

List of Projects Presented but Not Reviewed

Project ID	Project Title	Principal Investigator Name	Organization
ARPAE01	Advanced Solid Oxide Fuel Cell Stack for Hybrid Power Systems	Scott Swartz	Nexceris, LLC
ARPAE02	Low-Cost Intermediate-Temperature Fuel Flexible Protonic Ceramic Fuel Cell Stack	Chuancheng Duan	Colorado School of Mines
ARPAE03	Protonic Ceramics for Energy Storage and Electricity Generation with Ammonia	Chuancheng Duan	Colorado School of Mines
ARPAE04	Development of a Novel High-Efficiency, Low-Cost Hybrid Solid Oxide Fuel Cell/ Internal Combustion Engine Power Generator	Robert Braun	Colorado School of Mines
ARPAE05	2D Materials-Based Proton Conductive Membranes	Ivan Blassioug and Sergei Smirnov	General Graphene/New Mexico State University
ARPAE06	High-Power Metal-Supported Solid Oxide Fuel Cells for Electric Vehicle Range Extenders	Emir Dogdibegovic	Lawrence Berkeley National Laboratory
ARPAE07	Dual-Mode Energy Conversion and Storage Flow Cell	Christopher Capuano	Nel Hydrogen
ARPAE08	Advanced Catalyst and Engineered Catalyst Supports for Fuel Cells, Electrolyzers, and Energy Storage	Barr Zulevi	Pajarito Powder LLC
ARPAE09	Channeling Engineering of Hydroxide Ion Exchange Polymers and Reinforced Membranes	Chulsung Bae	Rensselaer Polytechnic Institute
ARPAE10	Highly Conductive, Stable, and Robust Hydroxide Exchange Membranes Based on Poly(aryl Piperidinium)	Santiago Rojas-Carbonell	University of Delaware
ARPAE11	Direct Ammonia Fuel Cells for Transport Applications	Reza Abbasi	University of Delaware
ARPAE12	Advanced Alkaline Membrane Hydrogen/ Air Fuel Cell System with Novel Technique for Air CO ₂ Removal	Brian Setzler	University of Delaware
ARPAE14	Adaptive Solid Oxide Fuel Cell for Ultrahigh-Efficiency Power Systems	Fred C. Jahnke	FuelCell Energy, Inc.

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ARPAE15	Cost-Effective, Intermediate-Temperature Fuel Cells for Carbon-Free Power Generation	Greg Tao	Chemtronergy, LLC
FC105	Novel Structured Metal Bipolar Plates for Low-Cost Manufacturing	C.H. Wang	TreadStone Technologies, Inc.
FC117	Fiscal Year 2018 Small Business Innovation Research (SBIR) Phase IIB: Ionomer Dispersion Impact on Polymer Electrolyte Membrane Fuel Cell and Electrolyzer Durability	Hui Xu	Giner, Inc.
FC128	Facilitated Direct Liquid Fuel Cells with High-Temperature Membrane Electrode Assemblies	Emory DeCastro	Advent Technologies, Inc.
FC142	Extended Surface Electrocatalyst Development	Bryan Pivovar	National Renewable Energy Laboratory
FC143	Highly Active, Durable, and Ultralow-Platinum-Group-Metal Nanostructured Thin Film Oxygen Reduction Reaction Catalysts and Supports	Andrew Steinbach	3M Company
FC167	Fiscal Year 2018 Small Business Innovation Research (SBIR) Phase II Release 1: Multi-Functional Catalyst Support	Minette Ocampo	pH Matter, LLC
FC176	Fiscal Year 2017 Small Business Innovation Research (SBIR) Phase II Release 1: Novel Hydrocarbon Ionomers for Durable Polymer Electrolyte Membranes	William Harrison	Nanosonic, Inc.
FC301	Membrane Working Group	Bryan Pivovar and Yu Seung Kim	National Renewable Energy Laboratory and Los Alamos National Laboratory
FE1	Progress in Solid Oxide Fuel Cell Technology Development at FuelCell Energy	Hossein Ghezeli-Ayagh	FuelCell Energy, Inc.
FE2	Progress of National Energy Technology Laboratory Solid Oxide Fuel Cell Research Portfolio	Gregory Hackett	National Energy Technology Laboratory
FE3	Solid Oxide Fuel Cell Development at Pacific Northwest National Laboratory: Overview	Jeff Stevenson and Brian Koepfel	Pacific Northwest National Laboratory
FE4	Durability and Reliability of Materials and Components for Solid Oxide Fuel Cells	Edgar Lara-Curzio	Oak Ridge National Laboratory

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FE5	Evaluation of Cathode Evolution for Reliable Solid Oxide Fuel Cell Performance	Brian Ingram	Argonne National Laboratory
FE6	Durable, Cost-Effective, Energy-Efficient Tubular Solid Oxide Fuel Cells	Praveen Cheekatamarla	Atrex Energy, Inc.
FE7	Metal-Supported Ceria Electrolyte-Based Solid Oxide Fuel Cell Stack for Scalable, Low-Cost, High-Efficiency, and Robust Stationary Power Systems	Charles Vesely and Bal Dosanjh	Cummins Power Generation, Inc.
FE8	Advanced Solid Oxide Fuel Cell Development at Redox Power Systems	Bryan Blackburn and Sean Bishop	Redox Power Systems
FE9	Innovative, Versatile, and Cost-Effective Solid Oxide Fuel Cell Stack Concept	Nguyen Minh	University of California - San Diego
FE10	Processing of Solid Oxide Fuel Cell Anodes for Enhanced Intermediate Temperature Catalytic Activity at High Fuel Utilization	Soumendra N. Basu	Trustees of Boston University
FE11	On-Demand Designing of Internal Surface Architecture of Porous Electrodes for Dramatic Enhancement of Solid Oxide Fuel Cell Performance and Durability	Xueyan Song	West Virginia University Research Corporation
FE12	Improving Ni-Based Solid Oxide Fuel Cell Anode Resilience and Durability Through Secondary Phase Formation	Robert A. Walker	Montana State University
FE13	Modification of Solid Oxide Fuel Cell Anodes and Cathodes by ALD	Raymond J. Gorte	University of Pennsylvania
FE14	Development of Getters for the Co-capture of Airborne Trace Contaminants and Carbon Tolerant Anode for Application in Solid Oxide Fuel Cell Systems	Prabhakar Singh	University of Connecticut
FE15	A Transformational NG-Fueled Dynamic Solid Oxide Fuel Cell for Datacenter In-Rack Power	Kevin Huang	University of South Carolina
FE16	Development of High-Temperature Anode Gas Recycle Blowers for Solid Oxide Fuel Cells	Jose Luis Cordova	Mohawk Innovative Technology
FE17	New Silver-Based Alloys for Solid Oxide Fuel Cell Brazing and Circuit Patterning	Jason Nicholas	Michigan State University

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FE18	Mitigation of Chromia Poisoning in Solid Oxide Fuel Cell Cathodes	Fanglin (Frank) Chen	University of South Carolina
FE19	Development of Accelerated Test Protocols and High-Efficiency Cathodes for Solid Oxide Fuel Cells	Xiao-Dong Zhou	University of Louisiana at Lafayette
FE20	Cathode Cleaning for Chromium Poisoning Recovery	Uday Pal	Trustees of Boston University
FE21	Highly Active and Durable Cathodes for Solid Oxide Fuel Cells	Meilin Liu	Georgia Tech Research Corporation
FE22	Operating Stresses and Their Effects on Degradation of Lanthanum Strontium Manganite (LSM)-Based Solid Oxide Fuel Cell Cathodes	Mark DeGuire	Case Western Reserve University
FE23	Synthesis of Novel Cathode Hetero-Structures for Solid Oxide Fuel Cells	Srikanth Gopalan	Trustees of Boston University
FE24	Development and Validation of Low-Cost, Highly Durable, Spinel-Based Contact Materials for Solid Oxide Fuel Cell Cathode-Side Contact Application	Jiahong Zhu	Tennessee Technological University
FE25	Minimizing Cr Evaporation from Balance-of-Plant Components by Utilizing Cost-Effective Alumina-Forming Austenitic Steels	Xingbo Liu	West Virginia University Research Corporation
FE26	Probing Temperature Profiles in a Solid Oxide Fuel Cell During its Operation with 5 mm Spatial Resolution and its Implication for Optimization	Kevin Chen	University of Pittsburgh
FE27	Multi-Gas Sensors for Enhanced Reliability of Solid Oxide Fuel Cell Operation	Radislav Potyrailo	General Electric Company
FE28	Tuning Surface Stoichiometry of Solid Oxide Fuel Cell Electrodes at the Molecular and Nano Scales for Enhanced Performance and Durability	Eric Wachsman	University of Maryland
FE29	Influence of Surface Chemistry of Fluorite-Type Cathode Materials on Oxygen Reduction Reaction	Clement Nicolett	Massachusetts Institute of Technology
FE30	Computationally Guided Design of MULTIPLE Impurities Tolerant Electrode	Yu Zhong	Worcester Polytechnic Institute

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FE050	Electrogenerative Reactors for Process Intensified Cogeneration of Power and Liquid Fuel from Shale Gas	Wenyuan Li	West Virginia University
FE051	Operating Stresses and Their Effects on Degradation of Lanthanum Strontium Manganite (LSM)-Based Solid Oxide Fuel Cell Cathodes	Chenxin Deng	Case Western Reserve University
FE052	Overview of Metal-Supported Solid Oxide Fuel Cells and Electrolyzers	Emir Dogdibegovic	Lawrence Berkeley National Laboratory
FE053	Enhancing Oxygen Exchange Activity by Tailoring Perovskite Surfaces	Raymond Gorte	University of Pennsylvania
FE054	Recent Sealing Developments for Solid Oxide Fuel Cells	Neil Kidner	Nexceris LLC
FE055	(M, Mn or Fe) ₃ O ₄ Spinel for Advanced Electrical Conductive Layer for Solid Oxide Fuel Cell Stacks	Jung Pyung Choi	Pacific Northwest National Laboratory
FE056	Small-Scale Solid Oxide Fuel Cell Test Platform (SSTP)	Brent Kirby	Pacific Northwest National Laboratory
FE057	Composite Cathode Contact Material Development at Pacific Northwest National Laboratory: Validation in Stack Fixture Test and Effect of Strong Fibers	Yeong-Shyung Chou	Pacific Northwest National Laboratory
FE058	Cr Mitigation by Lanthanum Strontium Manganite (LSM)-Lanthanum Strontium Cobalt Ferrite (LSCF) Composite for Solid Oxide Fuel Cells	Yeong-Shyung Chou	Pacific Northwest National Laboratory
FE059	Effects of Cr Concentrations in Air on Lanthanum Strontium Manganite (LSM)/Yttria-Stabilized Zirconia (YSZ) and Lanthanum Strontium Cobalt Ferrite (LSCF) Cathode Degradation	John Hardy	Pacific Northwest National Laboratory
FE060	Investigating Sr Vapor Phase Evolution from Lanthanum Strontium Manganite (LSM)/Yttria-Stabilized Zirconia (YSZ) and Lanthanum Strontium Cobalt Ferrite (LSCF) Cathodes During and After Sintering	John Hardy	Pacific Northwest National Laboratory
FE061	Use of Reduced Order Models (ROMs) to Predict Solid Oxide Fuel Cell Stack Performance	Jie Bao	Pacific Northwest National Laboratory

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FE062	Influence of Anode Creep on the Structural Reliability of Solid Oxide Fuel Cells	Brian Koeppel	Pacific Northwest National Laboratory
FE063	Capture of Trace Airborne Impurities and Mitigation of Electrode Poisoning in Solid Oxide Fuel Cells	Junsung Hong	University of Connecticut
FE064	Carbon-Resistant High-Entropy Alloy Anode for Internal Reforming of Hydrocarbons in Solid Oxide Fuel Cells	Boxun Hu	University of Connecticut
FE065	Hydrogen-Assisted Corrosion of Stainless Steel in Dual Atmosphere Exposure Conditions	Michael Reisert and Ashish Aphale	University of Connecticut
FE066	Energetics of Carbon Deposition on Metallic Surfaces in Solid Oxide Fuel Cells	Rajesh Kumar and Boxun Hu	University of Connecticut
FE067	Progress in Electrode Engineering of Solid Oxide Fuel Cells at National Energy Technology Laboratory	Shiwoo Lee	National Energy Technology Laboratory
FE068	Quantifying the Nature and Impact of Mesoscale Heterogeneities in Solid Oxide Fuel Cell Electrodes	Paul Salvador	Carnegie Mellon University
FE069	Performance Degradation Modeling of Solid Oxide Fuel Cells using a Multiphysics Framework	Harry Abernathy	National Energy Technology Laboratory
FE070	Cation Diffusion in Bulk Tetragonal ZrO ₂ for Solid Oxide Fuel Cells: Effect of Hydrogen on Cation Transport	Yueh-Lin Lee	National Energy Technology Laboratory
FE071	Reduced-Order Model for Microstructure Evolution Simulation in Solid Oxide Fuel Cell with Dynamic Discrepancy Reduced Modeling	Yinkai Lei	National Energy Technology Laboratory
FE072	High Throughput, In-line Coating Metrology Development for Solid Oxide Fuel Cell Manufacturing	Sean Bishop	Redox Power Systems
FE073	Red-Ox Robust Ceramic Anode Supported Solid Oxide Fuel Cells	Keji Pan	Redox Power Systems
H2000	H ₂ @Scale Overview	Bryan Pivovar	National Renewable Energy Laboratory

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H2001	Scalable Electrolytic Systems for Renewable Hydrogen Production	Guido Bender	National Renewable Energy Laboratory
H2006	Membrane Electrode Assembly Manufacturing Automation Technology for the Electrochemical Compression of Hydrogen	Michael Ulsh	National Renewable Energy Laboratory
H2007	Megawatt-Scale Polymer-Electrolyte-Membrance-Based Electrolyzers for Renewable Energy System Applications	Kevin Harrison	National Renewable Energy Laboratory
H2011	Risk Analysis and Modeling to Improve Hydrogen Fuel Cell Vehicle Repair Garages	Brian Ehrhart	Sandia National Laboratories
H2013	Development, Validation, and Benchmarking of Quantitative Risk Assessment Tools for Hydrogen Refueling Stations	Alice Muna	Sandia National Laboratories
H2022	A Tool to Estimate the Benefits of Tube-Trailer Consolidation Scheme for Station Builders	Amgad Elgowainy	Argonne National Laboratory
H2026	Hybrid Electrical–Thermal Hydrogen Production Process Integrated with a Molten Salt Reactor Nuclear Power Plant	Donald Anton	Savannah River National Laboratory
H2030	Hydrogen Materials Compatibility of Low-Cost, High-Pressure, Polymer Hydrogen Dispensing Hoses	Kevin Simmons	Pacific Northwest National Laboratory
H2035	Region-Specific Merchant Hydrogen Market Assessment and Technoeconomic Assessment of Electrolytic Hydrogen Generation	Richard Boardman	Idaho National Laboratory
H2036	Validating an Electrolysis System with High Output Pressure	Sam Sprik	National Renewable Energy Laboratory
H2039	Turboexpander: Alternative Fueling Concept for Fuel Cell Electric Vehicle Fast Fill	Matthew Post	National Renewable Energy Laboratory
H2041	California Hydrogen Infrastructure Research Consortium	Jennifer Kurtz	National Renewable Energy Laboratory
H2045	Methane Pyrolysis for Base-Grown Carbon Nanotubes and CO ₂ -free Hydrogen over Transition Metal Catalysts	Robert Dagle	Pacific Northwest National Laboratory

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H2050	Holistic Fuel Cell Electric Vehicle/ Hydrogen Station Optimization Model	Michael Peters	National Renewable Energy Laboratory
H2052	Merchant Hydrogen at Scale: A Technical– Economic Case Study of the Potential for Nuclear Hydrogen Production	Richard Boardman	Idaho National Laboratory
H2053	Hydrogen Safety Panel Evaluation of Hydrogen Facilities	Nick Barilo	Pacific Northwest National Laboratory
H2056	Hydrogen Safety Outreach to Expedite Hydrogen Fueling and Energy Project Deployment and Promote Public Acceptance for Zero-Emission Vehicles and Reliable Distributed Power Generation	Nick Barilo	Pacific Northwest National Laboratory
IA003	Overview of Hydrogen and Fuel Cells Research and Development for Navy Undersea Applications	Christian Schumacher	Naval Undersea Warfare Center
IA004	Fuel Cells for Long Endurance Unmanned Aerial Systems	Thomas Howell	Air Force Research Laboratory
IA005	Aluminum Hydride Title III Project	Shailesh Shah	U.S. Army Communications, Electronics Research, Development and Engineering Center
IA006	Army Ground Vehicle Systems Center Fuel Cell Update	Kevin Centeck	U.S. Army Combat Capabilities Development Command
IA007	Transit Research and Hydrogen Fuel Cells	Sean Ricketson	U.S. Department of Transportation
IA008	Federal Railroad Administration Hydrogen and Fuel Cell Research	Melissa Shurland	U.S. Department of Transportation
IA010	Heavy-Duty Technology Advancement: Interagency Collaboration for Public Health	John Mikulin	U.S. Environmental Protection Agency
IA011	NASA Fuel Cell and Hydrogen Activities	Ian Jakupca	NASA Glenn Research Center
IA012	Interagency Collaboration: FAST Act Section 1413 – Alternative Fuels Corridor Designations	Michael Scarpino	U.S. Department of Transportation, Volpe Center

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IA015	Distributed Low-Energy Wastewater Treatment (D-LEWT) for Fuel Generation and Water Reuse	Aaron Petri and Tapan Patel	U.S. Army Corps of Engineers, Engineer Research and Development Center, Construction Engineering Research Laboratory
IA016	Neutron Imaging Study of the Water Transport in Operating Fuel Cells	David Jacobson	National Institute of Standards and Technology
IA017	Fuel Cell Boats in Marine Sanctuaries	Dana Wilkes	U.S. Department of Commerce, National Oceanic and Atmospheric Administration
IA018	Fundamental Science Underpinning Hydrogen and Fuel Cells	John Vetrano	U.S. Department of Energy, Office of Basic Energy Sciences
IA019	Catalytic Conversion of Natural Gas to Form Hydrogen and Solid Carbon	Ranjani Siriwardane and Christopher Matranga	National Energy Technology Laboratory
IA020	HydroGEN/National Science Foundation Designing Materials to Revolutionize and Engineer our Future (DMREF) Program: Blueprint for Photocatalytic Water Splitting – Mapping Multidimensional Compositional Space to Simultaneously Optimize Thermodynamics and Kinetics	L Piper	Binghamton University
IA021	HydroGEN/National Science Foundation Designing Materials to Revolutionize and Engineer our Future (DMREF) Program: High-Temperature Defects: Linking Solar Thermochemical and Thermoelectric Materials	Eric Toberer	Colorado School of Mines
IA022	HydroGEN/National Science Foundation Designing Materials to Revolutionize and Engineer our Future (DMREF) Program: Membrane Databases – New Schema and Dissemination	Michael Hickner	Pennsylvania State University
IA023	HydroGEN/National Science Foundation Designing Materials to Revolutionize and Engineer our Future (DMREF) Program: Experimental Validation of Designed Photocatalysts for Solar Water Splitting	Ismaila Dabo	Pennsylvania State University
IA024	U.S. Department of Energy, Office of Nuclear Energy – Hydrogen and Fuel Cell Activities	Richard Boardman	Idaho National Laboratory/ U.S. Department of Energy, Office of Nuclear Energy

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IA025	Hydrogen and Fuel Cell Activities in Hawaii	Dave Molinaro	Hawaii Center for Advanced Transportation Technologies
IA026	The Fuel Cell Corridor – Global Center of the Fuel Cell Industry	Pat Valente	Ohio Fuel Cell Coalition
IA027	Hydrogen and Fuel Cell Activities in California	Andrew Martinez and Leslie Goodbody	California Air Resources Board
IA028	Hydrogen and Fuel Cell Activities in Colorado	Mahesh Albuquerque	Colorado Division of Oil & Public Safety
IA029	Northeast Hydrogen Fuel Cell Activity Review 2019	Charlie Myers	Massachusetts Hydrogen Coalition
IN003	Hydrogen Compression Application of the Linear Motor Reciprocating Compressor (LMRC)	Eugene Broerman	Southwest Research Institute
IN013	Dispenser Reliability Research and Development: Materials Compatibility	Nalini Menon	Sandia National Laboratories
P038	Biomass to Hydrogen (B2H2)	Pin-Ching Maness	National Renewable Energy Laboratory
P129	Novel Hybrid Microbial Electrochemical System for Efficient Hydrogen Generation from Biomass	Hong Liu	Oregon State University
P148A	HydroGEN: Low-Temperature Electrolysis	Guido Bender	National Renewable Energy Laboratory
P148B	HydroGEN: High-Temperature Electrolysis	Richard Boardman	Idaho National Laboratory
P148C	HydroGEN: Photoelectrochemical Hydrogen Production	Adam Weber	Lawrence Berkeley National Laboratory
P148D	HydroGEN: Solar Thermochemical Hydrogen Production	Anthony McDaniel	Sandia National Laboratories

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P148E	Low- and High-Temperature Electrolysis, Photoelectrochemical and Solar Thermochemical Water-Splitting Materials Characterization and Development at Lawrence Berkeley National Laboratory under the HydroGEN Consortium	Nemanja Danilovic	Lawrence Berkeley National Laboratory
P148F	CuGa ₃ Se ₅ /Zn _{1-x} Mg _x O Photocathodes for Photoelectrochemical Water Splitting	Imran Khan	Lawrence Berkeley National Laboratory
P148G	Linking Low-Temperature Electrolysis/Hybrid Materials to Electrode Properties to Performance	Guido Bender	National Renewable Energy Laboratory
P148H	HydroGEN Photoelectrochemical Supernode—Emergent Degradation Mechanisms with Integration and Scale-Up of Photoelectrochemical Devices	James Young	National Renewable Energy Laboratory
P148I	Chalcopyrite Alloy Materials for Photoelectrochemical Hydrogen Production—Development of Theoretical Synthesis Support System for HydroGEN	Tadashi Ogitsu	Lawrence Livermore National Laboratory
P148J	Photoelectrochemical and Low-Temperature Water-Splitting Materials Research at Lawrence Livermore National Laboratory Under HydroGEN Consortium	Tadashi Ogitsu	Lawrence Livermore National Laboratory
P148K	Design, Synthesis, and Characterization of High-Quality Solar Thermochemical for Hydrogen Production Materials	Robert Bell	National Renewable Energy Laboratory
P148L	Developing an Atomistic Understanding of the Layered Perovskite Ba ₄ CeMn ₃ O ₁₂ and its Polytypes for Thermochemical Water Splitting – A HydroGEN Supernode	Anthony McDaniel	Sandia National Laboratories
P148M	High-Temperature Electrolysis Capabilities at Pacific Northwest National Laboratory: Materials Development, Cell/Stack Manufacturing, Testing, Characterization, and Modeling	Olga Marina	Pacific Northwest National Laboratory
P148N	Advancements in High-Temperature Proton-Conducting Electrolyzer Materials	Dong Ding	Idaho National Laboratory
P151	New Approaches to Improved Polymer Electrolyte Membrane Electrolyzer Ion Exchange Membranes	Earl Wagener	Tetramer Technologies LLC
P179	BioHydrogen (BioH ₂) Consortium to Advance Fermentative Hydrogen Production	Pin-Ching Maness	National Renewable Energy Laboratory

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P180	Viability Study for Bipolar Membrane Electrode Assembly (BPMEA) Water Splitting	Hoon Chung	Los Alamos National Laboratory
P181	Active and Stable Electrocatalyst Supports and Microporous Layers for Anode Applications in Polymer Electrolyte Membrane Electrolyzers	Nem Danilovic	Lawrence Berkeley National Laboratory
ST008	Hydrogen Storage System Modeling: Public Access, Maintenance, and Enhancements	Matt Thornton	National Renewable Energy Laboratory
ST128a	Hydrogen Materials—Advanced Research Consortium (HyMARC) Research Efforts on Nanoscale Metal Hydrides at Sandia National Laboratories	Vitalie Stavila	Sandia National Laboratories
ST129a	Multiscale Modeling of Interface Kinetics within the Hydrogen Materials—Advanced Research Consortium (HyMARC)	Tae Wook Heo	Lawrence Livermore National Laboratory
ST135	Hydrogen Materials—Advanced Research Consortium (HyMARC): Technical Activities at the National Institute of Standards and Technology	Thomas Gennett	National Renewable Energy Laboratory
ST138	Hydrogen Materials—Advanced Research Consortium (HyMARC) Seedling: Development of Magnesium Boride Etherates as Hydrogen Storage Materials	Godwin Severa	University of Hawaii
ST140	Emergency Hydrogen Refueler for Individual Consumer Fuel Cell Vehicles	Michael Kimble	Skyhaven Systems
ST200	Materials for Cryogenic Hydrogen Storage Technologies	Kevin Simmons	Pacific Northwest National Laboratory
ST201	Hydrogen Materials—Advanced Research Consortium (HyMARC): Technical Activities at SLAC	Nick Strange	National Renewable Energy Laboratory
TA004	Continuous Fiber Composite Electrofusion Coupler	Brett Kimball	Automated Dynamics
TA025	Laser Three-Dimensional Printing of Highly Compacted Protonic Ceramic Electrolyzer Stack	Jianhua "Joshua" Tong	Clemson University
TA026	Low-Cost, High-Performance Catalyst Coated Membranes for Polymer Electrolyte Membrane Water Electrolyzers	Andrew Steinbach	3M Company

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TA027	Catalyst Layer Design, Manufacturing, and In-Line Quality Control	Radenka Maric	University of Connecticut