



U.S. Department of Energy High-Temperature Electrolysis (HTE) Manufacturing Workshop

Bringing leading experts together to discuss high-temperature electrolysis manufacturing efforts and future opportunities

Organized by the DOE Hydrogen & Fuel Cell Technologies Office (HFTO) and H2NEW Consortium

March 8-9, 2022

Virtual Meeting

(Registration information forthcoming)

Day 1 - Expert Presentations			Day 2 - Parallel Discussions		
11:00 AM	Welcome		11:00 AM	Break-out Discussion Logistics	
11:15 AM	 Plenary Presentations Part I Introduction Current Status of HTE Manufacturing Technoeconomic Analysis International Perspective on Manufacturing 		11:15 AM	 Parallel Discussions Round 1 Thermal Processing QA/QC (Yield and Reproducibility) Advanced Manufacturing Methods Stack Manufacturing and System Integration 	
1:15 PM	Break		12:45 PM	Break	
2:00 PM	 Panelist Presentations Part II High-volume Stack Manufacturing Component Manufacturing 		1:15 PM	 Parallel Discussions Round 2 Scaling and Throughput Protective Coatings Supply Chain Sealing and Contacts 	
4:00 PM	Wrap-up & Adjourn		2:45 PM	Break	
			3:15 PM	Report Out	
			4:15 PM	Final Thoughts and Adjourn	

All times in Eastern Standard Time (EST) and subject to change





Day 1: Overview Presentations from Experts (*Q&A* to follow each plenary and final panelist presentation)

11:00 AM	Welcome, Context, and Overview of Workshop Goals Speaker: Dave Peterson and Ned Stetson, DOE HFTO			
11:15 AM	Plenary 1: Current Status and Future Focus of HTE Manufacturing Speaker: Olga Marina, Pacific Northwest National Laboratory			
12:00 PM	Plenary 2: HTE Stack Manufacturing Cost and Analysis Speaker: Brian D. James, Strategic Analysis			
12:45 PM	Plenary 3: Shared Learnings for Achieving High-Volume HTE Manufacturing Speaker: Poul Georg Moses, Haldor-Topsoe			
1:15 PM	Break			
2:00 PM	Panel 1: Universal Challenges and Innovative Approaches for High- Temperature Solid Oxide Electrolysis Stack Manufacturing at High Volume Panelist 1: Venkat Venkataraman, Bloom Energy Panelist 2: Tony Leo, FuelCell Energy Panelist 3: Scott Swartz, Nexceris Panelist 4: Joe Hartvigsen, OxEon			
3:00 PM	Panel 2: Stack Assembly, Scale-Up and Component Manufacturing Panelist 1: John Pietras, Saint-Gobain Panelist 2: Jens Suffner, Schott Panelist 3: Greg Tao, Chemtronergy Panelist 4: Todd Striker, Cummins			
4:00 PM	Wrap-up and Adjourn			

Day 2: Parallel Break-out Discussions

(Combined report out session after Round 2)

Round 1	Thermal Processing	QA/QC	Advanced Manufacturing	Stack Manufacturing System Integration
Round 2	Scaling and Throughput	Interconnects and Protective Coatings	Supply Chain	Sealing and Contacts