Selectee	Location	Project Title	Federal	
	(city, state)		Share	
Topic 1 ElectroCat				
Northeastern	Boston, MA	Developing Platinum Group Metal-Free Catalysts	\$1,000,000	
University		for Oxygen Reduction Reaction in Acid: Beyond		
		the Single Metal Site		
Indiana	Purdue, IN	Mesoporous Carbon-based PGM-free Catalyst	\$1,002,789	
University		Cathodes		
Purdue				
University				
Vanderbilt	Nashville, TN	Fuel Cell Membrane-Electrode-Assemblies with	\$880,034	
University		PGM-free Nanofiber Cathodes		
Pajarito Powder	Albuquerque,	Active and Durable PGM-free Cathodic	\$999,814	
	NM	Electrocatalysts for Fuel Cell Application		
United	Hartford, CT	High Performance Non-PGM Transition Metal	\$999,982	
Technologies		Oxide Oxygen Reduction Catalysts for Polymer		
<b>Research Center</b>		Electrolyte Membrane Fuel Cells		
Topic 2A – Energy Production and Hydrogen Fueling				
Plug Power	Latham, NY	Autonomous Hydrogen Fueling Station	\$1,997,216	
Equilon	Houston, TX	Integrated Control & Dispatch of Renewable	\$1,999,553	
Enterprises LLC		Hydrogen Generation At Scale		
(dba Shell Oil				
Products US)				
Skyre, Inc.	Hartford, CT	Electrolyzer Integrated Modular Nano-Array	\$2,000,000	
		Monolithic Catalytic Reactors for Low		
		Pressure/Temperature and High Flux Synthetic		
		Fuel Production		
Giner, ELX Inc.	Newton, MA	Anode-Boosted Electrolysis	\$1,744,728	
Topic 2B – Electrolyzer Manufacturing				
3M Company	Maplewood,	Low-cost, High Performance Catalyst Coated	\$1,860,026	
	MN	Membranes for PEM Water Electrolyzers		
University of	Tullahoma, TN	Developing novel electrodes with ultralow catalyst	\$2,000,000	
Tennessee		loading for high-efficiency hydrogen production in		
Space Institute		proton exchange membrane electrolyzer cells		
University of	Storrs, CT	Catalyst Layer Design, Manufacturing and In-line	\$2,000,000	
Connecticut		Quality Control		
Clemson	Clemson, SC	Laser 3D Printing of Highly Compacted Protonic	\$1,600,000	
University		Ceramic Electrolyzer Stack		
Topic 2C – Infrastructure Station Footprint				
National	Golden, CO	Direct Cooling of Hydrogen to Decrease Energy	\$1,200,000	
Renewable		Consumption in Hydrogen Vehicle Fueling		
Energy		Infrastructure		
Laboratory				
Washington	Pullman, WA	Optimizing the Heisenberg Vortex Tube for	\$1,657,757	
State University		Hydrogen Cooling		

Greenway	Aiken, SC	Novel Metal Hydride Material Development for	\$2.404.600		
Energy	- ,	High Efficiency and Low-Cost Hydrogen	. , - ,		
		Compressors			
Gas Technology	Des Plaines, IL	Free-Piston Expander for Hydrogen Cooling	\$2,500,000		
Institute			+_,,		
Topic 3A – Fuel Cell Membranes					
Rensselaer	Troy, NY	Ethylene-Norbornene based Alkaline Exchange	\$1,000,000		
Polytechnic		Polymers and Reinforced Membranes			
Institute					
Pennsylvania	State College,	Advanced Anion Exchange Membranes with	\$997,944		
State University	PA	Tunable Water Transport for High Performance,			
		Long Lifetime and PGM-Free AEMFCs			
Drexel	Philadelphia,	PILBCP-IL Composite Ionomers for High Current	\$993,735		
University	PA	Density Performance			
Vanderbilt	Nashville, TN	Composite PEMs from Electrospun Crosslinkable	\$600,000		
University		Poly(Phenylene Sulfonic Acid)s			
Xergy, Inc.	Harrington, DE	Novel non-PFSA Proton Exchange Membrane for	\$1,000,000		
	_	Fuel Cell Application			
Lawrence	Berkeley, CA	Molten Hydroxide Dual-Phase Membranes for	\$1,000,000		
Livermore		Intermediate Temperature Anion Exchange			
National		Membrane Fuel Cells			
Laboratory					
	Торіс	3B – Reversible and Liquid Fuel Cells			
Lawrence	Berkeley, CA	Novel Bifunctional Electrocatalysts, Supports and	\$1,000,000		
Berkeley		Membranes for High Performing and Durable			
National		Unitized Regenerative Fuel Cells			
Laboratory					
Northwestern	Evanston, IL	Efficient Reversible Operation and Stability of	\$974,694		
University		Novel Solid Oxide Cells			
Giner, Inc.	Newton, MA	High-Efficiency Reversible Alkaline Membrane Fuel	\$999 <i>,</i> 503		
		Cells			
Georgia	Atlanta, GA	Durable, High-Performance Unitized Reversible	\$750,000		
Institute of		Fuel Cells Based on Proton Conductors			
Technology					
University of	Lawrence, KS	Stationary Direct Methanol Fuel Cells Using Pure	\$999,399		
Kansas Center		Methanol			
for Research,					
Inc.					