Hydrogen and Fuel Cells R&D FY 2021 Funding Opportunity Announcement

DE-FOA-0002446

These awards are funded by the U.S. Department of Energy's Hydrogen and Fuel Cell Technologies Office within the Energy Efficiency and Renewable Energy Office (EERE), with contributions from EERE's Advanced Manufacturing Office.

Selectee Name	Location (city, state)	Project Title	Federal Share		
TOPIC 1: FUEL CELL R&D FOR HEAVY-DUTY APPLICATIONS: SUBTOPIC 1A – LOW-COST, DURABLE BIPOLAR					
PLATES AND INNOVATIVE, LOW-COST AIR MANAGEMENT COMPONENTS					
General Motors, LLC	Pontiac, MI	Fuel Cell Bipolar Plate	\$1,998,642		
		Technology Development for			
		Heavy Duty Applications			
NeoGraf Solutions, LLC	Lakewood, OH	Development of Low Cost,	\$1,643,157		
		Thin Flexible Graphite Bipolar			
		Plates for Heavy-Duty Fuel Cell			
		Applications			
Plug Power, Inc.	Latham, NY	Fully Unitized Fuel Cell	\$1,838,486		
		Manufactured by a			
		Continuous Process			
Raytheon Technologies	East Hartford, CT	Low-Cost Corrosion-Resistant	\$1,252,404		
Research Center		Coated Aluminum Bipolar			
		Plates by Elevated			
		Temperature Formation and			
		Diffusion Bonding			
Treadstone Technologies Inc.	Princeton, NJ	Development and	\$1,415,162		
		Manufacturing for Precious			
		Metal Free Metal Bipolar Plate			
		Coatings for Proton Exchange			
		Membrane (PEM) Fuel Cells			
TOPIC 1: FUEL CELL R&D FOR HEAVY-DUTY APPLICATIONS; SUBTOPIC 1B – INNOVATIVE, LOW-COST AIR MANAGEMENT COMPONENTS					
Caternillar Inc	Mossville II	Leveraging Internal	\$2,000,000		
	1000001112	Combustion Engine (ICE) Air	<i>\$2,000,000</i>		
		System Technology for Fuel			
		Cell System Cost Reduction			
Eaton Corporation	Southfield, MI	High Efficiency and Transient	\$2.000.000		
		Air Systems for Affordable	+_)======		
		Load-Following Heavy-Duty			
		Truck Fuel Cells			
Mahle Powertrain, LLC	Plymouth. MI	Durable and Efficient	\$1.600.000		
,	,,	Centrifugal Compressor-Based	. , -,		
		Filtered Air Management			
		System and Optimized Balance			
		of Plant (BOP)			
R&D Dynamics Corporation	Bloomfield, CT	Foil Bearing Supported	\$1,600,000		
		Compressor-Expander	-		

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TOPIC 2: EFFICIENT AND INNOVATIVE HYDROGEN PRODUCTION; SUBTOPIC 2A – HIGH TEMPERATURE					
ELECTROLYZER MANUFACTURIN	IG R&D				
Cummins, Inc.	Milpitas, CA	Automation of Solid Oxide Electrolyzer Cell (SOEC) & Stack Assembly	\$5,000,000		
Nextech Materials, Ltd.	Lewis Center, OH	Low-Cost Manufacturing of High Temperature Electrolysis Stacks	\$3,333,257		
TOPIC 2: EFFICIENT AND INNOV	ATIVE HYDROGEN PRODUCT	ION; SUBTOPIC 2B – INNOVATIVE	HYDROGEN		
PRODUCTION FROM BIOMASS WASTE STREAMS					
Pennsylvania State University	University Park, PA	Novel Microbial Electrolysis Cell Design for Efficient Hydrogen Generation from Wastewaters	\$1,000,000		
Southern Company Services, Inc.	Birmingham, AL	Novel Microbial Electrolysis System for Conversion of Biowastes into Low-cost Renewable Hydrogen	\$997,897		
TOPIC 3: HIGH-FLOW FUELING APPLICATIONS; SUBTOPIC 3A – DOMESTIC SUPPLY CHAIN FOR HIGH-FLOW HYDROGEN FUELING STATIONS					
Czero, Inc.	Fort Collins, CO	Advanced High Throughput Compression System for Medium- and Heavy-duty Transportation	\$2,729,167		
Gas Technology Institute	Des Plaines, IL	Cost-Effective Pre-Cooling for High-Flow Hydrogen Fueling	\$1,998,186		
Nikola Corporation	Phoenix, AZ	Autonomous Fueling System for Heavy-Duty Fuel Cell Electric Trucks	\$2,010,214		
TOPIC AREA 4: COST AND PERFORMANCE ANALYSIS FOR FUEL CELLS, HYDROGEN PRODUCTION, AND HYDROGEN STORAGE					
Strategic Analysis, Inc.	Arlington, VA	Fuel Cells Analysis	\$1,499,960		
		Hydrogen Production Analysis	\$999,998		
		Hydrogen Storage Analysis	\$999 <i>,</i> 998		