

Scaling Up Innovation to Drive Down Emissions: Building out EV Charging Infrastructure

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Electrification
Coalition

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EV Adoption Programs Around the U.S.

The **Electrification Coalition** is a nonpartisan, not-for-profit group committed to promoting policies and actions that facilitate the deployment of electric vehicles on a mass scale.



Technical Lead

Climate Mayors EV Purchasing Collaborative



State EV Policy Accelerator

NV, MI, PA, VA, NC, GA, FL



Electrification Advisor

Bloomberg American Cities Climate Challenge



Lead Electrification Partner

Smart Columbus



Project Lead

Drive Electric Northern Colorado
Drive Electric Orlando



Pilot Program Leader

Freight and Goods Delivery Electrification



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Investment in EV Infrastructure

1. Federal level: Bipartisan Infrastructure Law

*Agency coordination

2. State and City Level Landscape

3. Utilities

**What's on the horizon?*



Federal Level: Bipartisan Infrastructure Law

Dedicated EV Funding:

1. \$5 billion for EVSE build-out along highways (NEVI)
2. \$2.5 billion competitive grants; 50% set aside for community grants with priority for rural and underserved communities
3. \$2.5 billion for electric school buses, \$2.5 billion zero emission and low emission buses

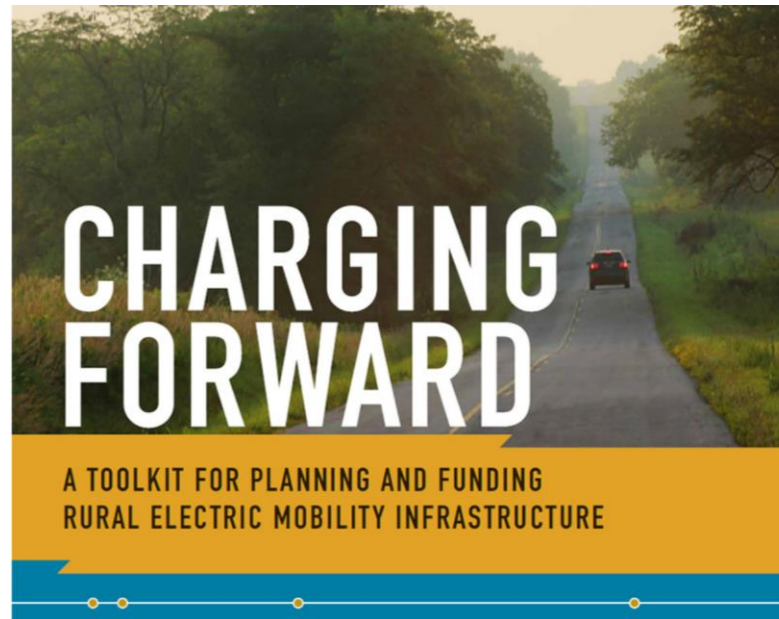


Additional Programs:

- *Section 11115: Congestion mitigation and air quality improvement program
- *Section 11402: Reduction of Truck Emissions at Port Facilities
- *Section 11403: Carbon Reduction Program
- *Section 30018: Grants for Buses and Bus Facilities
- *Section 40107: Deployment of Technologies to Enhance Grid Flexibility
- *Section 40541: Grants for Energy Efficiency Improvements and Renewable Energy Improvements at Public School Facilities







Federal Level: Agency Coordination







- New joint office DOE/DOT: driveelectric.gov
*technical assistance
- DOT Rural EV toolkit (p. 73-83 EVSE programs); EC Rural Guidebook
- EPA Clean School Bus: epa.gov/cleanschoolbus
*technical assistance
- Deployment principles:
 - Reliable
 - Effective
 - Equitable
 - High Quality
 - Connected
 - Affordable
 - 100%



DOT Funding and Financing Programs with EV Eligibilities*

LEGEND

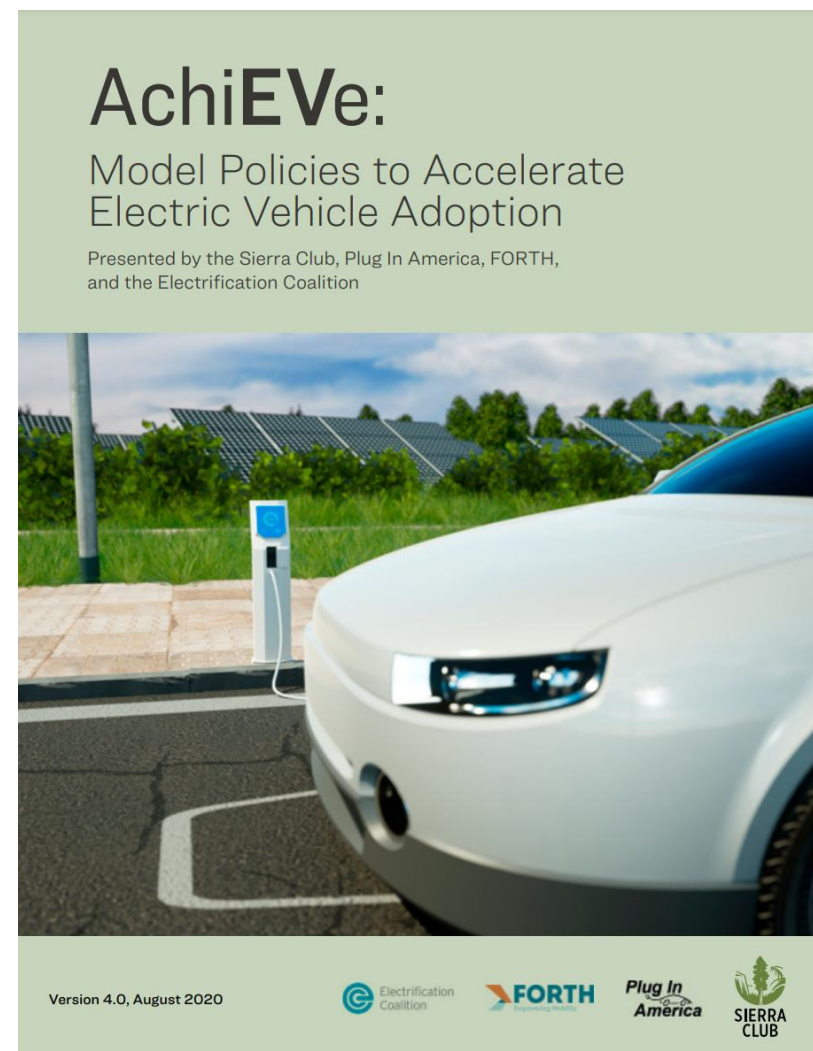
						
Construction and installation of EV charging infrastructure including parking facilities and utilities.						
Workforce development and training related to EV infrastructure.						
EV acquisitions and engine conversions - cars or trucks.						
Planning for EV charging infrastructure and related projects.						
Construction and installation of EV charging infrastructure to support operational, resiliency, national energy security, environmental, and community goals for freight transportation.						
Installation of EV charging infrastructure as part of transit capital projects eligible under chapter 53 of title 49, United States Code.						

	FY 2021 AMOUNT						
FORMULA PROGRAMS							
National Highway Performance Program (NHPP)	\$23.1 B						
Surface Transportation Block Grant Program (STBG)	\$10.2 B						
Congestion Mitigation & Air Quality Improvement Program (CMAQ)	\$2.4 B						
National Highway Freight Program (NHFP)	\$1.5 B						
State Planning and Research (SPR)	\$641.5 M						
Metropolitan Planning (PL)	\$357.9 M						
DISCRETIONARY PROGRAMS							
Rebuilding American Infrastructure with Sustainability and Equity (RAISE) (formerly known as BUILD)	\$1.0 B						
Infrastructure for Rebuilding America (INFRA) Grant Program	\$889.0 M						
Advanced Transportation and Congestion Management Technologies Deployment (ATCMTD)	\$53.3 M						
OTHER ALLOCATED PROGRAMS							
Federal Lands and Tribal Transportation Program (FLTTP)	\$1.0 B						
Highway Infrastructure Program (HIP) (other than for bridges)	\$644.0 M						
Puerto Rico Highway Program (PRHP)	\$74.9 M						
Territorial Highway Program (THP)	\$37.3 M						
INNOVATIVE FINANCE PROGRAMS							
State Infrastructure Banks (SIBs)	Varies						
Transportation Infrastructure Financing and Innovation Act (TIFIA)	Varies						

Disclaimer: Many of these programs are oversubscribed, and EV charging infrastructure competes with many other types of eligible projects.
 * All eligibility determinations are fact specific. Limitations may apply. Additional low and zero-emission fuel types also may be eligible under these programs.
 Note: Total (in millions and billions, rounded to one decimal place)

State and City Level Landscape

- Corridor programs
- Rebate programs
- Deployment goals
- VW Settlement funds
- EV-Ready Wiring, Codes, Ordinances
- Right-of-way charging programs
- Multi-unit dwellings
- Clean fuels standard
- *And more!*

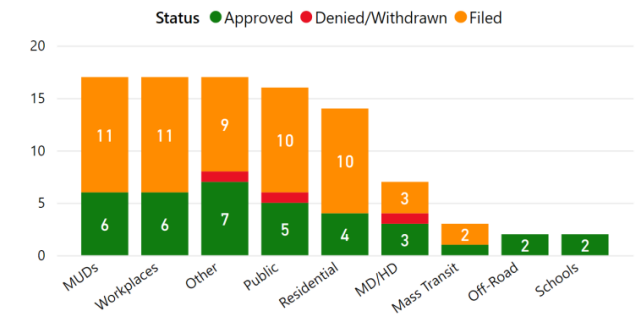


Utilities

Figure 4: Electric Utility Filings by Status Between 2012 and June 2021

Approved	Pending/Filed	Denied/Withdrawn
32 States	22 States	21 States
111 Filings	56 Filings	38 Filings
51 Utilities	33 Utilities	26 Utilities
\$3,076,300,118 Investment	\$2,093,601,953 Investment	\$537,866,476 Investment
6,257 DC Fast Charging Stations	2,558 DC Fast Charging Stations	504 DC Fast Charging Stations
223,858 Level 2 Charging Stations	212,148 Level 2 Charging Stations	86,143 Level 2 Charging Stations

Figure 7: Filings by Status and Type During H1 2021



This figure shows the number of program elements⁹ targeting each type of charging use, by status during H1 2021.

This chart summarizes approved, pending, and denied filings through June 2021.

Credit: Atlas Public Policy, Electric Utility Filing Bi-Annual Update

What's on the horizon?

Look to the federal level to continue to have the right scale and scope:

- 30C Alt fuel refueling property tax credit
- Additional reconciliation policies for EVSE deployment
- Appropriations
- Guidance from DOT/DOE on standards
- Allow for EVSE at rest stops
- EVs for All Act – grant program for EVSE at public housing (H.R. 6662)
- EVs in Underserved Communities Act (H.R. 1221 / S.507)
- Allow REAP funding to be used for installing EVSE on American farms (H.R. 6390)
- Renewable Fuel Standard policy– credit for generating electricity



Thank you!

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