

MICROREACTOR PROGRAM STAKEHOLDERS WORKSHOP

Collect feedback on current and future research and development challenges toward enabling demonstration and commercial deployment of microreactors.



May 12-13, 2021

AGENDA

Wednesday, May 12, 2021

Time (MDT)	Workshop Topic	Presenter
9:00 a.m.	Welcome / Importance of Industry Collaboration	Lori Braase, GAIN Andrew Sowder, EPRI Everett Redmond, NEI
9:15 a.m.	DOE-NE Microreactor Program Perspective	Diana Li, DOE-NE
9:30 a.m.	Microreactor Program Overview	John Jackson, INL
9:50 a.m.	Systems Integration and Analysis Overview	Scott Greenwood, ORNL
10:00 a.m.	• Microreactor Market Opportunities	David Shropshire, INL
10:20 a.m.	• Microreactors at Federal Installations	Paul Wilson, U of Wisc
10:40 a.m.	• Microreactor Regulatory and Licensing Challenges	Jason Christensen, INL
11:00 a.m.	<i>Industry Feedback and Q&A</i>	
11:20 a.m.	Break	
11:30 a.m.	Technology Maturation Overview	Holly Trellue, LANL
11:40 a.m.	• Material Maturation (Structural Materials / Moderators)	Erik Luther, LANL
12:05 p.m.	• Heat Pipes and Other Heat Transfer Techniques	Bob Reid, LANL
12:25 p.m.	• Instrumentation and Sensors	David Mascarenas, LANL Chris Petrie, ORNL Troy Unruh, INL
12:50 p.m.	<i>Industry Feedback and Q&A</i>	
1:10 p.m.	NEUP Projects Supporting Microreactor Commercialization	John Jackson, INL
1:15 p.m.	Featuring 7 University Projects – 5 Minute Presentations	
1:50 p.m.	<i>Industry Feedback and Q&A</i>	
2:00 p.m.	NRC Policy and Technical Readiness	Steve Bajorek, NRC Tim Drzewiecki, NRC
2:30 p.m.	Adjourn	

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9:00 a.m.	Welcome / Agenda	John Jackson, INL
9:10 a.m.	EPRI Perspective and Q&A Discussion	Craig Stover, EPRI
9:30 a.m.	NEI and MR Task Force and Q&A Discussion	Marc Nichol, NEI
	Grid Integration	
9:50 a.m.	<ul style="list-style-type: none"> Potential Grid Services and Integration Challenges 	Peggy Ip, EPRI
10:05 a.m.	<ul style="list-style-type: none"> Microgrid Integration Opportunities 	Kurt Myers, INL
10:20 a.m.	<i>Industry Feedback and Q&A</i>	
10:35 a.m.	Project Pele Update and Q&A Discussion	Jeff Waksman, SCO
11:00 a.m.	Break	
11:10 a.m.	Demonstration Capabilities Overview	Piyush Sabharwall, INL
11:20 a.m.	<ul style="list-style-type: none"> SPHERE Facility 	Jeremy Hartvigsen, INL
11:40 a.m.	<ul style="list-style-type: none"> MAGNET Facility 	TJ Morton, INL
12:00 p.m.	<ul style="list-style-type: none"> MARVEL Microreactor 	Yasir Arafat, INL
12:30 p.m.	<ul style="list-style-type: none"> Demonstration Capabilities Path Forward and Opportunities 	Piyush Sabharwall, INL
12:40 p.m.	<i>Industry Feedback and Q&A</i>	
1:00 p.m.	Industry Panel and Discussion	John Jackson, INL
	<ul style="list-style-type: none"> <i>"What is your company's #1 need or issue for microreactor deployment/commercialization?"</i> <i>"Is the Microreactor Program focused on the right things?"</i> 	
2:30 p.m.	Adjourn	

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ACRONYMS

ANL	Argonne National Laboratory
DOE-NE	Department of Energy – Office of Nuclear Energy
EPRI	Electric Power Research Institute
FERC	Federal Energy Regulatory Commission
GAIN	Gateway for Accelerated Innovation in Nuclear
HALEU	High-Assay Low-Enriched Uranium
INL	Idaho National Laboratory
LANL	Los Alamos National Laboratory
MAGNET	Microreactor Agile Non-nuclear Experimental Test bed
MARVEL	Microreactor Applications Research Validation and Evaluation
MRP	Microreactor Program
MSR	Molten Salt Reactor
NEI	Nuclear Energy Institute
NERC	North American Electric Reliability Corporation
NRIC	National Reactor Innovation Center
ORNL	Oak Ridge National Laboratory
PCU	Power Conversion Unit
PNNL	Pacific Northwest National Laboratory
R&D	Research and Development
SMR	Small Modular Reactor
SNL	Sandia National Laboratory
SPHERE	Single Primary Heat Extraction and Removal Emulation
YHx	Yttrium Hydride