Joint Office of Energy and Transportation

Communities Taking Charge Accelerator

FOA Number: DE-FOA-0003214
FOA Amount: $43.7 million

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Selections

Project awardees were announced on January 15, 2025—25 projects were selected, impacting 23 states, the District of Columbia, and Puerto Rico.

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Accelerating Shared E-Cargo Bike Adoption for Personal and Gig Economy Use Cases: Understanding How Pricing Strategies Affect Choices, Access, and Utilization

Topic: 2 – Expanding E-Mobility Solutions through Electrified Micro, Light and Medium-Duty Fleets

Project Lead: Carnegie Mellon University

Location: Pittsburgh, PA

Description

The goal of this proposal is to introduce e-cargo bikes into Pittsburgh, PA's existing bikeshare systems, POGOH, and identify pricing, allocation, and charging strategies that will accelerate ridership to families transporting goods or preferring storage space and lower barriers to participation in the delivery gig economy.

Partners

- Idaho National Laboratory (INL)
- National Renewable Energy Laboratory (NREL)
- Pittsburgh Region Clean Cities (PRCC)
- POGOH

Federal Award: $1,037,026

Cost Share: $532,048

Work Locations

- CO: Golden
- ID: Idaho Falls
- PA: Pittsburgh

A National City Climate Innovation Challenge: Increasing Charger Availability and Utilization in Urban Environments

Topic: 1 – Solving for No-Home Charging: Expanding Charging Access for Privately Owned E-Mobility

Project Lead: Los Angeles Cleantech Incubator

Location: Los Angeles, CA

Description

LACI proposes to launch its second City Climate Innovation Challenge to expand charging options and accessibility for privately-owned e-mobility while increasing utilization to help U.S. cities solve for no-home charging. LACI will partner with its portfolio and alumni startups, Automotus, ChargerHelp! and It's Electric, as well as Climate Mayors, Cityfi, and technology provider Voltpost (among other innovation partners to be identified during the project scope) to plan and demonstrate the needed infrastructure and compliance technology.

Partners

- Automotus
- ChargerHelp!
- Cityfi
- Climate Mayors
- It's Electric
- Voltpost, Inc

Federal Award: $3,000,000

Cost Share: $2,643,681

Work Locations

- AZ: Phoenix
- CA: Los Angeles, Sacramento
- MA: Boston
- MD: Baltimore
- NY: Brooklyn, New York

- OR: Portland
- TN: Chattanooga
- Washington, D.C.

Charging Ahead: Meeting the Demand for Public EV Charging on City Streets Through Private Partnerships

Topic: 1 – Solving for No-Home Charging: Expanding Charging Access for Privately Owned E-Mobility

Project Lead: WXY architecture + urban design

Location: New York, NY

Description

Drivers without access to garages or driveways need electric vehicle (EV) charging stations where they already park: the curb. The project will develop permitting pathways and online tools to efficiently and equitably allow for privately-operated and publicly-accessible (POPA) EV charging options, deployed in the public right-of-way.

Partners

- It's Electric, Inc.

Federal Award: $1,460,142

Cost Share: $31,692

Work Locations

- MA: Boston
- ME: Portland
- NY: Brooklyn, New York
- PA: Philadelphia, Pittsburgh
- TX: Dallas

Charging Up Boston's Bikeshare

Topic: 2 – Expanding E-Mobility Solutions through Electrified Micro, Light and Medium-Duty Fleets

Project Lead: Metropolitan Area Planning Council

Location: Boston, MA

Description

The objective of this project is to pilot the installation of four distinct methods for electrifying bikeshare stations in Boston in effort to reduce the labor-intensive and costly practice of battery-swapping and enable the expansion of station electrification across the regional bikeshare system. By establishing a preferred technology for station electrification, we can significantly increase access to electric bikeshare across the region which will induce mode shift away from single occupancy vehicles thus simultaneously reducing greenhouse gas emissions and traffic congestion.

Partners

- City of Boston
- Lyft

Federal Award: $414,117

Cost Share: $414,121

Work Locations

- MA: Boston

Democratizing Electric Mobility: Unlocking Curbside Charging in San Francisco

Topic: 1 – Solving for No-Home Charging: Expanding Charging Access for Privately Owned E-Mobility

Project Lead: San Francisco Environment Department

Location: San Francisco, CA

Description

The project will lead to readiness at 10-15 charger installation locations with 2-5 chargers each, between 2-4 sites targeted for multimodal hub integration, and between 4-6 sites.

Partners

- San Francisco County Transportation Agency
- San Francisco Municipal Transportation Agency
- San Francisco Public Utilities Commission

Federal Award: $1,244,951

Cost Share: $0

Work Locations

- CA: Bay Area Metropolitan Region, San Francisco

Development and Implementation of End-to-End Multi-Stakeholder EV Charging Management Framework to Enhance Grid Reliability

Topic: 3 – Managed Charging for Clean Reliable Energy

Project Lead: University of Alabama

Location: Tuscaloosa, AL

Description

Through communication and information exchange between power grid, charging network operators, smart chargers, electric vehicle (EV) users, the proposal will enable end-to-end coordinated charging, with improved grid reliability, including reduced peak load and cost, enhanced grid resilience, and delayed power grid infrastructure upgrade.

Partners

- National Renewable Energy Laboratory
- Siemens Industry, Inc

Federal Award: $2,145,864

Cost Share: $925,242

Work Locations

- AL: Tuscaloosa
- CO: Golden
- GA: Peachtree Corners

Direct to Customer EV Charging for Multifamily Housing

Topic: 1 – Solving for No-Home Charging: Expanding Charging Access for Privately Owned E-Mobility

Project Lead: Alaska Electric Light and Power Company

Location: Juneau, AK

Description

This project seeks to develop a novel public charging model that enables a utility to install electric vehicle (EV) charging equipment at multifamily housing complexes. Through development of equipment that leverages existing metering and billing processes, the utility can expand access to reliable, affordable, and grid-friendly charging.

Partners

- Aclara Technologies, LLC
- Tlingit Haida Regional Housing Authority

Federal Award: $816,733

Cost Share: $146,139

Work Locations

- AK: Juneau
- NH: Portsmouth

Electric Mobility (E-Mobility) Hubs: New Charging Models for Personal and Shared Mobility

Topic: 1 – Solving for No-Home Charging: Expanding Charging Access for Privately Owned E-Mobility

Project Lead: City of Portland

Location: Portland, OR

Description

This project will pilot curbside E-Mobility Hubs that support charging for personal electric vehicles (EVs) and shared-use electric fleets, including personal and shared EVs, e-scooters, and e-bikes. These strategies will make it easier for Portlanders, especially those who cannot charge at home, to access electric transportation options, by making it easier to charge their own devices and through improving access to shared electric systems.

Partners

- Forth Mobility
- It's Electric
- Lime
- Portland State University
- Zipcar

Federal Award: $1,712,577

Cost Share: $297,028

Work Locations

- CA: San Francisco
- MA: Boston
- NY: New York
- OR: Portland, OR

Electric Transportation Transformation Program

Topic: 2 – Expanding E-Mobility Solutions through Electrified Micro, Light and Medium-Duty Fleets

Project Lead: re:Charge

Location: Cleveland, OH

Description

The goal of the project is to leverage the existing federal Economic Development Agency (EDA) grants in Cleveland, and regional micromobility initiatives, to advance affordable electric micromobility in communities. The project will be the nation's first large-scale universal wireless charging network to provide accessible, safe and sustainable electric mobility. It will reduce the cost of shared micromobility systems operations and subsequently the users' fees and household transportation costs, as well the operations environmental impact in a replicable manner that will transform the micromobility industry in the US.

Partners

- 3MPH Planning
- Bird
- ChargerHelp
- City of Cleveland
- Clean Fuels Ohio
- Nelson Nygaard
- Seventh Hill Design
- University Circle

Federal Award: $2,105,665

Cost Share: $690,000

Work Locations

- OH: Cleveland

E-Micromobility Bans Don't Prevent Fires! Creating Safe, Affordable, and Accessible Pathways to Protect and Encourage E-Micromobility in Multi-Family Housing

Topic: 1 – Solving for No-Home Charging: Expanding Charging Access for Privately Owned E-Mobility

Project Lead: PopWheels, Inc

Location: New York, NY

Description

Low-income housing providers are under increasing pressure to either ban or discourage in-home micromobility usage because of the charging and fire risks. This project aims to show how a low-income housing developer can successfully provide charging solutions to its residents that allow continued successful use of micromobility.

Partners

- Sam Schwartz Engineering
- Settlement Housing Fund

Federal Award: $2,686,964

Cost Share: $1,864,701

Work Locations

- NY: Bronx, Brooklyn, Manhattan

EV Charging Readiness Codes, Standards, and Rates Collaborative

Topic: 1 – Solving for No-Home Charging: Expanding Charging Access for Privately Owned E-Mobility

Project Lead: Rocky Mountain Institute

Location: Boulder, CO

Description

This project proposes to create a suite of complementary codes and standards that encourage the ambitious development of affordable and equitable EV charging

infrastructure serving residents of multifamily housing, designed for a range of geographies and regulatory environments.

Partners

- Acterra: Action for a Healthy Planet's Electric Vehicle Charging for All Coalition
- American Council for an Energy-Efficient Economy (ACEEE)
- Argonne National Laboratory
- Boulder County Office of Sustainability
- Climate Action and Resilience (OSCAR)
- EVNoire
- GreenLatinos
- Institute for Market Transformation
- Live Green CT (Clean Transportation Coalition – Western Connecticut- LGCT)
- National Association of State Energy Officials (NASEO)
- Smart Growth America (SGA)
- Southeast Energy Efficiency Alliance (SEEA)
- TRC

Federal Award: $2,000,000

Cost Share: $0

Work Locations

- CA: Palo Alto
- CO: Boulder
- CT: Fairfield
- GA: Smyrna
- IL: Lemont
- NJ: Mount Laurel
- VA: Arlington
- Washington, DC

Fully Charged Communities: Expanding EV Hub-Based Charging in the Twin Cities

Topic: 2 – Expanding E-Mobility Solutions through Electrified Micro, Light and Medium-Duty Fleets

Project Lead: Hennepin County

Location: Minneapolis, MN

Description

Fully Charged Communities will establish a network of integrated hub-based carshare and public-facing electric vehicle (EV) chargers in the Hennepin County Cities of Brooklyn Center, Brooklyn Park, Minneapolis, and Robbinsdale. This pilot project will expand the coverage of the HOURCAR carshare network to provide affordable, sustainable mobility solutions to residents without home charging options or personal vehicles.

Partners

- Brooklyn Center
- Brooklyn Park
- HOURCAR
- Robbinsdale

Federal Award: $822,520

Cost Share: $401,614

Work Locations

- MN: Brooklyn Center, Brooklyn Park, Hennepin County, Minneapolis, Robbinsdale

GoSGV: Advancing Access to Innovative E-Cargo and E-Family Bicycles

Topic: 2 – Expanding E-Mobility Solutions through Electrified Micro, Light and Medium-Duty Fleets

Project Lead: Active San Gabriel Valley

Location: Monrovia, CA

Description

Expansion of an existing electric bike sharing program, including new e-cargo bikes for small businesses and families, and e-trikes for the disabled community, can equitably reduce carbon emissions, improve local air quality, provide energy/fuel savings, increase access to economic opportunity, and promote physical activity.

Partners

- Portland State University
- San Gabriel Valley Council of Governments
- The University of Tennessee, Knoxville

Federal Award: $489,316

Cost Share: $527,179

Work Locations

- CA: El Monte, Monrovia
- OR: Portland
- TN: Knoxville

How Can the Electrification of Shared Parking Lots and Establishment of Logistics Microhubs Support Sustainable and Equitable Last-Mile Delivery Systems?

Topic: 2 – Expanding E-Mobility Solutions through Electrified Micro, Light and Medium-Duty Fleets

Project Lead: University of Washington

Location: Seattle, WA

Description

This project aims to understand how the electrification of shared parking lots and the establishment of neighborhood logistics microhubs can support sustainable and equitable last-mile delivery and mitigate transportation- and freight-related externalities in communities. The project is envisioned to a) reduce vehicle emissions of urban logistics operations, b) increase the delivery efficiency, c) increase efficiency in off-street parking lot usage, and d) increase workforce opportunities and low-emission delivery services in communities.

Partners

- LAZ Parking
- National Renewable Energy Laboratory
- Net Zero Logistics, LLC
- Pennsylvania State University

Federal Award: $2,500,000

Cost Share: $1,750,000

Work Locations

- CO: Golden
- CT: Hartford
- MA: Boston
- NJ: Hoboken

- NY: New York City
- PA: University Park
- WA: Seattle

“I-EMPOWER” - Integrated Electric Micromobility POWerHubs for Equitable Replication

Topic: 1 – Solving for No-Home Charging: Expanding Charging Access for Privately Owned E-Mobility

Project Lead: Oonee

Location: Brooklyn, NY

Description

I-EMPOWER will design and deploy the country’s first two networks of integrated infrastructure hubs that provide both secure parking and safe charging for personal e-micromobility. Backed by an innovative business model, this first-of-its kind integration will increase the attractiveness of e-micromobility for multifamily housing residents, delivery workers, and others who rely on out-of-home infrastructure by reducing risk of theft and increasing convenience and access.

Partners

- NYU Rudin Center for Transportation Policy and Management
- Swobbee
- The City of Jersey City
- The City of Minneapolis

Federal Award: $3,774,248

Cost Share: $2,970,718

Work Locations

- Berlin, Germany
- MN: Minneapolis
- NJ: Jersey City
- NY: Brooklyn, New York

Illuminating the First Mile: Leveraging Lamppost Charging for E-Mobility Around Transit Hubs

Topic: 1 – Solving for No-Home Charging: Expanding Charging Access for Privately Owned E-Mobility

Project Lead: Voltpost, Inc.

Location: San Francisco, CA

Description

This project tackles barriers associated with home electric vehicle (EV) charging access by utilizing existing infrastructure, thereby reducing installation costs and permitting times. The strategic placement of chargers will support first-mile electrification for commuters, and by providing charging for electric car-sharing services, the project promotes alternative sustainable transportation options for low-income residents unable to purchase an EV, unlocking innovative private sector partnership models to scalably deploy chargers.

Partners

- Capitol Clean Cities
- Clean Transportation Coalition - Western Connecticut
- Clean Transportation Communities of Southern CT
- Cityfi
- Empire Clean Cities
- INF Associates
- New Jersey Clean Cities
- Zipcar

Federal Award: $2,564,470

Cost Share: $1,683,379

Work Locations

- CT: Ansonia, Berlin, Danbury, Derby, East Hartford, Groton, Hartford, Meriden, Middletown, New Haven, New London, Norwalk, Norwich, Stamford, Waterbury, Windsor
- NJ: Bayonne, Bergen, Bloomfield, Hudson, Hunterdon, Gladstone, Lebanon, Morristown, Saddle Brook, Somerset, Union, Wayne
- NY: Bellmore, Bronx, Brooklyn, Jefferson, Manhattan, Queens, Riverhead, Staten Island, Suffolk County

Metro Bike Share: Increasing Access Through Station Electrification

Topic: 2 – Expanding E-Mobility Solutions through Electrified Micro, Light and Medium-Duty Fleets

Project Lead: Los Angeles County Metropolitan Transportation Authority

Location: Los Angeles, CA

Description

This project allows Metro Bike Share to increase access to electric bikes by implementing electrified stations with in-dock charging. The introduction of in-dock charging improves the program's capacity to maintain fully charged electric bikes in the system. In addition, it reduces VMTs traveled by field staff, therefore reducing CO2 emissions, and ultimately decreasing environmental exposure and burdens.

Partners

- LADOT

Federal Award: $2,000,000

Cost Share: $6,325,000

Work Locations

- CA: Los Angeles

M & M - Managed Charging at Multifamily

Topic: 3 – Managed Charging for Clean Reliable Energy

Project Lead: SWTCH Energy Inc.

Location: Somerville, MA

Description

The industry benefits with a development of multi-family managed charging program that can be referenced across the country paired with open-source technologies which fosters a developing clean energy sector. Additionally, equipping communities with EV infrastructure in Puerto Rico enables the opportunity to generate revenue for multi-family residential buildings. Furthermore, these benefits can be re-distributed within the local economy.

Partners

- Argonne National Laboratory
- Luma Energy ServCo LLC

- WeaveGrid

Federal Award: $1,281,360

Cost Share: $1,455,000

Work Locations

- IL: Lemont
- Puerto Rico: San Juan

National Fleet Electrification Network (NFEN)

Topic: 2 – Expanding E-Mobility Solutions through Electrified Micro, Light and Medium-Duty Fleets

Project Lead: National Fleet Electrification Network Corp

Location: New York, NY

Description

The costs and challenges of deploying electric vehicle charging infrastructure are significant barriers to fleet electrification. This projects aims at accelerating fleet electrification by developing investment-ready regional charging hub plans that can be shared among various fleets in a region.

Partners

- AECOM
- City of Lompoc, Los Angeles Dept of Water & Power (LADWP)
- CALSTART
- California Dept of General Services (DGS)
- Clean Communities of Central NY
- Colorado Springs Utilities
- Empire Clean Cities
- Energy Power Research Institute (EPRI)
- EPRI
- Evenergi
- Hawaiian Electric Company (HECO)
- Long Island Power Authority (LIPA)
- Metropolitan Water District of Southern California (MWD)
- National Grid
- New York State Fleet (OGS)
- New York State Energy Research and Development Authority (NYSERDA)

- Sacramento Municipal Utility District (SMUD)
- Sacramento Regional Transit District (SacRT)

Federal Award: $3,879,878

Cost Share: $0

Work Locations

- CA: Pasadena
- MI: Ann Arbor
- NY: New York

Planning for and Demonstrating EV Technologies in Maine's Cold-Side Supply Chain

Topic: 2 – Expanding E-Mobility Solutions through Electrified Micro, Light and Medium-Duty Fleets

Project Lead: Gulf of Maine Research Institute

Location: Portland, ME

Description

This project seeks to lower the real and perceived social, economic and operational barriers to electrifying the distribution of aquacultural products.

Partners

- Greater Portland Council of Governments
- Sea Meadow Marine Foundation
- Shred Electric

Federal Award: $883,435

Cost Share: $163,738

Work Locations

- ME: Machias, New Gloud, Portland, Rockland

Reliable Electric Vehicle Infrastructure through Versatile and Equitable Managed Charging (REVIVE)

Topic: 3 – Managed Charging for Clean Reliable Energy

Project Lead: PacifiCorp

Location: Salt Lake City, UT

Description

The REVIVE project will implement comprehensive solutions that prioritize electric vehicle (EV) charging based on grid health, EV charging demand times, and customer preferences while adjusting charging rates dynamically in response to fluctuating grid conditions. The project will include end-to-end specifications of charging hardware, cybersecurity, grid communication requirements, and standards to enable reliable and scalable managed charging solution.

Partners

- Electric Power Engineers
- Merge Fleet Solutions
- National Renewable Energy Laboratory
- Utah State University

Federal Award: $1,500,000

Cost Share: $3,296,195

Work Locations

- CA: La Crescenta
- CO: Golden
- IL: Champaign
- OR: Portland
- TX: Austin, Houston
- UT: Millcreek, North Logan, Salt Lake City, West Valley City

South LA Takes Charge

Topic: 1 – Solving for No-Home Charging: Expanding Charging Access for Privately Owned E-Mobility

Project Lead: Tenemos que Reclamar y Unidos Salvar la Tierra-South LA

Location: Los Angeles, CA

Description

This project will engage South LA community members in planning, securing site commitments, and constructing equitable electric charging infrastructure at community-controlled sites, both on-street and off-street, throughout South LA. The initiative will ultimately build 60 e-mobility hubs, which will serve as key nodes for clean transportation in the area.

Partners

- CicLAvia
- Community Partners
- East Side Riders Bike Club
- GRID Alternatives Greater Los Angeles
- LA County Metropolitan Transportation Authority
- LA Department of Water and Power
- LA Department of Transportation
- LA Mayor's Office,
- Mobility Development Partners
- People for Mobility Justice
- Watts Century Latino Organization

Federal Award: $2,000,000

Cost Share: $4,645,000

Work Locations

- CA: Huntington Park, Los Angeles

Speeding Up Low Speed Vehicle (LSV) E-Mobility Solutions

Topic: 2 – Expanding E-Mobility Solutions through Electrified Micro, Light and Medium-Duty Fleets

Project Lead: Shared-Use Mobility Center

Location: Chicago, IL

Description

Regulatory inconsistency regarding low-speed vehicles (LSVs) and other ultralight e-mobility options is a major barrier to adoption. Gaps or contradictions in policy and conflicts among users add friction and confusion. This project will convene a diverse public-private-community stakeholder working group to develop model regulation, policies, and design guidelines to facilitate adoption of these lower impact, lower cost ultralight e-mobility modes.

Partners

- Cityfi Partners LLC
- Miami-Dade County Department of Transportation and Public Works
- Michigan Central and the Michigan Office of Future Mobility and Electrification

- The City of Detroit
- The Portland Bureau of Transportation and the Oregon Department of Transportation
- The South Bay Cities Council of Governments

Federal Award: $750,753

Cost Share: $0

Work Locations

- CA: Los Angeles, South Bay Cities
- CO: Denver
- FL: Miami-Dade County
- IL: Chicago
- MI: Detroit
- NY: New York
- OR: Portland
- PA: Pittsburgh
- Washington, DC

Spreading Shared Use Mobility for Fleets and TNCs

Topic: 2 – Expanding E-Mobility Solutions through Electrified Micro, Light and Medium-Duty Fleets

Project Lead: Mitra EV, Inc.

Location: Los Angeles, CA

Description

The project will install seven community charging hubs for depot or enroute charging, enable the deployment of over 130 electric vehicles (EVs), demonstrate a model for gig-economy, logistics drivers, pioneer an EV truck trial program, and conduct project evaluation and planning services for communities in non-EV MOU states. This project will demonstrate how developing community charging hubs in communities is an effective and replicable approach to reducing emissions, supporting local workforces and providing social and economic benefits.

Partners

- Clean Cities Georgia
- Downtown Ford Sacramento
- Drive Clean Colorado

- Lime
- Sacramento Clean Cities Coalition

Federal Award: $2,150,000

Cost Share: $6,627,822

Work Locations

- CA: Elk Grove, Gold River, Los Angeles, McClellan Park, Sacramento
- CO: Arvada, Aurora, Denver
- GA: Atlanta

Twin Cities Electric Bike Share Feasibility Study

Topic: 2 – Expanding E-Mobility Solutions through Electrified Micro, Light and Medium-Duty Fleets

Project Lead: The Great Plains Institute for Sustainable Development, Inc.

Location: Minneapolis, MN

Description

This project will provide the knowledge and engagement necessary to stand up a new, fully electric and equitable bike share system that will be comprehensively integrated with existing public transit and electric car share options in the Twin Cities region.

Partners

- City of Minneapolis
- City of Saint Paul
- The Alliance

Federal Award: $458,792

Cost Share: $50,000

Work Locations

- MN: Minneapolis

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