

Joint Office of Energy and Transportation
 FY23 Ride and Drive FOA DE-FOA-0002881

Topic	Topic Name	Project Title	Lead Organization	Location Of Work City	Location Of Work State	Federal Share	Cost Share	Total Costs	VTO Share	PARTNER Summary	Project Summary	Where Work is Being Done
1	Enhancing EV Charging Resiliency	Integrating Resilience Strategies for ZEV Infrastructure	Hawaii State Energy Office	Honolulu	HI	\$1,000,000	\$250,745	\$1,250,745	\$0	Utilities: Hawaiian Electric Company, Kaua'i Island Utility Cooperative Other Partners: Department of Accounting and General Services, Hawai'i Department of Transportation, Hawai'i Emergency Management Agency, Hawai'i Office of Homeland Security, City and County of Honolulu – Department of Transportation Services	The project will develop a statewide resiliency plan for Hawaii state fleets and identify necessary charging infrastructure and backup energy supply needs.	Statewide, across all Hawai'i counties: Hawai'i, Honolulu, Kaua'i, Maui
1	Enhancing EV Charging Resiliency	Resilience Evaluation and Enhancement of Charging Stations with Hierarchical Adaptive Restoration of Grids and Distributed Energy Resources (RECHARGE)	Iowa State University	Ames	IA	\$1,199,997	\$300,003	\$1,500,000	\$0	National Lab: Argonne National Laboratory (ANL), Utilities: Indiana Power and Light Company (AES Indiana), Dayton Power and Light Company (AES Ohio), Ames Municipal Utilities (AMU), Other Partners: Iowa Economic Development Authority (IEDA), Iowa Department of Homeland Security and Emergency Management (IDHSEM), Iowa Energy Office (IEO), Northwest Iowa Community College (NWIACC), City of Ames, Iowa, Indiana Economic Development Cooperation (IEDC), Indiana Energy Development Office (IEDO), Dayton Development Coalition (DDC), Blueview Electricity Inc. (BEI)	The project will design resilience plans for Indianapolis, Dayton, and Ames including evaluation and visualization of electrical resilience of EV Charging, guidance for grid hardening and future EV Charging placement; benefit-cost ratios of different technologies; storm preparation and restoration strategies considering EV Charging and energy justice.	Midwest, Greater Indianapolis, IN; Greater Dayton, OH; City of Ames, IA
1	Enhancing EV Charging Resiliency	Colorado's multi-network resilience plan for electrified transportation	Colorado State University	Fort Collins	CO	\$1,337,218	\$334,719	\$1,671,937	\$0	National Lab: National Renewable Energy Laboratory (NREL) Other Partners: Colorado Energy Office (CEO), Colorado Department of Transportation (CDOT), CSU's Office of Engagement and Extension (OEE), Drive Clean Colorado (DCC), Northern Colorado Clean Cities (NCCC), Save Energy Coalition (SECo)	This project seeks to develop frameworks, metrics, and tools to quantify the resilience of EV charging infrastructure and potential mitigation strategies for the state of Colorado. The project will create an EV charging infrastructure resiliency plan for Colorado State Agencies and their utility/commercial partners.	State of Colorado
1	Enhancing EV Charging Resiliency	Regional Electric Vehicle Infrastructure Resiliency (REVIR) Plan	University of North Dakota Energy & Environmental Research Center	Grand Forks	ND	\$1,500,000	\$375,000	\$1,875,000	\$0	Utilities: Cass County Electric Cooperative, Mountrail-Williams Electric Cooperative, Xcel Energy, ZEF Energy, SAGE Development Authority, Other Partners: North Dakota Industrial Commission, North Dakota Department of Transportation, Minnesota Department of Transportation, Montana Department of Transportation, North Dakota Clean Cities, Minnesota Clean Cities Coalition, North Dakota Department of Commerce, North Dakota Department of Emergency Services, Montana Department of Environmental Quality, Fargo-Moorhead Metropolitan Council of Governments, Connexus Capital LLC, Native Sun Community Power Development	The project will develop a regional electric vehicle infrastructure resiliency (REVIR) plan to facilitate a secure, reliable, resilient, and equitable EV charging ecosystem in the four-state region of Minnesota (MN), Montana (MT), North Dakota (ND), and South Dakota (SD).	four-state region of Minnesota (MN), Montana (MT), North Dakota (ND), and South Dakota (SD)
1	Enhancing EV Charging Resiliency	Monterey Bay Electric Vehicle Climate Adaptation and Resiliency Framework (Monterey Bay EV CAR Framework)	Association of Monterey Bay Area Governments	Monterey	CA	\$1,500,000	\$376,000	\$1,876,000	\$0	Other Partners: Ecology Action	The project will create the Monterey Bay Electric Vehicle Climate Adaptation and Resiliency Framework. The framework will include a complete analysis of climate vulnerabilities that exist for current EV infrastructure and includes implementation plans that provide a detailed pathway to successful and collaborative implementation.	Monterey Bay region
1	Enhancing EV Charging Resiliency	Planning Resilient EV Charging in Texas	North Central Texas Council of Governments	Arlington	TX	\$1,500,000	\$375,000	\$1,875,000	\$0	Utilities: Oncor Electric Delivery (Oncor) Other Partners: Dallas-Fort Worth International Airport (DFWIA), Dallas Area Rapid Transit (DART), City of Irving, City of Dallas, Dallas County, North Texas Innovation Alliance (NTXIA), City of Fort Worth, Tarrant County	The project will develop an EVSE resiliency plan for Dallas-Ft Worth area focused primarily on power failure, including specific facilities such as DFW which has a lot of electrified ground equipment.	16-county NCTCOG service area.
1	Enhancing EV Charging Resiliency	Strengthening Transit Bus Charging Resiliency: A Resilience Plan for New Jersey's Transit Electrification Transition	Research Foundation for SUNY on behalf of the University at Buffalo	Buffalo	NY	\$1,500,000	\$375,000	\$1,875,000	\$0	National Lab: National Renewable Energy Laboratory (NREL) Utilities: Public Service Electric and Gas Company (PSEG) Other Partners: Rutgers University, New Jersey Transit (NJ TRANSIT), New Jersey Clean Cities Coalition (NJCCC)	The project proposes developing a 20-year resiliency plan for New Jersey Transit's bus fleet, which is in the process of undergoing electrification (and has received FTA funding to do so).	New Jersey

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1	Enhancing EV Charging Resiliency	Guidance for a Resilient Electric NYC School Bus System	New York City Mayor's Office of Climate and Environmental Justice	New York	NY	\$1,471,264	\$367,816	\$1,839,080	\$0	Utilities: Consolidated Edison Company of New York, Inc. (Con Edison) Other Partners: New York City School Bus Umbrella Services (NYCSBUS), New York League of Conservation Voters (NYLCV), New York City Department of Education, Office of Pupil Transportation (NYCDOE), New York City Emergency Management, New York City Department of Transportation	The project will develop a citywide electric school bus resilience plan that provides comprehensive recommendations to optimize electrification efforts and ensure resilience and reliability of the New York City school bus system.	New York
2a	Community-Driven Models for Electric Vehicle Charging Deployment	Leveraging Low-Income Electricity Discounts to Unlock Equity at Public EV Charging	GRID Alternatives	Denver	CO	\$1,500,000	\$0	\$1,500,000	\$0	Utilities: East Bay Community Energy (EBCE) Other Partners: Smart Electric Power Alliance (SEPA), Drive Clean Colorado, EVNoire, Colorado Energy Office, City of Denver, Northern Californian Power Agency (NCPA), Community Housing Development Corporation (CHDC), Forth	The project will develop and test new business models for discounted public charging in partnership with the utility sector for equitable access to EV charging infrastructure. The portfolio of pilot projects to offer income-qualified EV owners discounted access to public charging by convening and working with a diverse range of utilities.	Northern California, Colorado, and Georgia/and or North Carolina geographies
2a	Community-Driven Models for Electric Vehicle Charging Deployment	Project LACE: Loans to Access Clean Evs	Forth	Portland	OR	\$1,269,995	\$0	\$1,269,995	\$0	Utilities: ZEF Energy Other Partners: National Consumer Law Center, Metropolitan Family Service, North Dakota Clean Cities, Minnesota Clean Cities Coalition, Smart Electric Power Alliance, International Brotherhood of Electrical Workers, Native Sun Community Power Development (NSCPD), Lyft, Point West Credit Union, Self-Help Credit Union, Washington State Department of Commerce	The project will develop, analyze, and promote innovative business models for EV financing to address the barriers faced by underserved populations in Justice40 communities, and develop program templates and financing options tailored to the specific needs of different regions and demographics within the United States.	Portland, Minnesota, and Tribal area in North Dakota.
2a	Community-Driven Models for Electric Vehicle Charging Deployment	Electric Vehicle Carshare Viability: Assessing Business Models in US Cities for Resiliency, Equity and EV Charging Integration	Rocky Mountain Institute	Boulder	CO	\$1,520,750	\$0	\$1,520,750	\$0	Other Partners: HOURCAR, City of Saint Paul, East Metro Strong, Mobility Development Partners, Forth	This project will determine the most effective business and economic models for electric carshare viability and charging, sharing lessons learned with cities that are interested in starting or re-starting electric carshare programs of their own, particularly to benefit low-to-moderate income and Justice40 communities.	Minnesota
2a	Community-Driven Models for Electric Vehicle Charging Deployment	Developing a Community-Driven Model for Mid-North EV Charging	The Children's Museum of Indianapolis	Indianapolis	IN	\$285,500	\$32,565	\$318,065	\$0	Other Partners: Drive Clean Indiana, Black Onyx Management	The project will develop a community-driven EV charging business model that, once operationalized, will create up to 60 publicly accessible chargers on TCM's campus in Mid-North Indianapolis.	Mid-North Indianapolis.
2a	Community-Driven Models for Electric Vehicle Charging Deployment	Charging Infrastructure Deployment in Underserved Latino Multi-Family Housing Communities	Citizen Energy, LLC	Washington	DC	\$1,478,244	\$177,496	\$1,655,740	\$0	Utilities: Dominion Energy Other Partners: CASA, Greater Washington Region Clean Cities Coalition, Edu-Futuro, ecoLatinos, Latino Alternative Television	This project will develop and test an innovative community-driven business model for overcoming barriers to electric vehicle (EV) adoption and charging infrastructure deployment in underserved Latino multi-family housing communities in Virginia, Maryland and DC.	Various disadvantaged/underserved communities in Virginia, Maryland and DC.
2a	Community-Driven Models for Electric Vehicle Charging Deployment	Project SYNC - Share Your eRoute Charge	Virginia Electric and Power Company d b a Dominion Energy Virginia	Richmond	VA	\$1,487,838	\$540,270	\$2,028,108	\$0	Other Partners: Bay Transit, Jaunt, Virginia Clean Cities (VCC), and Virginia Department of Rail and Public Transportation (DRPT)	The project will develop and test a business model in Virginia by installing enroute electric vehicle chargers that provide strategic Transit Agency vehicles and the general public with reliable, affordable access to EV charging.	Virginia
2a	Community-Driven Models for Electric Vehicle Charging Deployment	Accelerating Curbside EV Charging in Justice40 Communities	It's Electric Incorporated	Brooklyn	NY	\$1,475,000	\$957,808	\$2,432,808	\$0	Other Partners: Charge Across Town, ChargerHelp!, Cityfi, SWTCH	The project will demonstrate behind-the-meter connection to deploy curbside EVSE that reduces time and costs associated with installing publicly-accessible EVSE in dense urban areas in VA, MI, NJ and CA.	Justice40 neighborhoods across four Partner Cities: Alexandria, VA; Detroit, MI; Jersey City, NJ; and Los Angeles, CA.
2a	Community-Driven Models for Electric Vehicle Charging Deployment	Red Hook Recharge Zone	Revel Transit, Inc.	Brooklyn	NY	\$405,500	\$41,975	\$447,475	\$0	Other Partners: Empire Clean Cities, Green City Force	The project will develop a replicable business model for EV charging deployment in Justice40 communities in the Brooklyn area.	Brooklyn, NY
2a	Community-Driven Models for Electric Vehicle Charging Deployment	Developing a Zero Emission Delivery Business and Policy Model Platform to Innovate Goods Movement in Justice40 Communities and U.S. Cities	Los Angeles Cleantech Incubator	Los Angeles	CA	\$1,364,445	\$262,348	\$1,626,793	\$0	Other Partners: Cityfi LLC, Climate Mayors, Urban Freight Lab	This project will create zero emission delivery (ZED) solutions through community-centered pilots and produce a Zero Emission Delivery Business and Policy Model Platform for cities across the country to utilize in adapting and replicating best practices for scaling zero emission delivery solutions.	CA, WA, DC

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2a	Community-Driven Models for Electric Vehicle Charging Deployment	SACHUB: Sustainable Access and Charging Hubs for Urban Benefits	CALSTART	Pasadena	CA	\$1,499,693	\$980,748	\$2,480,441	\$0	Other Partners: Sacramento Metropolitan Air Quality Management District (SMAQMD), Sacramento Regional Transit District (SRTD), Sacramento Clean Cities Coalition (SCCC)	The project will implement e-mobility hubs at three sites owned by SacRT and adjacent to light rail stations. The e-mobility hubs will not only activate the light rail stations, but will provide access to EV carshare, bike and scooter share, electric microtransit, and EV charging. This suite of clean mobility options will increase access for area residents to work, school, services, and recreation, while shifting trips away from gas-powered and single-occupancy vehicles.	Sacramento, CA
2b	Workforce Development	Bipartisan Infrastructure Law (BIL) Joint Office of Energy and Transportation Ride and Drive Electric, Fiscal Year 2023	ICF Incorporated, L.L.C.	Reston	VA	\$1,499,099	\$0	\$1,499,099	\$0	Other Partners: Electric Vehicle Infrastructure Training Program (EVITP) & SkillFusion	This project will develop a new Electric Vehicle Supply Equipment (EVSE) Service Provider pre-apprenticeship program designed to address EVSE maintenance issues that will compliment existing EVITP training. Program graduates will exit with a nationally and industry recognized credential. Graduates will be prepared to conduct assessments of EVSEs and address any non-electrical and programming issue. The pre-apprenticeship program will be piloted in four counties in Michigan and California. Once deployed, the project will increase the number of trained individuals in common EVSE issues who will help ensure a more reliable charging experience.	Michigan and California
2b	Workforce Development	Plug In Philly	Office of Transportation, Infrastructure, and Sustainability (PHILADELPHIA, CITY OF)	Philadelphia	PA	\$1,470,995	\$479,337	\$1,950,332	\$1,470,995	Other Partners: IBEW Local 98/ATEI, Community College of Philadelphia, Philadelphia Works, Inc., Eastern Pennsylvania Alliance for Clean Transportation, Electrification Coalition	Plug in Philly will empower aspiring EV supply and equipment workers by 1) building an initiative between Philadelphia and the IBEW to run an EVSE focused pre-apprentice program 2) increasing awareness of high-paying professional opportunities in EVSE through outreach to disadvantaged communities and 3) developing demand-side programming to support graduates' job placement.	Philadelphia, PA
2b	Workforce Development	Preparing Diverse Women for Oregon's Transportation Electrification Workforce	Oregon Tradeswomen, Inc.	Portland	OR	\$1,256,363	\$0	\$1,256,363	\$0	Utility Partners: Portland General Electric Other Partners: Metropolitan Alliance for Workforce Equity, Oregon Department of Transportation, NECA/IBEW Local 48 Electrical Training Center, & Worksystems	This project will undertake robust community outreach efforts to ensure a diverse participation of 200 low-income women in a pre-apprenticeship program at no cost. The pre-apprenticeship program will prepare jobseekers for a career in skilled construction trades necessary for EVSE and offer a path forward to electrical apprenticeship. The project will also work towards certifying existing electricians, 200, with EVITP. Upon completion, Oregon will have a more diverse and qualified workforce to install and maintain EV charging stations.	Oregon
2b	Workforce Development	EV-Skilled Trades Employment Program (EVSTEP)	Wisconsin Regional Training Partnership, Inc.	Milwaukee	WI	\$1,500,178	\$134,786	\$1,634,964	\$1,500,178	Other Partners: Milwaukee Urban League, The Way Out, My Way Out, EmpowHer	The EV Skilled Trades Employment Program addresses systemic workforce barriers for women, people of color, justice-impacted, and opportunity youth face when entering the clean energy sector. EVSTEP will create equitable career pathways for participants, by using pre-apprenticeship programs associated with EV Charging that include supportive services, direct pathways to union partners for apprenticeship and access to additional training, and industry placement. By the end of the project 200 people will have been exposed to employment opportunities and 100 people will have begun training.	Wisconsin
2b	Workforce Development	Training 2 Work EV Work Based Learning	The Dannon Project	Birmingham	AL	\$1,500,000	\$0	\$1,500,000	\$0	Utility Partners: Alabama Power Company, Other Partners: Mercedes Benz, US, IBEW Union #135, Iron Workers #92, The City of Birmingham, The Campus of Hope Housing Authority, Lawson State Community College (HBCU), Alabama Department of Transportation, & Alabama Office of Workforce Development	This project will implement its nationally recognized ACER – <i>A Chance for Everyone Returning Program</i> , an evidenced-informed occupational training & employment program with goals to expand access to career-track training and employment in EVSE installation & maintenance work for a diversified pipeline of individuals.	Alabama
2b	Workforce Development	Expansion of Project Mobility	Housing Authority County of San Joaquin (ALBANY HOUSING AUTHORITY)	Stockton	CA	\$1,213,740	\$0	\$1,213,740	\$1,213,740	Other Partners: Edge Collaborative, Delta College, San Joaquin County Office of Education, & Imperial Electric	The project is the cornerstone of a Green Economy Lab in Stockton, CA becoming a hub for Green Economy companies in the area, providing space for companies to encourage the growth of the sector in Stockton and providing residents with training necessary to engage in the electrification and green economy sector and jobs placement.	San Joaquin County California

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2b	Workforce Development	The Corps Network [TCN] Concept Paper: Conservation Corps: Building America's Electric Vehicle Charging Infrastructure	The Corps Network	Washington	DC	\$1,500,000	\$0	\$1,500,000	\$0	Other Partners: Civic Works & Laborers' International Union of North America	The Corps Network (TCN) proposes to support efforts to expand access to career-track training and employment in Electric Vehicle Supply Equipment (EVSE) installation and maintenance work for a diversified pipeline of individuals in Baltimore, Maryland. The Corps Network project proposes to engage and train 100 pre-apprentices with a goal of placing a minimum of 80 in high-quality electric charging focused careers including apprenticeship opportunities.	Baltimore, MD
3a	Increasing Commercial Capacity for Testing and Certification of High-Power Electric Vehicle Chargers	Developing New Tools to Expand Access to Plug and Charge Technology	EVgo Services LLC	El Segundo	CA	\$1,151,927	\$1,328,641	\$2,480,568	\$0	Other Partners: Plug In America	This project will establish an EVITP scholarship program to increase the number of certified electricians in the workforce to meet increasing demand for DCFC deployment.	CA
3a	Increasing Commercial Capacity for Testing and Certification of High-Power Electric Vehicle Chargers	An EV Charging & Interoperability Test Bed for Scaling EV's	American Center for Mobility	Ypsilanti	MI	\$2,900,325	\$2,901,237	\$5,801,562	\$0	Other Partners: CharIN National Laboratory: Argonne National Lab	This project will expand the American Center for Mobility's EV charger test environment, increasing industrial capacity, competition, redundancy, and broad access to validation testing and certification in the United States of DC fast chargers with rated power capacity between 150 kW and 1 MW.	Michigan
3a	Increasing Commercial Capacity for Testing and Certification of High-Power Electric Vehicle Chargers	Topic 3A: Charger Assessment and Testing at Lazy Q (CHAT@Lazy Q)	Quanta Technology, LLC	La Grange	TX	\$2,278,281	\$2,434,057	\$4,712,338	\$0	Other Partners: Quanta Energized Services (QES), Texas State University, Mississippi State University, ABB, Navistar, Electrical Training Alliance (NECA-IBEW), Veteran's Electrical Entry Program (VEEP), US-Ignite	The proposed project aims to upgrade the independent testing and training facility at the Lazy Q ranch in La Grange, TX, to a state-of-the-art EV charger testing facility capable of full power testing at the megawatt scale. The upgrade will provide an environment to test and study the challenges of electrification technologies on the utility infrastructure while operating independently of the local power utility and its interconnection timelines.	LaGrange, TX
3a	Increasing Commercial Capacity for Testing and Certification of High-Power Electric Vehicle Chargers	Expansion of UL Solutions' North America Advance Electric Vehicle Charging Laboratory for inclusion of additional DC fast charger testing capability	UL LLC	Northbrook	IL	\$2,997,220	\$2,997,221	\$5,994,441	\$0	None	The project sets out to increase testing capacity at existing UL facilities to allow for more EV chargers, EV connectors and Energy Star Certifications to be tested simultaneously, and at higher power levels.	NC, IL
3b	Validating Public EV Charging Infrastructure Real-World Performance and Reliability	TEST Real-World Charging: Team-based Evaluation, Surveying & Training (TEST) for Real-World Charging	CENTRAL PINES REGIONAL COUNCIL (Triangle J Council of Governments)	Durham	NC	\$3,934,628	\$0	\$3,934,628	\$0	Other Partners: East Tennessee Clean Fuels Coalition National Lab: Idaho National Laboratory	The Team-based Evaluation, Surveying & Training (TEST) for Real-World Charging Project will work with 26 Clean Cities Coalitions across the country to establish a national baseline for the state of electric vehicle charging, in terms of user experience. It will employ potential workforce individuals to receive training and complete assessments of current EV infrastructure. From these rich data points a training program for State DOT's will be developed and launched online and in-person intending to be used nationwide.	NC, TN, ID, KS, NY, MN, PA, OH, OK, VA, DC, and 12 additional states