

Fiscal Year 2021 Low Greenhouse Gas (GHG) Vehicle Technologies Research, Development, Demonstration and Deployment

FOA # DE-FOA-0002475

Applicant	Location city, state	Project Description	Federal Share
AOI 1 – Electric Vehicle Charging Community Partner Projects			
Forth	Portland, OR	Affordable Mobility Platform (AMP)	\$5,020,217
Metropolitan Energy Center	Kansas City, MO	EV Market Stimulation in Divested Economies	\$5,222,326
Native Sun Community Power Development	Minneapolis, MN	Upper Midwest Inter-Tribal EV Charging Community Network	\$6,666,667
Tennessee Technological University	Cookeville, TN	Rural Reimagined: Building an EV Ecosystem and Green Economy for Transforming Lives in Economically Distressed Appalachia	\$4,012,930
AOI 2 – Electric Vehicle Workplace Charging			
CALSTART	Pasadena, CA	Charge to Work USA: National Workplace Charging Program	\$3,999,994
Columbia-Willamette Clean Cities Coalition	Tualatin, OR	Equitable Mobility Powering Opportunities for Workplace Electrification Readiness (EMPOWER)	\$3,970,539
Forth	Portland, OR	Leadership of Employers for Electrification Program (LEEP)	\$4,000,000
AOI 3 - Reducing the Cost of DC Fast Charging Equipment			
BorgWarner Inc	Auburn Hills, MI	Technology & Design Innovations to Maximize the Reduction Effect on DCFC Unit Cost Economics (Max-REDUCE)	\$4,093,880
Eaton Corporation	Menomonee Falls, WI	A Solid State Technology Enabled Compact, Modular Design to Reduce DC Fast Charging Cost and Footprint	\$4,906,074
North Carolina State University	Raleigh, NC	Ultra-low Cost, All-SiC Modular Power Converters for DC Fast Charging Equipment Connected Directly to Medium Voltage Distribution System	\$3,858,644
AOI 4a - Research to Transform the Efficiency of Off-Road Vehicles			
Eaton Corporation	Southfield, MI	Simultaneous Greenhouse Gas and Criteria Pollutants Emissions Reduction for Off-Road Powertrains	\$2,377,904
Marquette University	Milwaukee, WI	Development of a Flex Fuel Mixing Controlled Combustion System for Gasoline/Ethanol Blends Enabled by Prechamber Ignition	\$2,500,000
AOI 4b - Electrified Construction Vehicle Research, Development, and Validation			
John Deere	Moline, IL	Articulated Dump Truck (ADT) Electrification - GHG Reductions and Commercialization of New Technology in Construction Vehicles Fleet	\$2,756,732
University of Minnesota – Twin Cities	Minneapolis, MN	Fully Electric Powered, Hydraulic Assisted, Compact Track Loader	\$2,365,364
AOI 5 – Natural Gas Engine Enabling Technologies			

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Cummins Inc.	Columbus, IN	Cummins High Efficiency, Ultra Low Emissions Heavy-Duty 10L Natural Gas Engine Project	\$4,000,000
University of Minnesota - Twin Cities	Minneapolis, MN	Plasma-Assisted Pre-Chamber Ignition System for Highly Dilute Stoichiometric Heavy-Duty Natural Gas Engines	\$1,645,430
AOI 6 - Dimethyl Ether and Propane Engine Enabling Technologies			
University of Wisconsin-Madison	Madison, WI	High-Efficiency Mixing Controlled Compression Ignition Combustion of Propane DME Blends	\$2,373,453
WM International Engineering L.L.C.	Darrien, IL	High Pressure Fast Response Direct Injection System for Liquefied Gas Fuels Use in Light-Duty Engines	\$1,994,690
AOI 7 – Integrated Hybrid System with Opposed Piston 2-Stroke			
Achates Power Inc	San Diego, CA	Opposed-Piston 2-Stroke Hybrid Commercial Vehicle System	\$5,000,000
AOI 8 - Natural Gas Vehicle Technology Proof of Concept			
ASRC Consulting & Environmental Services, LLC	Anchorage, AK	Project Siĵa: An Arctic CNG Pilot Test Program	\$1,064,076