how their charging infrastructure is performing



Hosts must hire people who are capable of charger maintenance or budget for a manufacturer maintenance plan

Electrical Capacity Considerations

Electrical Load Capacity

The term "electrical load capacity" refers to the total amount of power provided by the main source of electricity for use by the building's circuits and the lights, outlets, and appliances connected to them.



Most homes have an average of 100 – 200 amperage capacity.
Small, older buildings may have 200 – 400 amperage capacity.

Level 1 Charging = 110-120V, 15-30 amps

Level 2 Charging = 240V, 30-50 amps

DC Fast Charging = 480V

Case Studies

San Antonio Zoo

- Blink and the city installed 202 Level 2 charging stations and 3 DC fast- chargers furthering the city's Electric Vehicle San Antonio Program (EV-SA).
 - Installed on City property to serve as an amenity and “visible sign” of their commitment to clean transportation choices.”

Melrose, Mass.

- installed 15 mounted EV chargers in 2021, and early data suggests that mounting EVSE chargers on existing utility poles will reduce installation costs by as much as 55% -70%.¹⁰

Los Angeles

- Installed more than 430 chargers on streetlights, and as of November 2021, at least five other cities had installed charging infrastructure on utility poles or streetlights or were planning pilots for this purpose.

Partnerships

Company	Number of Stations and Locations	Charging Station Service Provider Partners
Walmart	120+ stations in 34 states	Electrify America
Target	Plants to install stations at 600+ parking spaces in 20+ states	ChargePoint, Electrify America, Tesla
IKEA	Stations at 37 stores worldwide	Blink
Walgreens	Stations at 400 stores	EVgo, SemaConnect
Wawa	Stations at 47 stores	Tesla
Sheetz	21 stations	Electrify America, EVgo
Simon Property Group	645 stations at 110 properties across 20 states	Electrify America, EVgo
General Motors	3,250 nationwide at FlyingJ	EVgo

Things to Consider



Evaluation and Analysis

Develop suitability analyses to understand neighborhood needs and best use cases for projects, including infrastructure mapping, including an equity score index combined with community feedback.



Funding

- **Grant research and outreach** City workshops, participate in workshops; develop funding partnerships



Partnerships

A diverse array of stakeholders move the needle by building momentum around electric mobility and filling funding gaps.



Community Engagement

- **Partner with community members, equity experts** focused on ensuring equity is integrated in deploying public charging infrastructure, engage community groups, chambers,



Site Planning

Careful and extensive site planning supports the efficiency of the network by ensuring projects are not held up by ambiguous external processes.



Inflation Reduction Act

EV-Specific Benefits

- Light duty EV tax credits: up to \$7,500
- Used EV tax credit: up to \$4,000
- Commercial EV tax credit: 30% of vehicle, up to \$40,000
- EV charging equipment tax credit: up to \$1,000
- 30C Alternative Fuel Refueling Property Credit

Community-Specific Benefits

- Cities near ports may receive port decarbonization grants for planning and equipment
- Emerging clean energy jobs
- Unlocks new clean energy funding in the form of direct payments
- Opens grant programs supporting GHG reduction, pollution reduction, and electrification

Thank you!

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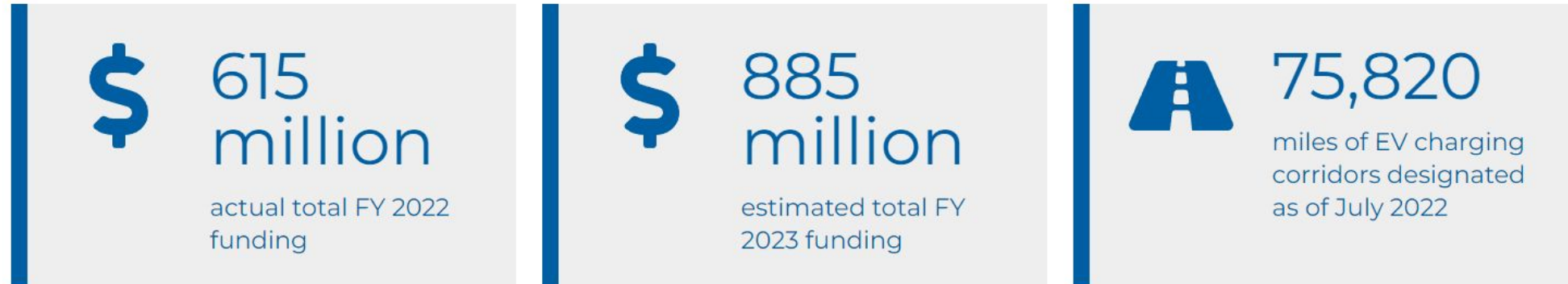


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What's Next for NEVI?



- All 52 jurisdictions have been approved!
- With approval – [states can now unlock funding](#) to be reimbursed for state staffing and planning activities and can also start deploying funding to build charging stations and execute their plans.
- Charging Station “rules” expected to be finalized “expeditiously”
- Details for the [\\$2.5 billion NEVI competitive grant program](#) expected soon!

Utility EV Programs

- 35 States
- 64 Utilities

Approved	
34	138
States	Filings
55	\$3,552,312,517
Utilities	Investment
7,839	304,428
DC Fast Charging Stations	Level 2 Charging Stations

Pending/Filed	
25	62
States	Filings
36	\$2,920,392,613
Utilities	Investment
3,816	273,428
DC Fast Charging Stations	Level 2 Charging Stations

Denied/Withdrawn	
22	47
States	Filings
28	\$718,953,126
Utilities	Investment
854	90,543
DC Fast Charging Stations	Level 2 Charging Stations