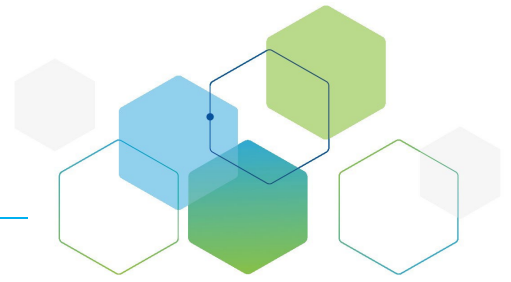


Energy Investment Decision Symposium

SEPTEMBER 29-30, 2026



OBJECTIVE: *an event bringing together national laboratory researchers, university partners, industry professionals and U.S. Department of Energy (DOE) leadership.*

Sessions will cover techno-economic analysis, market analysis, investment-grade financial modeling, project feasibility, workforce planning, tax credit modeling and the growing role of AI in energy analysis.

VISIT INFORMATION

ATTIRE

Business casual.

CONTACT

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Haydn Bryan

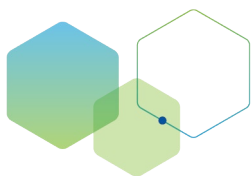
Haydn.bryan@inl.gov

Host: Will Jenson

Admin. Assist.: Chelsey Brown

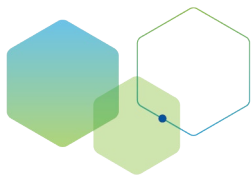
Revision No: FINAL

Date Revised: 9/15/2026

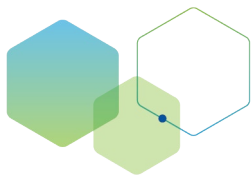
**DAY ONE: TUESDAY, SEPTEMBER 29, 2026****ATTIRE FOR TODAY:** Business casual.**INL Meeting Center**

775 MK Simpson Blvd, Idaho Falls, ID

0800-0900	Check in and Networking Chelsey Brown , Idaho National Laboratory <i>*Rooms A110 & A114 are open for private calls, if needed</i>	Room Lobby, A102	<i>Water, Coffee, Tea, Juice,</i> <i>Snacks available all day</i>
0900-0915	Welcome Will Jenson , Idaho National Laboratory	A102	
0915-0930	The Role of Decision Sciences for Energy Investment Thomas Mosier , Idaho National Laboratory	A102	
0930-0945	Keynote: EDF Efforts for Energy Investment Chelsea Sexton , Department of Energy	A102	
0945-1030	Fireside Discussion with Keynote Will Jenson , Idaho National Laboratory Chelsea Sexton , Department of Energy	A102	
1030-1045	BREAK	BREAK	
1045-1145	Morning Panel Discussion: Economics and Nuclear Energy Jason Hansen , Idaho National Laboratory Matt Crozat , Nuclear Energy Institute	A102	
1145-1300	Lunch: <i>double-sided buffet in hallway, tables in A102 open for seating</i>	A102	
1300-1440	<u>Nuclear Cost Estimation and Economic Modeling</u>	A102	
	1320 DCAF: Making Nuclear Project Economics Accessible Through a Discounted Cash Flow Analysis Framework Dylan McDowell , Idaho National Laboratory		
	1340 Bottom-up Cost Estimation of Intertwined Nuclear Fuel Lattice for Up-rated heat eXchange (INFLUX) Fuel Concepts for Nuclear Reactors WenChi Cheng , Idaho National Laboratory		
	1400 The Lambda-Function: Dispatch-Adjusted Levelized Cost for Flexible Nuclear Gregory Forero , HGP Intelligent Energy		



Room A113	<u>Critical Materials and Supply Chain Economics</u>	A113
	1320 Techno-Economic Analysis of Nd-Rich Mischmetal Recovery from Idaho Soil Sneha Pradhananga, <i>University of Idaho</i>	
	1340 Sustainable Recovery of Critical Metals from Spent Lithium-Ion Batteries Through Gluconic Acid-Based Bioleaching: Techno-Economic Analysis, Life Cycle Assessment and Process Optimization Shoaib Khan, <i>Idaho National Laboratory</i>	
	1400 Diversifying low-purity Ga Production Beyond China Tien Le, <i>Idaho National Laboratory</i>	
Room A112	<u>Analytical Frameworks, AI, and Decision Support</u>	A112
	1320 Robotic Construction and Digital Twin Outfitting of Electric Grids: Evaluation of TAO Between Lunar/Martian and Terrestrial Deployments of Electrical Grids Jean Marc Gauthier, <i>University of Idaho</i>	
	1340 Dynamic Opportunity Cost: A Framework for Technology Termination and Switching Decisions Across the Technology Readiness Level Spectrum Javier Calvo Amodio, <i>University of Idaho</i>	
	1400 Can Certification Unlock Investment? Assessing a National Program for Behind-the-Meter Storage Torrey Lyons, <i>Idaho National Laboratory</i>	
1420-1440	BREAK	BREAK
1440-1600	<u>Nuclear Cost Estimation and Economic Modeling</u>	A102
	1500 Evaluating and Applying Nuclear Cost Estimates in Technoeconomic Analysis Iza Lantgios, <i>Idaho National Laboratory</i>	
	1520 Estimating Bankable Assets: The Role of EORs in Refining New Nuclear Facility CapEx Estimation Mitch Zafer, <i>Coffman Engineers, Inc.</i>	



1540

Designing Powerful TEA Tools: PSION for Physical Security Cost Optimization

Haydn Bryan, *Idaho National Laboratory*

Room A113

Critical Materials and Supply Chain Economics

A113

1500

A Computational Decision Support Workflow Using AI for Lanthanide Separation with Ligands

Karen D'Souza, *Idaho National Laboratory*

1520

Regulatory Context and E-Waste Recycling Behavior: A Comparative Study of New York and Idaho

Yuan-Yuan Lee, *Idaho National Laboratory*

Room A112

Analytical Frameworks, AI, and Decision Support

A112

1500

Autonomous Design Optimization for Nuclear Energy (AutoDONE): An Agentic Framework for Nuclear Power Plant Design

Sonali Sinha Roy, *Idaho National Laboratory*

1520

Improving Energy Technical Assistance Through a Community-Informed Multi-criteria Evaluation Framework

Wanying Wu, *Idaho National Laboratory*

1540

Cross-Technology Economics in a Large-scale Capacity Expansion Model

Wesley Cole, *National Laboratory of the Rockies*

1600-1615

Wrap Up discussions

A102

1615

Adjourn

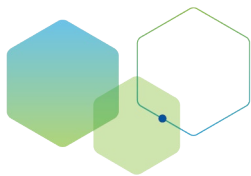
Adjourn

1700-1900

Poster Session

A102

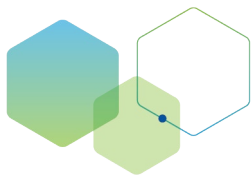
Food and drinks available, provided by ScottMadden

**DAY TWO: WEDNESDAY, SEPTEMBER 30, 2026**

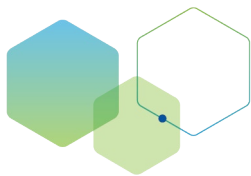
ATTIRE FOR TODAY: Business casual.

INL Meeting Center775 MK Simpson Blvd., Idaho Falls, ID
A102

0830-0900	Check in and Networking Chelsey Brown, <i>Idaho National Laboratory</i> <i>*Rooms A110 & A114 are open for private calls, if needed</i>	Lobby, A102	<i>Water, Coffee, Tea, Juice, Snacks available all day</i>
0900-0915	Welcome Will Jenson, <i>Idaho National Laboratory</i>	A102	
0915-0930	Keynote: Deployable Energy Richard Gaut, <i>CFO, Deployable Energy</i>	A102	
0930-1000	Keynote Discussion with Q&A Richard Gaut, <i>CFO, Deployable Energy</i>	A102	
1000-1030	Collaborating with National Lab Foundations on Energy Investments Linda Montgomery, <i>INL Foundation</i>	A102	
1030-1045	BREAK	BREAK	
1045-1115	Hi-Test Facility: Supporting the Deployment of SMR 300 Piyush Sabharwall, <i>Idaho National Laboratory</i>	A102	
1115-1145	Nuclear Fuels Discussion Greg Core, <i>Nuclear Energy Institute</i> Dan Wachs, <i>Idaho National Laboratory</i>	A102	
1145-1300	Lunch: double-sided buffet in hallway, tables in A102 open for seating	A102	
1300-1420	<u>Scaling, Financing, and Deploying Nuclear</u>	A102	
	1320 UPRATE: A Web Application for Techno-Economic Analysis of Nuclear Power Plant Upate Projects Jacob Bryan, <i>Idaho National Laboratory</i>		
	1340 Nuclear Heat Cost Considerations Logan Williams, <i>Idaho National Laboratory</i>		



	1400 Technoeconomic Analysis of Nuclear-Powered Data Centers: Cost-Based PPA Modeling and Integrated Tool Workflows <i>SoBin Cho, Argonne National Laboratory</i>	
Room A113	<u>Fuels, Chemicals, and Feedstock Economics</u> 1320 Techno-Economic Analysis of Hydrothermal Pretreatment for Recovering Carbohydrates from Sugar Beet Pulp <i>Kundan Kumar, University of Idaho</i> 1340 Nuclear's Market for Petrochemical Intermediates <i>Sam Root, Idaho National Laboratory</i> 1400 Smarter Feedstock Preprocessing: An Artificial Intelligence (AI) – Enabled Literature-to Pathway Framework <i>Srikar Srinivas, Idaho National Laboratory</i>	Room A113
Room A112	<u>Energy Storage, Thermal Systems, and Grid Planning</u> 1320 BOP Lessons Learned for Derisking BESS Facilities <i>Mitch Zafer, Coffman Engineers, Inc.</i> 1340 Advancing Hybrid Underground Thermal Energy Storage Systems to Enhance Multi-Sector Energy Reliability <i>Trevor Atkinson, Idaho National Laboratory</i> 1400 Technoeconomic Framework for Multi Stream (Hybrid) Energy Storage Systems <i>William Conlon, Pintail Power, LLC.</i>	Room A112
14:20-14:40	BREAK	BREAK
14:40-16:00	<u>Scaling, Financing, and Deploying Nuclear</u> 1500 Pathways to Massively Scaling Nuclear Deployment in the United States <i>Chandrakanth Bolisetti, Idaho National Laboratory</i> 1520 When do the Megawatts Arrive? A Public Baseline for U.S. Power Uprate Delivery Timing <i>León Garcia, Stanford University</i>	A102



	1540 Financial Innovation: Lessons Learned from the Renewable Energy Industry Paul Quinlan, <i>ScottMadden</i>	
Room A113	<u>Fuels, Chemicals, and Feedstock Economics</u>	Room A113
	1500 Water-Selective Membrane Reactor for CO₂-to-Methanol Synthesis: A Techno-Economic and Life Cycle Assessment Achara Tiong, <i>Idaho National Laboratory</i>	
	1520 Hydrogen Projects as Production Systems: A PSOM Framework for Risk-Adjusted Investment and Portfolio Learning Justin Freeman, <i>Coffman Engineers, Inc.</i>	
Room A112	<u>Energy Storage, Thermal Systems, and Grid Planning</u>	Room A112
	1500 Managing Cooling Demand using Cold Underground Thermal Energy Storage Rebecca Barney, <i>National Laboratory of the Rockies</i>	
	1520 Outlook for Nuclear Energy 2026 Neal Mann, <i>Argonne National Laboratory</i>	
	1540 Techno-Economic Tradeoffs of Hybrid Hydropower Development at Non-Powered Dams Kolter Stevenson, <i>Idaho National Laboratory</i>	
16:00-16:15	Closing Remarks	A102
16:15	ADJOURN	ADJOURN