

Workshop

# Subsurface Energy to Power

Accelerating Electricity Capacity with  
Natural Gas, Geothermal, Hydrogen, and Lithium

7-8 January 2026

Houston, Texas

View this  
program online

## Wednesday, 7 January

**8:00 AM - WELCOME****8:10 AM - KEYNOTE** - Garrett Golding, Federal Reserve Bank of Dallas**8:30 AM - Session 1: Overview of Rapid Conversion to Electricity: Natural Gas, Geothermal, Hydrogen, Lithium****Session Co-Chairs:** Paula Oliveira, Coimbra LLC and Claudia Molina, SeguEN Technologies

- Roxy Bush, Rystad Energy - *The Electrification Imperative: Projecting Demand and Growth*
- Ademola Fagade, GeoPrime Energy - *Electricity Generation: Natural Gas and Hydrogen Turbines*
- Jory Pacht, Altair - *How the Grid Works*
- Allison Kennedy Thurmond, Equinor - *Direct Lithium Extraction: Future Energy*
- OPEN FORUM

**10:00 AM - NETWORKING BREAK****10:30 AM - Session 2: Types of Projects/Project Development****Session Co-Chairs:** Brittany Hollon, New Mexico Energy Conservation and Amanda Haddad, Woodside

- Alberto Gaudio, Fugro - *Integrated Surface and Subsurface Methods for Geothermal Risk Mitigation*
- Kirsten Marcia, Deep Earth - *Saskatchewan Hybrid Geothermal Energy Project*
- Shuvajit Bhattacharya, University of Texas at Austin - *Geothermal Resource Discovery to Delivery in Texas: From Baseload Aspirations to Competitive Backup Power and Thermal Services for Today's Market*
- Jorge Barrios Rivas, Stratum Reservoir - *From Core to Algorithm: Integrating Lab Intelligence and AI-Ready Data for Smarter Subsurface Energy Projects*
- OPEN FORUM

**12:00 PM - LUNCH****1:00 PM - Session 3: Resource Characterization and Mapping for Natural Gas, Geothermal, Lithium, Hydrogen, Uranium, and Sand****Session Co-Chairs:** Shuvajit Bhattacharya, University of Texas and Sharon Cornelius, University of Houston

- Ibrahim Cemen, University of Alabama - *Subsurface Characterization of Petroleum and Geothermal Systems, Examples from Oklahoma, Alabama, and Anatolia*
- Danny Kingham, GSI Environmental - *Sustainable Data Center Siting: Using CCS and Geothermal to Lower Carbon Emissions and Water Demand*
- Hermann Lebit, Alma Energy - *Critical Minerals from Produced Water: Turning Waste to Value*
- Thomas Bowman, Energy Consulting Partners - *The Geology Behind Data Centers: Supplying the Foundations of AI Infrastructure (sourcing sand for cement)*
- Michael Campbell, I2M Corporation - *Uranium for Nuclear Power: In Situ Uranium Recovery Projects*
- Tongwei Zhang, BEG, UT-Austin - *In-Situ Hydrogen Generation from Underground Coal Gasification: Advantages and Limitations in Technology, and Concerns in Environmental Protection*
- OPEN FORUM

**3:15 PM - Session 4: Business and Financing of Energy Projects****Session Co-Chairs:** Shanyou Nie, AAPG Well Read and Mark Hamzat Erogbogbo, Texas Star Alliance

- David Romero, Enverus - *The Power Trap: Hard Truths Behind the AI Megawatt Race*
- Alyssa Karotkin, Equinor - *Emerging Business Models in Value Pools in Power*
- Joseph Chandler, Energy, Minerals, Natl Resources, New Mexico - *Perspectives on the Role of Government in Geothermal and Implications to your Capital Stack*
- Bill DeMis, Rochelle Court, LLC - *Haynesville Gas: Coming Supply Shortage in Gulf Coast and Economics of Alternatives*
- Kirk A. Barrell, Barrell Energy Inc. - *Navigating the Business Side of Energy Expansion and Diversification*
- OPEN FORUM

**5:00 - 6:00 PM - NETWORKING RECEPTION**

## Thursday, 8 January

### 8:00 AM - WELCOME

**8:10 AM - KEYNOTE** - Patrick Walsh, Zanskar - *Accelerating Geothermal Exploration and Development - Big Blind and the Future of Conventional Geothermal*

### 8:30 AM - Session 5: Technology Integration

**Session Co-Chairs:** Elizabeth Cambre, Vallourec and Kenneth Beckman, Independent

- Johanna Ostrum, COO, Geothermal Gradient - *Converting Oil and Gas Wells to Geothermal*
- Cary Lindsey, Nevada Bureau of Mines and Geology / UNR - *Geothermal Reservoirs and Energy in Nevada*
- Krishna Tracy, Amazon Web Services - *Geothermal Energy for Data Centers*
- Norman E. Wells, Berger Geosciences - *Geopressure & Subsurface Energy: Considerations & Consequences*
- Kevin McCarthy, BakerHughes - *Enhanced Geothermal Systems and Electricity Generation*
- OPEN FORUM

### 10:15 AM - NETWORKING BREAK

### 10:30 AM - Session 6: Land, Legal, Permits, Tax Credits, and Other Considerations

**Session Co-Chairs:** Jim Tucker, Occam Resources and Judy Schulenberg, Explorer Group

- Camron Miller, SLB - *Fulshear, TX, the Fastest-Growing Community in Texas. Securing Energy for the Future.*
- Jared Ware, Sr. Engineer, Texas Railroad Commission - *Regulations and Permitting: Accelerating the Permitting Process*
- Drew Nelson, Sr. Government Official - *Government Affairs and Energy*
- John Eichelberger, Alaska Division of Geological and Geophysical Survey - *Alaska's Geothermal Opportunities From Warm to Superhot*
- OPEN FORUM

### 12:00 PM - LUNCH

### 1:00 PM - Session 7: Data Centers and Community-Scale Solutions and Deployment Strategies

**Session Co-Chairs:** Danny Kingham, GSI International and Amy Henry, Eunike Ventures

- Yuriy Gubanov, Amazon Web Services - *Data Centers*
- Yosmel Sanchez, Fugro - *Accelerated Data Center Site Selection with Smart Geodata*
- Jay Egg, Egg Geo, LLC - *The Next Wave of Geothermal: Using Waste Heat from Data Centers to Power Community-Scale Aquatic Recreation*
- Monte Goodell, Renewable Energy Institute - *The Trigeneration Advantage for Data Centers*
- Amir Hermes, SLB - *Data Center Solutions Portfolio*
- Kirk Sisco, Expand Energy - *Expand Energy, Natural Gas, and Data Centers*
- OPEN FORUM

### 3:00 PM - NETWORKING BREAK

### 3:15 PM - Session 8: AI, Environment, Water Management

**Session Co-Chairs:** Paula Oliveira, Coimbra LLC and Denis Potapov, R&B Technology Group

- Claudia Molina, SeguEN Technologies - *AI for Subsurface Characterization Across Various Energy Sectors*
- Kenneth Beckman, Independent - *AI-Assisted Carbon and Energy Storage*
- Patrick Ng, Shaleforce - *AI for Reimagining and Repurposing Resources*
- Dan Arthur, ALL-LLC - *AI-Optimized Water and Environmental Management for Power Generation and Data Centers*
- Shahid Azizul Haq, Wellquest Consulting, Inc. - *Produced Water: From Pore to Pipeline to Power*
- Norman E. Wells, Berger Geosciences - *AI: The Proactive Approach to Mitigating Injection Side-Effects*
- OPEN FORUM

### 5:15 PM - CLOSING REMARKS

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