Appendix D. List of Projects Presented but Not Reviewed

Project ID	Project Title	Principal Investigator Name	Organization
AMMTO-000	AMMTO – Office Mission and Activities Relevant to Hydrogen Production, Distribution, and Use	Paul Syers	Advanced Materials and Manufacturing Technologies Office
AMMTO-001	The Lab Embedded Entrepreneurship Program – Connecting Exciting Clean Energy Startups to the National Labs	Paul Syers	Advanced Materials and Manufacturing Technologies Office
ARPAE-000	Geologic Hydrogen – A New Primary Energy Source for the Transition to Clean Energy	Doug Wicks	Advanced Research Projects Agency–Energy
BES-000	Hydrogen-Related Fundamental Research in the DOE Office of Basic Energy Sciences	John Vetrano	Office of Basic Energy Sciences
BES-001	DOE Energy Earthshot Research Center: Ionomer-Based Water Electrolysis	Adam Weber	Lawrence Berkeley National Laboratory
BES-002	DOE Energy Earthshot Research Center: Plasma-Enhanced Hydrogen Production	Yiguang Ju	Princeton University
BETO-000	Clean Fuels and Products Shot	Jay Fitzgerald	Bioenergy Technologies Office
EIA-000	U.S. Energy Information Administration Manufacturing Energy Consumption Survey and Hydrogen Data Reporting	Faouzi Aloulou	U.S. Energy Information Administration
EJE-000	Empowering Equity: Energy Justice and DOE's Environmental Justice Strategic Plan	Kelly Crawford	Office of Energy Justice and Equity
EJE-001	Empowering Equity: Energy Justice and DOE's Environmental Justice Strategic Plan	Kelly Crawford	Office of Energy Justice and Equity
ELY-BIL-002	Ultra-Low Iridium Catalysts with Controlled Morphology and Speciation	Jacob Spendelow	Los Alamos National Laboratory
ELY-BIL-003	Accelerated Discovery of Metallic Pyrochlores Oxygen Evolution Reaction Catalysts for Proton Exchange Membrane Water Electrolyzers: High-Throughput Computational and Experimental Approach	Ahmed Farghaly	Argonne National Laboratory
ELY-BIL-004	Hierarchical Electrode Design for Highly Efficient and Stable Anion Exchange Membrane Water Electrolyzers	Xiong Peng	Lawrence Berkeley National Laboratory
ELY-BIL-005	Studying Polymers On a Chip (SPOC): Increased Alkaline Stability in Anion Exchange Membranes	Johanna Schwartz	Lawrence Livermore National Laboratory

Project ID	Project Title	Principal Investigator Name	Organization
ELY-BIL-006	Hierarchically Structured Advanced Electrodes for Alkaline Water Electrolyzers	Jun Yang	Oak Ridge National Laboratory
ELY-BIL-007	Thin, Highly Selective Polymer Membrane Separators for Advanced Liquid Alkaline Water Electrolysis	Abhishek Roy	National Renewable Energy Laboratory
ELY-BIL-008	Advanced Hydrocarbon Based-Proton Exchange Membrane Water Electrolyzers	Cy Fujimoto	Sandia National Laboratories
ELY-BIL-009	High-Performance and Robust Proton-Conducting Solid Oxide Electrolysis Cells Enabled by New Materials, Interfaces, and Fabrication Methods	Dong Ding	Idaho National Laboratory
ELY-BIL-010	Directed Search for Stable and Conductive Electrolytes for Next-Generation Proton-Conducting Solid Oxide Electrolysis Cells	Joel Varley	Lawrence Livermore National Laboratory
ELY-BIL-011	Stable High-Performing Oxygen Electrode for Solid Oxide Electrolyzer Cells Operating at Lower Temperatures	Olga Marina	Pacific Northwest National Laboratory
ELY-BIL-012	Developing High-Entropy Materials as Superior Alternative Electrodes for Long-Lasting Oxide-Conducting Solid Oxide Electrolysis Cells	Nicholas Strange	SLAC National Accelerator Laboratory
FC-000	Fuel Cell Technologies Subprogram Overview	Dimitrios Papageorgopoulos	Hydrogen and Fuel Cell Technologies Office
FC-167	Fiscal Year 2022 Small Business Innovation Research IIC: Multi-Functional Catalyst Support	Minette Ocampo	pH Matter, LLC
FC-327	Durable High-Power Density Fuel Cell Cathodes for Heavy-Duty Vehicles	Shawn Litster	Carnegie Mellon University
FC-330	High-Efficiency Reversible Solid Oxide System	Hossein Ghezel-Ayagh	FuelCell Energy, Inc.
FC-331	A Novel Stack Approach to Enable High Round-Trip Efficiencies in Unitized Proton Exchange Membrane Regenerative Fuel Cells	Katherine Ayers	Nel Hydrogen
FC-355	Los Alamos National Laboratory Minority-Serving Institution Program	Tommy Rockward	Los Alamos National Laboratory
FC-356	Fiscal Year 2022 Small Business Innovation Research II: Durable High-Efficiency Membrane and Electrode Assemblies for Heavy-Duty Fuel Cell Vehicles	Natalia Macauley	Giner, Inc.
FC-362	Fiscal Year 2023 Small Business Technology Transfer II: Mobile Fuel Cell Generator	Paul Scott	RockeTruck, Inc.

Project ID	Project Title	Principal Investigator Name	Organization
FC-364	Fiscal Year 2023 Small Business Innovation Research I: Compact and Low-Cost Thermal Management for Heavy-Duty Vehicle Fuel Cells	John Kelly	Altex Technologies Corporation
FC-365	Fiscal Year 2023 Small Business Innovation Research I: Advanced Thermal Management System for Heavy-Duty Hydrogen Fuel Cell Stacks	Ramy Abdelmaksoud	Advanced Cooling Technologies, Inc.
FC-366	Fiscal Year 2023 Small Business Innovation Research I: High-Effectiveness Heat Exchangers for Proton Exchange Membrane Fuel Cell Thermal Management	Daniel Murphy	Mainstream Engineering Corporation
FC-367	Techno-Economic Analysis of Discrete and Unitized Reversible Fuel Cells for Energy Storage Applications	Evan Reznicek	National Renewable Energy Laboratory
FC-368	Surface Protected High-Activity Platinum Alloy Catalysts for Durable Heavy-Duty Fuel Cells	Nagappan Ramaswamy	General Motors LLC
FC-369	Designing Highly Durable Ternary PtCoM Intermetallic Catalysts on Advanced Support for Heavy-Duty Membrane Electrode Assemblies	Gang Wu	State University of New York (SUNY) Buffalo
FC-370	Advanced Low-Platinum-Group-Metal Cathode Catalysts with Self-Healing Properties for High-Performing and Highly Durable Membrane Electrode Assemblies	Voya Stamenkovic	University of California, Irvine
FC-371	Selective Transport Layers for Durable, Low-Cost Membrane Electrode Assemblies	Anu Kongkanand	General Motors LLC
FC-372	High-Performance Hydrocarbon Membrane	Rob Darling	Raytheon Technologies Research Center
FC-373	High-Performing and Durable Membrane Electrode Assemblies with Novel Electrode Structures and Hydrocarbon Proton Exchange Membranes	Yunfeng Zhai	University of Hawai‘i at Mānoa
FC-374	Integrated Approaches for Enhanced Transport and Reaction in Unitized Reversible Fuel Cells	Jacob Spendelow	Los Alamos National Laboratory
FE-000	Office of Fossil Energy and Carbon Management Hydrogen Technologies Program Overview	Evan Frye and Eva Rodezno	Office of Fossil Energy and Carbon Management
FE-001	Recent Progress on Underground Hydrogen Storage by the SHASTA Team (Subsurface Hydrogen Assessment, Storage, and Technology Acceleration)	Angela Goodman	National Energy Technology Laboratory
FE-002	Fluidized Bed Gasification for Conversion of Biomass and Waste Materials to Renewable Hydrogen	Zach El Zahab	GTI Energy

Project ID	Project Title	Principal Investigator Name	Organization
FE-003	Hydrogen Production from High-Volume Organic Construction and Demolition Wastes	Joshua Stanislowski	Energy and Environmental Research Center
FE-004	Advancing Entrained-Flow Gasification of Waste Materials and Biomass for Hydrogen Production	Kevin Whitty	University of Utah
FE-005	Overview of National Energy Technology Laboratory Gasification Research and Development for Hydrogen Production	Eric Lewis	National Energy Technology Laboratory
FE-006	Low-Cost Large-Area Solid Oxide Electrolyzer Cell Stack for Hydrogen and Chemicals Production	Olga Marina	Pacific Northwest National Laboratory
FE-007	Development of Stable Solid Oxide Electrolysis Cells for Low-Cost Hydrogen Production	Elango Elangovan	OxEon Energy
FE-008	Solid Oxide Fuel Cells – Cell and Stack Degradation Evaluation and Modeling	Harry Abernathy	National Energy Technology Laboratory
FE-009	Reversible Solid Oxide Fuel Cell and Solid Oxide Electrolysis Cell Stacks Based on Stable Rare Earth Nickelate Oxygen Electrodes	John Pietras	Saint-Gobain
FE-010	Advanced Process Control and Dynamic Optimization of Reversible Solid Oxide Cell Systems for Performance and Long-Term Health	Debangsu Bhattacharyya	West Virginia University
FE-011	Investigation of Ammonia for Combustion Turbines	Andrew O'Connell	National Energy Technology Laboratory
FE-013	Conceptual Design of Integrated Energy Systems via Multiscale Market Simulations and Surrogate Models for Market Interactions	John Siirola	Sandia National Laboratories
FE-014	National Energy Technology Laboratory Research and Innovation Center: Hydrogen Sensors for Pipelines and Underground Hydrogen Storage Portfolio Overview	Ruishu Wright	National Energy Technology Laboratory
FE-014a	Real-Time Sensor Technologies for Hydrogen Subsurface Storage and Transportation Monitoring	Ruishu Wright	National Energy Technology Laboratory
FE-015	Enabling the Hydrogen Value Chain Using Natural Gas Resources and Infrastructure	Daniel Haynes	National Energy Technology Laboratory
FE-016	Process Intensification of Hydrogen Production through Sorption-Enhanced Gasification of Biomass	Kevin Whitty	University of Utah
HFTO-001	Hydrogen and Fuel Cell Technologies Office Post-Doc Award Competition Celebrates Five Years of Success!	Haboon Osmond and Christina Walls	Hydrogen and Fuel Cell Technologies Office

Project ID	Project Title	Principal Investigator Name	Organization
HFTO-002	Community Benefit Plans and You!	Natalie Alvarado and Rebecca Erwin	Hydrogen and Fuel Cell Technologies Office
IA-001	U.S. Department of Energy Hydrogen and Fuel Cell Technologies Office Overview	Sunita Satyapal	Hydrogen and Fuel Cell Technologies Office
IA-002a	Hydrogen Interagency Task Force Working Group Panel Infrastructure, Siting, and Permitting	Kandilarya Barakat, Mary McDaniel, and Laura Hill	Hydrogen Interagency Task Force Infrastructure, Siting, and Permitting Working Group
IA-002b	Hydrogen Interagency Task Force Working Group Panel Supply and Demand at Scale	Oliver Fritz and Benjamin Gould	Hydrogen Interagency Task Force Supply and Demand at Scale Working Group
IA-002c	Hydrogen Interagency Task Force Working Group Panel Analysis and Global Competitiveness	Neha Rustagi, Maureen Clapper, and Stephanie Grumet	Hydrogen Interagency Task Force Analysis and Global Competitiveness Working Group
IA-002d	Hydrogen Interagency Taskforce Working Group Panel Workforce, Equity, and Justice	Sara Wylie and Emily Loker	Hydrogen Interagency Task Force Workforce, Equity, and Justice Working Group
IA-003a	U.S. Department of Defense Panel U.S. Office of the Secretary of Defense	Tim Tetreault	U.S. Office of the Secretary of Defense
IA-003b	U.S. Department of Defense Panel Army	Kevin Centeck	U.S. Army
IA-003c	U.S. Department of Defense Panel Navy	Matthew Haupt	U.S. Navy
IA-003d	U.S. Department of Defense Panel Air Force	Richard Hartman	U.S. Air Force
IA-004	Hydrogen Hubs Update	Crystal Farmer	Office of Clean Energy Demonstrations
IA-005	Alternative Fuel Corridors	Rachael Nealer	Joint Office of Energy and Transportation
IA-006	Clean Ports Program	Harold Rickenbacker	U.S. Environmental Protection Agency
IA-007	Microgrid and Energy Storage Research and Development	David Cook	U.S. Navy

Project ID	Project Title	Principal Investigator Name	Organization
IA-008	Army Ground Vehicle Fuel Cell Program	Kevin Centeck	U.S. Army Combat Capabilities Development Command, Ground Vehicle Systems Center
IA-009	H2Charge	Kari Walker and Michael Bearman	U.S. Army Combat Capabilities Development Command, Ground Vehicle Systems Center, and General Motors
IA-010	Green Proving Ground	Joshua Banis	General Services Administration
IA-011	Fuel Cell Rural Energy For America Program (REAP) Awards	Chris Cassidy	U.S. Department of Agriculture
IA-012	NASA Fuel Cell and Hydrogen Activities	Ian Jakupca	NASA Glenn Research Center
IA-013	Hydrogen Biogeochemical Cycle: Implications for Hydrogen Climate Impact	Fabien Paulot	National Oceanic and Atmospheric Administration
IA-014	Hydrogen Interagency Task Force Workforce and Energy Justice Activities	Workforce and Energy Justice Crosscutting Team	Hydrogen Interagency Task Force
IEDO-000	Industrial Decarbonization Pathways	Joe Cresko	Industrial Efficiency and Decarbonization Office
IN-000	Hydrogen Infrastructure Technologies Subprogram Overview	Ned Stetson	Hydrogen and Fuel Cell Technologies Office
IN-016	Free-Piston Expander for Hydrogen Cooling	Devin Halliday	Gas Technology Institute
IN-021	Microstructural Engineering and Accelerated Test Method Development to Achieve Low-Cost, High-Performance Solutions for Hydrogen Storage and Delivery	Kip Findley	Colorado School of Mines
IN-029	Reducing the Cost of Fatigue Crack Growth Testing for Storage Vessel Steels in Hydrogen Gas	Kevin Nibur	Hy-Performance
IN-045	Scalable, Low-Cost Hydrogen Delivery Systems	Colin Wolden	Colorado School of Mines
IN-048	Chemical Hydrogen Storage Media with Value-Added Co-Products	Travis Williams	University of Southern California

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IN-049	Highly Active Hexagonal Boron Nitride Catalysts for the Dehydrogenation of Liquid Organic Hydrogen Carriers	Sheng Dai	University of Tennessee, Knoxville
IN-050	Efficient Ammonia Decomposition Using Platinum-Group-Metal-Free High-Entropy Alloy Catalysts	Chao Wang	Johns Hopkins University
IN-053	Solid-State-Based Hydrogen Loss Recovery During Liquid Hydrogen Transfer	Thomas Gennett	Colorado School of Mines
INTRA-001	Clean Hydrogen Technology Alignment Cooperative (CHyTAC)	Adam Weber	Lawrence Berkeley National Laboratory
INTRA-002	Equitable, Affordable, and Resilient Nationwide Energy System Transition (EARNEST)	Inês Azevedo	Stanford University
INTRA-003	Power electronics Accelerator Consortium for Electrification (PACE)	Madhu Chinthavali	Oak Ridge National Laboratory
INTRA-004	The Status and Impact of the U.S. Department of Energy's Energy Materials Network on Hydrogen Technology	Michael Rawlings	The Minerals, Metals, and Materials Society (TMS)
JO-000	Joint Office Update for the Hydrogen and Fuel Cell Technologies Office Annual Merit Review	Rachel Nealer	Joint Office of Energy and Transportation
MESC-000	From Analysis to Pipeline: Fueling the U.S. Hydrogen Manufacturing and Supply Chains	Jesús Alvelo Maurosa	Office of Manufacturing and Energy Supply Chains
MESC-001	Supercharging Critical Hydrogen Supply Chains with the Modeling, Mapping, and Analysis Consortium (MMAC)	Amy Snelling	National Renewable Energy Laboratory
MNF-BIL-002	Fuel Cell and Electrolyzer Manufacturing and Recycling Analysis	Jeffrey Spangenberger	Argonne National Laboratory
MNF-BIL-003	Fiscal Year 2023 Small Business Innovation Research I: 11a Sustainable Recovery of Fuel Cell and Electrolyzer Materials	Chris Topping	Tetramer Technologies, L.L.C.
MNF-BIL-004	Fiscal Year 2023 Small Business Innovation Research I: Development of Second-Use Applications for Ionomer Materials Recovered from Hydrogen Economy Systems	Stephen Grot	Ion Power, Inc.
MNF-BIL-005	Fiscal Year 2023 Small Business Innovation Research I: Modification of Nafion® Thermoplastic Precursor to Enable Reprocessing of Fuel Cell Manufacturing Scraps	Yinghua Alice Jin	Rockytech, Ltd.

Project ID	Project Title	Principal Investigator Name	Organization
MNF-BIL-006	Fiscal Year 2023 Small Business Innovation Research I: Sustainable Recovery of Critical Materials from End-of-Life Fuel Cells/Electrolyzers	Andrew Moran	Faraday Technology, Inc.
MNF-BIL-007	Fiscal Year 2023 Small Business Innovation Research I: Precious Metal Recovery and Recycling for Fuel Cells and Electrolyzers at End of Life	Philip Stuckey	FC Renew
MNF-BIL-008	Fiscal Year 2023 Small Business Innovation Research I: Amphiphilic Titanium Porous Transport Layers for Highly Effective Low-Temperature Reversible Fuel Cell	Tianyu Zhang	Giner, Inc.
MNF-BIL-009	Fiscal Year 2023 Small Business Innovation Research I: High-Throughput Discovery and Development of Bifunctional and Stable Reversible Fuel Cell Catalysts	Jordan Swisher	Mattiq, Inc.
MNF-BIL-010	Fiscal Year 2023 Small Business Innovation Research I: High-Resolution/High-Precision Proton Exchange Membrane Quality Control	Hans Courrier	Resonon, Inc.
MNF-BIL-011	Fiscal Year 2023 Small Business Innovation Research I: In-Line Monitoring System for Membrane and Electrode Assembly Manufacturing	Michael Kimble	SkyVision Sciences, LLC
MNF-BIL-012	Fiscal Year 2023 Small Business Innovation Research I: In-Line Quality Control with Terahertz Scanners for High-Throughput Production of Low-Temperature Fuel Cells and Electrolyzer Membrane Electrode Assemblies	Nezih Yardimci	Lookin, Inc.
MNF-BIL-013	Fiscal Year 2023 Small Business Innovation Research I: Power Electronics Manufacturing Improvements for Heavy-Duty Fuel Cell Vehicle Applications	Ian Byers	Marel Power Solution, Inc.
MNF-BIL-014	Fiscal Year 2023 Small Business Innovation Research I: Fuel Cell Integrated Power Electronics Module (FCIPEM)	Paul Scott	RockeTruck, Inc.
MNF-BIL-015	Fiscal Year 2023 Small Business Innovation Research I: Bipolar Plate Manufacturing and Reconditioning Using Next-Generation IMPULSE® High-Power Impulse Magnetron Sputtering (HiPIMS) Etching, Surface Preparation, and Pinhole-Free Deposition of Corrosion-Resistant, Low-Interfacial-Contact-Resistance Coatings	Brian Jurczyk	Starfire Industries LLC
MNF-BIL-016	Fiscal Year 2023 Small Business Innovation Research I: Conformal Corrosion-Resistant Coatings for Fuel Cell Bipolar Plates by Atomic Layer Deposition	Katherine Hansen	Radiation Monitoring Devices, Inc.
MNF-BIL-017	Fiscal Year 2023 Small Business Innovation Research I: Low-Cost Metal Bipolar Plate Carbon Coating Technology for Heavy-Duty Fuel Cells	CH Wang	TreadStone Technologies, Inc.
MNF-BIL-018	Fiscal Year 2023 Small Business Innovation Research I: Low-Cost, High-Volume Durable Coating Method for Bipolar Plates	Mruthunjaya Uddi	Advanced Cooling Technologies, Inc.

Project ID	Project Title	Principal Investigator Name	Organization
MNF-BIL-019	Fiscal Year 2023 Small Business Innovation Research I: Solution-Based Nanostructured Carbon Coatings for Reusable, Corrosion-Resistant, Stamped Metallic Bipolar Plates	Ramesh Sivarajan	Nano-C, Inc.
MNF-BIL-020	Fiscal Year 2023 Small Business Innovation Research I: Highly Conductive Hydrocarbon Membranes for Fuel Cells and Electrolyzers	Dana Kazerooni	Celadyne Technologies, Inc.
NE-000	Nuclear-Based Hydrogen for Refineries and E-Fuels	Jason Marcinkoski	Idaho National Laboratory
NE-001	Light Water Reactor Integrated Energy Systems Interface Technology Development and Demonstration	Tonia Hatcher	Vistra Corp.
OCED-001	Alliance for Renewable Clean Hydrogen Energy Systems (ARCHES)	Angelina Galiteva, Scott Brandt, and Adam Weber	Alliance for Renewable Clean Hydrogen Energy Systems
OCED-002	Pacific Northwest Hydrogen Hub: Decarbonizing Hard-to-Abate Sectors While Building Stronger Communities in the Pacific Northwest	Chris Green	Pacific Northwest Hydrogen Hub
OCED-003	The Midwest Alliance for Clean Hydrogen (MachH2) Overview and Opportunities	Neil Banwart	Midwest Alliance for Clean Hydrogen
OCED-004	Heartland Hydrogen Hub	Chad Wocken	Heartland Hydrogen Hub
OCED-005	Appalachian Regional Clean Hydrogen Hub	Shawn Bennett	Appalachian Regional Clean Hydrogen Hub
OCED-006	Mid-Atlantic Clean Hydrogen Hub	Joe Colella	Mid-Atlantic Clean Hydrogen Hub
OCED-007	HyVelocity – Gulf Coast Regional H2Hub	Ted Barnes	HyVelocity – Gulf Coast Regional H2Hub
OTT-000	Clean Hydrogen Liftoff Enabling Programs – Bipartisan Infrastructure Law Technology Commercialization Fund	Kyle Fricker and Emanuele Pecora	Office of Technology Transitions and Office of Clean Energy Demonstrations
P-000	Hydrogen Production Technologies Subprogram Overview	David Peterson	Hydrogen and Fuel Cell Technologies Office
P-148A	HydroGEN: Low-Temperature Electrolysis	Shaun Alia	National Renewable Energy Laboratory
P-148B	HydroGEN: High-Temperature Electrolysis	Dong Ding	Idaho National Laboratory

Project ID	Project Title	Principal Investigator Name	Organization
P-148C	HydroGEN: Photoelectrochemical Water Splitting	Joel Ager	Lawrence Berkeley National Laboratory
P-148D	HydroGEN: Solar Thermochemical Hydrogen Water Splitting	Anthony McDaniel	Sandia National Laboratories
P-148E	HydroGEN: Cross-Cut Modeling	Tadashi Ogitsu	Lawrence Livermore National Laboratory
P-154	Thin-Film, Metal-Supported High-Performance and Durable Proton-Solid Oxide Electrolyzer Cell	Tianli Zhu	Raytheon Technologies Research Center
P-176	Development of Durable Materials for Cost-Effective Advanced Water Splitting Utilizing All-Ceramic Solid Oxide Electrolyzer Stack Technology	John Pietras	Saint-Gobain
P-183	Extremely Durable Concrete Using Methane Decarbonization Nanofiber Co-Products with Hydrogen	Alan Weimer	University of Colorado, Boulder
P-184	Scalable and Highly Efficient Microbial Electrochemical Reactor for Hydrogen Generation from Lignocellulosic Biomass and Waste	Hong Liu	Oregon State University
P-196a	Hydrogen from Next-generation Electrolyzers of Water (H2NEW) Low-Temperature Electrolysis: Durability and Accelerated Stress Test Development	Rangachary Mukundan	Lawrence Berkeley National Laboratory
P-196b	Hydrogen from Next-generation Electrolyzers of Water (H2NEW) Low-Temperature Electrolysis: Benchmarking and Performance	Deborah Myers	Argonne National Laboratory
P-196c	Hydrogen from Next-generation Electrolyzers of Water (H2NEW) Low-Temperature Electrolysis: Manufacturing, Scale-Up, and Integration	Scott Mauger	National Renewable Energy Laboratory
P-196d	Hydrogen from Next-generation Electrolyzers of Water (H2NEW) Low-Temperature Electrolysis: System and Techno-Economic Analysis – Hydrogen from Next-Generation Electrolyzers	Alex Badgett	National Renewable Energy Laboratory
P-196e	Hydrogen from Next-generation Electrolyzers of Water (H2NEW) High-Temperature Electrolysis: Durability and Accelerated Stress Test Development	Olga Marina	Pacific Northwest National Laboratory
P-196f	Hydrogen from Next-generation Electrolyzers of Water (H2NEW) High-Temperature Electrolysis: Cell Characterization	David Ginley	National Renewable Energy Laboratory
P-196g	Hydrogen from Next-generation Electrolyzers of Water (H2NEW) High-Temperature Electrolysis: Multiscale Degradation Modeling	Brandon Wood	Lawrence Livermore National Laboratory

Project ID	Project Title	Principal Investigator Name	Organization
P-196h	Hydrogen from Next-generation Electrolyzers of Water (H2NEW) High-Temperature Electrolysis: Liquid Alkaline Water Electrolysis	Bryan Pivovar	National Renewable Energy Laboratory
P-197	Advanced Manufacturing Processes for Gigawatt-Scale Proton Exchange Membrane Water Electrolyzers	Andrew Steinbach	3M Company
P-198	Enabling Low-Cost Proton Exchange Membrane Electrolysis at Scale Through Optimization of Transport Components and Electrode Interfaces	Chris Capuano	Nel Hydrogen
P-199	Integrated Membrane Anode Assembly and Scale-Up	Adam Paxson	Plug Power Inc.
PRA-001	Ionomer Durability in Membrane and Electrodes	Tanya Agarwal	Los Alamos National Laboratory
PRA-002	Model-Driven Engineering of Materials for Solid-Oxide Electrolysis and Solid-State Storage of Hydrogen	Andrew Rowberg	Lawrence Livermore National Laboratory
PRA-003	Approaching the Complex Composite Electrode Interface with Operando Ambient-Pressure X-ray Photoelectron Spectroscopy (AP-XPS)	Rebecca Hamlyn	Lawrence Berkeley National Laboratory
PRA-004	New Materials and Approaches for Fuel Cells and Electrolyzers	Kui Li	Los Alamos National Laboratory
SA-174	Life Cycle Analysis of Hydrogen Pathways	Amgad Elgowainy	Argonne National Laboratory
SA-190	Patent and Technology Portfolios Resulting from Hydrogen and Fuel Cell Technologies Research and Development Funding	Lindsay Steele	Pacific Northwest National Laboratory
SA-191	Hydrogen Sustainability Assessment Methods for Project Development	Jennie Huya-Kouadio	Strategic Analysis, Inc.
SA-SCS-000	Analysis, Codes and Standards Subprogram Overview	Neha Rustagi	Hydrogen and Fuel Cell Technologies Office
SCS-00a	Advancing Safety in Hydrogen Technologies: The Center for Hydrogen Safety and Hydrogen Safety Panel	Nick Barilo	Center for Hydrogen Safety
SCS-038	Real-Time Ionic Liquid Electrochemical Sensor for Highly Sensitive and Selective Hydrogen Detection and Quantification	Xiangqun Zeng	University of Missouri
SCS-039	Low-Cost Hydrogen Monitor for Continuous Quantification of Facility Emissions	Scott Herndon	Aerodyne Research, Inc.

Project ID	Project Title	Principal Investigator Name	Organization
SCS-040	Multi-Gap Fabry Perot Fiber Optic Sensor for Real-Time and Cumulative Leak Detection and Quantification	Navin Manjooran	Solve Technology and Research, Inc.
SCS-041	Commercialization of Hollow-Core Fiber Optic Hydrogen Sensor	Allan Chang	Lawrence Livermore National Laboratory
SCS-042	Hydrogen Component Reliability Database (HyCReD)	Genevieve Saur	National Renewable Energy Laboratory
SDI-000	Systems Development and Integration Subprogram Overview	Jesse Adams	Hydrogen and Fuel Cell Technologies Office
SDI-004	Hydrogen Coach Bus Fueling Demonstration	Richard Boardman	Idaho National Laboratory
SDI-008	Hydrogen–Electric Smelting Reduction for Green Iron and Steel Production	Laureen Meroueh	Hertha Metals, Inc.
SDI-009	Demonstration of a Solid Oxide Electrolyzer Cell Hydrogen Direct Reduction at the Toledo, Ohio, Steel Plant	Luca Mastropasqua	University of Wisconsin–Madison
SDI-010	Scaled Solid Oxide Co-Electrolysis for Low-Cost Syngas Synthesis from Nuclear Energy	Richard Hart	GE Research
SDI-013	Port Demand Assessment – Maritime Administration Co-Fund/Hydrogen for Maritime and Rail Fuel Cell Technologies	Leonard Klebanoff	Sandia National Laboratories
SDI-015	Low-Temperature Electrolysis Electrolyzer Data Collection	Sam Sprik	National Renewable Energy Laboratory
SDI-016	High-Rate Liquid Hydrogen Fueling for HD Rail (Hydrogen Locomotives)	Sean Kelly	Linde Engineering North America
SDI-017	High-Temperature Electrolysis Electrolyzer Data Collection	Micah Casteel	Idaho National Laboratory
SETO-000	Solar–Thermal Fuels via Concentrated Solar–Thermal Energy	Matt Bauer	Solar Energy Technologies Office
ST-008	Hydrogen Storage System Modeling: Public Access, Maintenance, and Enhancements	Sam Sprik	National Renewable Energy Laboratory
ST-135	National Institute of Standards and Technology – National Renewable Energy Laboratory Overview	Ryan Klein	National Institute of Standards and Technology

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ST-201	Hydrogen Materials Advanced Research Consortium (HyMARC)—SLAC Activities	Nicholas Strange	SLAC National Accelerator Laboratory
ST-202	Hydrogen Materials Advanced Research Consortium (HyMARC)— National Renewable Energy Laboratory Activities	Tom Gennett	National Renewable Energy Laboratory
ST-204	Hydrogen Materials Advanced Research Consortium (HyMARC)— Pacific Northwest National Laboratory Activities	Tom Autrey	Pacific Northwest National Laboratory
ST-207	Hydrogen Materials Advanced Research Consortium (HyMARC)— Lawrence Livermore National Laboratory Activities	Brandon Wood	Lawrence Livermore National Laboratory
ST-210	Hydrogen Materials Advanced Research Consortium (HyMARC) Seedling: Metal–Organic Frameworks Containing Frustrated Lewis Pairs for Hydrogen Storage at Ambient Temperature	Shengqian Ma	University of North Texas
ST-213	Hydrogen Materials Advanced Research Consortium (HyMARC) Seedling: Uniting Theory and Experiment to Deliver Flexible Metal–Organic Frameworks for Superior Methane (Natural Gas) Storage	Brian Space	North Carolina State University
ST-224	Hydrogen Materials Advanced Research Consortium (HyMARC)— Lawrence Berkeley National Laboratory Activities	Jeffrey Long	Lawrence Berkeley National Laboratory
ST-225	Hydrogen Materials Advanced Research Consortium (HyMARC)— Lawrence Berkeley National Laboratory Advanced Light Source Activities	David Prendergast	Lawrence Berkeley National Laboratory
ST-233	Hydrogen Materials Advanced Research Consortium (HyMARC)— Sandia National Laboratories Activities	Mark Allendorf	Sandia National Laboratories
ST-238	Low-Cost, High-Strength Hollow Carbon Fiber for Compressed Gas Storage Tanks	Matthew Weisenberger	University of Kentucky
ST-240	Cost-Optimized Structural Carbon Fiber for Hydrogen Storage Tanks	Amit Naskar	Oak Ridge National Laboratory
ST-245	Formic-Acid-Based Hydrogen Energy Production and Distribution System	Arun Agarwal	OCO, Inc.
ST-250	Combustion Synthesis of Nanoscale Magnesium Borides with Improved Hydrogen Uptake and Release	Evgeny Shafirovich	University of Texas at El Paso
ST-251	Developing Highly Porous Metal–Organic Frameworks and Composite Materials for Hydrogen Storage	Yangyang Liu	California State University, Los Angeles

Project ID	Project Title	Principal Investigator Name	Organization
ST-252	Onboard Monitoring Method for Detection of Damage to Carbon Fiber Composite Overwrap on Hydrogen Fuel Tanks	Joshua Biller	TDA Research
ST-253	Hydrogen Materials Advanced Research Consortium (HyMARC)— Diversity, Equity, and Inclusion Activities	Megan Lazorski	Metropolitan State University of Denver
TA-009	Maritime (Pierside Power) Fuel Cell Generator Project	Lennie Klebanoff	Sandia National Laboratories
TA-028	Demonstration of Electrolyzer Operation at a Nuclear Plant to Allow for Dynamic Participation in an Organized Electricity Market and In-House Hydrogen Supply	Uuganbayar Otgonbaatar	Exelon
TA-043	Solid Oxide Electrolyzer Cell Stack Development and Manufacturing	Olga Marina	Pacific Northwest National Laboratory
TA-051	Low Total Cost of Hydrogen by Exploiting Offshore Wind and Proton Exchange Membrane Electrolysis Synergies	Judith Lattimer	Giner, Inc.
TA-061	Optimal Wind Turbine Design for Hydrogen Production	Chris Bay	National Renewable Energy Laboratory
VTO-000	Overview of Hydrogen Combustion Activities within the Vehicle Technologies Office Decarbonization of Off-Road, Rail, Marine, and Aviation (DORMA) Program	Gurpreet Singh	Vehicle Technologies Office
WETO-000	Floating Offshore Wind Shot and Co-Generation	Jian Fu	Wind Energy Technologies Office
WPTO-000	Hydrogen Activities within the Water Power Technologies Office	Bill McShane	Water Power Technologies Office