



9th ANNUAL ENERGY POLICY RESEARCH CONFERENCE

ENERGY DECISION- MAKING IN TIMES OF DISRUPTIVE CHANGE

*September 29 - October 1, 2019
Boise Centre, Boise, Idaho*



WELCOME to the 9th ANNUAL ENERGY POLICY RESEARCH CONFERENCE!

On behalf of the Energy Policy Institute team, I want to extend a warm welcome to you.

Our discussions over the next couple days will consider complexities of energy decision-making amidst disruptive change. Whether we are examining influences associated with rapid price changes, novel business models, natural and man-made disasters, or related socio-technical shifts, the way we assess and implement choices will be the subject of our focus.

We are delighted to be joined by our keynote speaker, Ms. Carol Battershell, and special guest, Congressman Mike Simpson. We also want to extend thanks to our sponsors, partners, exhibitors, and board members - all of whom have contributed importantly to this experience. Four individuals of particular note include Stephanie Lenhart and Seth Blumsack, who co-chaired the Scientific Advisory Committee's review of the conference abstracts, along with David Gattie and Tom Ptak who completed the paper review with me to identify the Conference's top paper. To the talented team of experts who developed a fun and informative geothermal tour of Boise, thank you for highlighting the Idaho energy story. We're grateful to the State of Idaho, Boise Warm Springs Water District, the City of Boise, Edwards Greenhouse, and the Bishops' House for enabling the unique visit on a Sunday afternoon. Finally, this event couldn't happen without a terrific team at the Energy Policy Institute, the support of Boise State University, and our CAES collaborators.

Thank you for joining us. We look forward to many valuable discussions.

Kathleen Araújo
Director of the Energy Policy Institute

An advertisement for Intermountain Gas featuring a collage of scenic Idaho landscapes and recreational activities. The top section shows a mountain range with a semi-transparent text box. The middle section shows a person riding a bicycle on a dirt path through a green valley. The bottom section shows a river flowing through a forest with a person in a blue helmet and orange life jacket in the foreground.

Intermountain Gas
welcomes you to the
2019 Energy Policy Research Conference

Intermountain Gas has been fueling southern Idaho homes and businesses with clean, reliable, and efficient domestic energy for over 60 years. We're proud of our heritage and are pleased to be a sponsor of the 2019 Energy Policy Research Conference.

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Idaho Power has a long history of providing reliable and affordable energy. As we look to the future, our goal is to provide **100% clean energy by 2045**.

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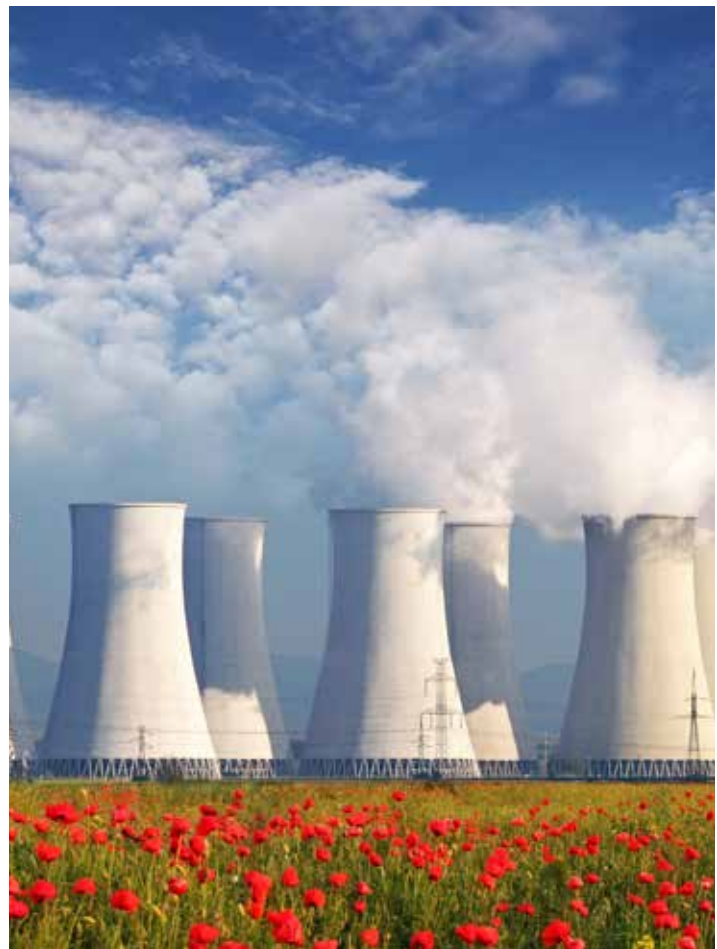


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SPEAKERS

CAROL BATTERSHELL

KEYNOTE SPEAKER

Carol Battershell served ten years (2008-2018) in the U.S. Department of Energy. She led multi-billion dollar technical programs in both the Bush and Obama Administrations; ran the Energy Efficiency and Renewable Energy field operations office, which at its peak was responsible for approximately \$7 billion of grants, research and construction; was a key contributor on two multi-Agency energy policy reviews; and served as Acting Director of the Policy Office during the Trump Administration transition.

Carol also worked for 25 years (1983-2008) in the energy industry for BP and Standard Oil, holding roles in operations management, strategy development, finance, and policy development, and spent ten years living and working in Europe.

Carol holds a BS in Engineering from Purdue University with a specialization in environmental engineering and an MBA from Case Western Reserve University.



MIKE SIMPSON

CONGRESSMAN
US HOUSE OF REPRESENTATIVES

Mike Simpson is serving his eleventh term in the House of Representatives for Idaho's Second Congressional District. Mike serves on the House Appropriations Committee. He is the Ranking Member for the Subcommittee on Energy and Water Development. He also serves on the Interior and Environment Subcommittee. Simpson is one of the House's leading advocates for a new energy policy and a renewed commitment to research and development of improved nuclear energy technologies.

His political career began in 1980, when he was elected to the Blackfoot City Council. In 1984, he was elected to the Idaho Legislature where he served until 1998, the last six years serving as Speaker. Simpson was born in Burley, Idaho and raised in Blackfoot.



MARK CHILES

VP, REGULATORY AFFAIRS & CUSTOMER SERVICE
MONTANA-DAKOTA UTILITIES GROUP

Mark Chiles is Vice President - Regulatory Affairs and Customer Service for Montana-Dakota Utilities Group, which includes Intermountain Gas Company (IGC) and Cascade Natural Gas Corporation (CNGC). Prior to his current position he was Vice President and Controller for IGC and CNGC.

Mark oversees the regulatory functions for IGC and CNGC in the states of Idaho, Oregon, and Washington and is also responsible for the customer relations functions of the utility group. He began his career in the energy industry with IGC in 1992 and has worked for companies in the utility, gas marketing, and exploration and production businesses. Prior to joining IGC, Mark worked in public accounting with Balukoff, Lindstrom & Company.





MITCH COLBURN

DIRECTOR , RESOURCE PLANNING & OPERATIONS
IDAHO POWER COMPANY

Mitch leads an organization responsible for the energy future of the 1.2 million people that Idaho Power serves. Mitch also oversees work on hydrologic forecasting, water policy, river engineering, cloudseeding, streamflow gaging and developing the billion-dollar joint-venture Boardman to Hemingway transmission line project.

Mitch has an in-depth understanding of the energy industry after working in the industry for 12 years. He graduated Summa Cum Laude from the University of Idaho with a Bachelor of Science degree in electrical engineering, with an emphasis on power systems. He earned his Master of Engineering from the University of Idaho, and his Master of Business Administration from Boise State University.

Mitch serves on the United Way Education Vision Council and the Advisory Board for the University of Idaho Electrical and Computer Engineering Department.

JEFF GRUBB

DIRECTOR, RESOURCE POLICY & PLANNING
GEORGIA POWER COMPANY

Jeff leads the team responsible for long term generation planning including the development of the Company's Integrated Resource Plan (IRP).

Jeff was previously a Project Manager in Resource Planning at Southern Company Services (SCS), a role he held from June 2011 until March 2016. In that role he managed the development and coordination of the system-wide integrated resource plan for the retail operating companies of Southern Company, as well as economic evaluations for special projects. He also provided regulatory support to the operating companies and was involved in many planning coordination activities across the system. Jeff began his career as a cooperative education student in Marketing in 1992 and served in various roles within Marketing until 2001.

Jeff has a Bachelor degree in Mechanical Engineering from Georgia Tech and a Masters of Business Administration from Auburn University.



BARBARA LOCKWOOD

VP, REGULATION
ARIZONA PUBLIC SERVICE COMPANY

Barbara Lockwood is vice president of regulation for Arizona Public Service, Arizona's largest electric company, where she manages federal and state regulatory activities for APS. Prior to moving into regulatory activities, she served as general manager of energy innovation, where she managed technology and renewable energy programs.

Lockwood began her career at DuPont in chemical engineering and management roles. She then spent a number of years in environmental consulting providing property development and business acquisition services to national and global companies in a variety of industries. Lockwood joined APS in 1999.

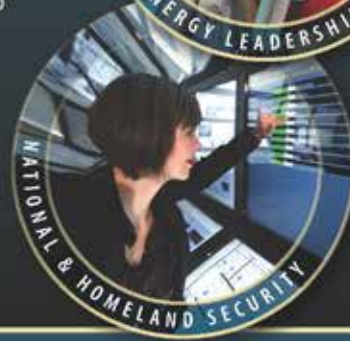
Her policy and regulatory experience includes testimony before the U.S. House of Representatives Select Committee on Energy Independence and Global Warming, as well as a field hearing with Congresswoman Gabrielle Giffords on the Federal Investment Tax Credit and its effect on solar development in the Southwest.



70th Anniversary

For 70 years, work done by the scientists, engineers, technicians and support staff at Idaho's national laboratory has helped empower America's future.

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IGEM

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Harnessing the sun for a brighter tomorrow

When Idaho National Laboratory's Transportation Services installed a no-idle, solar/battery-powered air-conditioning and heating system on an INL bus in summer 2017, the goal was sustainability – reducing fuel consumption and emissions.

Once the system is installed on all 84 INL buses, fleet managers expect to see annual savings of 10,000 gallons of diesel fuel and greenhouse gas reduction of more than 87 metric tons per year.

SUN POWER

The solar-powered system allows drivers to maintain temperatures in the coach by both heating and cooling without running the engines. A complete no-idle system includes three roof-mounted solar panels, a battery pack and a blower, motor and compressor to run bus air conditioning separately from the bus engine.



 Idaho National Laboratory



35
YEARS
1984 - 2019

IDAHO BUSINESS REVIEW
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AGENDA

ENERGY DECISION-MAKING IN TIMES OF DISRUPTIVE CHANGE

SUNDAY, September 29, 2019

11:30 am - 2:00 pm

BOISE'S GEOTHERMAL HISTORY TOUR WITH IDAHO NATIONAL LABORATORY'S EFFICIENCY-OPTIMIZED BUS

Departure: Front Street next to the Grove Hotel

A shuttle bus ride and walking tour will review Boise's historic and currently used geothermal sites, including the only U.S. Capitol to be heated by geothermal energy. The INL bus for the tour has maximized efficiency with a no idle, solar/battery-powered air conditioning and heating system to reduce fuel consumption and emissions.

3:15 pm - 4:30 pm

ROUNDTABLE: THE ENERGY WORKFORCE OF THE FUTURE

Trueblood Room, Student Union Building, Boise State University

CO-LEADS:

KATHY ARAÚJO, Boise State University

TOM PTAK, University of Idaho

6:00 pm - 8:00 pm

WOMEN IN CLEAN ENERGY RECEPTION (*All are welcome*)

Bodovino, 404 S. 8th Street Boise, Idaho

CO-HOSTED BY: The Energy Policy Institute (EPI) and Women in Clean Energy (C3E)

MONDAY, September 30, 2019

8:00 am - 3:00 pm

REGISTRATION

Boise Centre East, 4th Floor, Top of Escalators

8:00 am - 9:45 am

BREAKFAST

Boise Centre East, Foyer outside of Room 420

9:00 am - 9:45 am

WELCOMING REMARKS

Boise Centre East, Room 420

DR. MARLENE TROMP, President, Boise State University

DR. KATHY ARAÚJO, Director, Energy Policy Institute

DR. NOEL BAKHTIAN, Director, Center for Advanced Energy Studies

KEYNOTE ADDRESS

MS. CAROL BATTERSHELL

10:15 am - 11:30 am

RESEARCH PRESENTERS-SESSION 1

Boise Centre East, Rooms 410A - 410C

1A - CROSS-SECTORAL CHALLENGES AND OPPORTUNITIES

Room 410A

Moderator: JOHN CHATBURN, Idaho State Office of Energy and Mineral Resources

EMILY GRUBERT, Georgia Institute of Technology
Conventional Hydroelectricity and the Future of Energy

JENNY FRANK, The State University of New York
Assessing Indian Point's Electricity Generation through Renewable Energy Pathways:
A Technical and Economic Analysis

JOHN BELL, University of Idaho
Fuel Supply Chains in the Western Interconnect: Evaluating Availability
during Extreme Weather Events

10:15 am – 11:30 am

ROBERT SCHMITT, United States Department of Energy
Pursuing Innovative Finance Models to Enable Beneficial Energy and Water
Infrastructure and Systems

1B - ADAPTIVE PRACTICES AND REGULATION OF EMERGENT TECHNOLOGY IN ENERGY SYSTEMS

Room 410B

Moderator: LEAH GUZOWSKI, Center for Advanced Energy Studies
and Idaho National Laboratory

WILL FRAZIER, National Renewable Energy Laboratory
Assessing the Role of Energy Storage as a Peaking Capacity in the United States

JUAN PABLO CARVALLO, Lawrence Berkeley National Laboratory
The Economic Value of Integrating Distributed Energy Resources in Electric Utility
Resource Planning

ANNA KARMAZINA, Oregon State University
Barriers and Facilitators of Demand-side Management in the U.S. Electricity Sector:
Comparative Case Study

1C - MARKET REDESIGN AND NEW BUSINESS MODELS

Room 410C

Moderator: TIM TATUM, Idaho Power Company

STEVE DAHLKE, Colorado School of Mines
Integrating Energy Markets: Implications of Increasing Electricity Trade on Prices
and Emissions in the Western United States

SHAUN MCRAE, Instituto Tecnológico Autónomo de México
Retail Pricing in Colombia to Support the Efficient Deployment of Distributed
Generation and Electric Vehicles

JAMES VAN NOSTRAND, West Virginia University College of Law
Quantifying the Resilience Value of Distributed Energy Resources

12:00 pm – 1:30 pm

LUNCH, NETWORKING & MODERATED DISCUSSION

Boise Centre East, Room 420

“Decision-Making for Energy Utilities in the Current Policy Environment”

MODERATORS:

DR. DAVID GATTIE, University of Georgia and
DR. KATHY ARAÚJO, Energy Policy Institute

PANEL:

BARBARA LOCKWOOD, Arizona Public Service
MITCH COLBURN, Idaho Power
MARK CHILES, Montana-Dakota Utilities Group
JEFF GRUBB, Georgia Power / Southern Company

1:45 pm – 3:00 pm

RESEARCH PRESENTERS-SESSION 2

Boise Centre East, Rooms 410A - 410C

2A - CROSS-POLICY COMPLEXITIES

Room 410A

Moderator: TERRY JESTER, Solpad

BRAETON SMITH, Argonne National Laboratory
Does Participation in Green Pricing Programs Hinder the Adoption of Net Meters?

ROBERT GODBY, University of Wyoming
Estimating the Impact of State Taxation Policies on the Cost of Wind Development
in the West

SARAH MILLS, University of Michigan
The Role of Politics and Place in Support for Renewable Energy Policy

1:45 pm – 3:00 pm

2B - ADAPTIVE PRACTICES AND REGULATION OF EMERGENT TECHNOLOGY IN ENERGY SYSTEMS

Room 410B

Moderator: HALEY FALCONER, City of Boise Public Works

HANNA BREETZ, Arizona State University
Political Feedbacks Can Undermine Ambitious Energy Policy Goals

JESSICA PRICE, The Nature Conservancy
Improving Solar Development Policy and Planning through Stakeholder Engagement:
The Long Island Solar Roadmap Project

NAIM DARGHOUTH, Lawrence Berkeley National Laboratory
Implications of Rate Design for the Customer-Economics of Behind-the-Meter Storage

GERALD BRAUN, The Integrated Renewable Energy Systems Network, Inc.
Policies for Local Energy Collaboration

2C - MARKET REDESIGN AND NEW BUSINESS MODELS

Room 410C

Moderator: SETH BLUMSACK, Pennsylvania State University

GABRIEL CHAN, University of Minnesota
Analyzing the Drivers of Green Power Programs: Insights from Minnesota Cooperatives

VALERIE BRADER, Rivenoak Consulting, Inc.
Virtual Power Reduction Agreements

ASHWIN RAMDAS, National Renewable Energy Laboratory
California Time-of-Use (TOU) Transition: Effects on Distributed Wind and Solar
Economic Potential

3:15 pm – 4:30 pm

RESEARCH PRESENTERS-SESSION 3

Boise Centre East, Rooms 410B - 410C

3B - GEOPOLITICS AND INTERNATIONAL COMPLEXITY

Room 410B

Moderator: ZACHARY TUDOR, Idaho National Laboratory

DAVID GATTIE, University of Georgia
U.S. Energy Policy: In the World As It Is

ALEXANDER NAGEL, University of Idaho
A Nexus Approach to Understanding Chile's Renewable Energy Landscape

TOM PTAK, University of Idaho
From Powershed to Energy Conduit and Integrative Energy Center: Tracing
the Evolution of Southwest China's Yunnan Province

3C - MARKET REDESIGN AND NEW BUSINESS MODELS

Room 410C

Moderator: JETTA WONG, Clean Tech Incubator

LYNNE KIESLING, Carnegie Mellon University
From Airbnb to Solar: Toward a Transaction Cost Model of a Retail Electricity
Distribution Platform

DAVID BERNELL, Oregon State University
The Role of Community Choice Aggregation in California's Transition to Renewable
Energy

GALEN BARBOSE, Lawrence Berkeley National Laboratory
Utility-Owned Residential Rooftop Solar: An Analysis of Ratepayer and Shareholder
Impacts

EVVAN MORTON, Arizona State University
Emissions Trading and Climate Change: The Consequences of Pairing Old Solutions
with New Problems

6:00 pm – 8:00 pm

RECEPTION

Zion Bank Building, 800 West Main Street, Boise, 17th Floor

TUESDAY, October 1, 2019

7:30 am - 11:00 am

REGISTRATION

Boise Centre East, 4th Floor, Top of Escalators

7:30 am - 9:00 am

BREAKFAST

Boise Centre East, Foyer outside of Room 420

8:45 am - 10:00 am

RESEARCH PRESENTERS-SESSION 4

Boise Centre East, Rooms 410B- 410C

4B - ADAPTIVE PRACTICES AND REGULATION OF EMERGENT TECHNOLOGY IN ENERGY SYSTEMS

Room 410B

Moderator: JUAN PABLO CARVALLO, Lawrence Berkeley National Laboratory

WESLEY COLE, National Renewable Energy Laboratory
Challenges of High Penetration Renewables for the U.S. Power System

JOHN GARDNER, Boise State University
Mesh Network Communication for Robust Aggregation of Distributed Resources

BRADY STOLL, National Renewable Energy Laboratory
Contributions of Solar and Storage to Future Power Needs

YOUNGSUN BAEK, Union of Concerned Scientists
The Economic Feasibility of Solar Plus Storage System in Illinois

4C - ORGANIZATIONAL CHANGE, FRAMING, AND INDICATORS

Room 410C

Moderator: HANNA BREETZ, Arizona State University

MATTHEW GRIMLEY, University of Minnesota
An Innovation System Perspective on Load Management: Technology Deployment in Midwestern Electric Cooperatives, 1940s to Present

STEPHANIE LENHART, Boise State University, Energy Policy Institute
Comparing and Contrasting the Institutional Relationships, Regulatory Frameworks, and Energy System Governance of European and U.S. Electric Cooperatives

WILL GORMAN, Lawrence Berkeley National Laboratory
Integrating Transmission Expenditures for Utility-Scale Wind and Solar into LCOE Estimates for New Generating Technologies

CAMILA APABLAZA, Georgia Institute of Technology
An Evolutionary Game Theory Approach to the Role of Government in Technology Transitions

9:00 am - 10:00 am

POLICY AND STRATEGY COMMITTEE MEETING (by invitation)

Boise Centre East, Room 410A

10:15 am - 11:30 am

RESEARCH PRESENTERS-SESSION 5

Boise Centre East, Rooms 410B-410C

5B - CROSS-POLICY COMPLEXITIES

Room 410B

Moderator: SARAH ROBEY, Idaho State University

DANIEL RAIMI, Resources for the Future
Greenhouse Gas Impacts of Increased U.S. Oil and Gas Production

ELISABETH GRAFFY, Arizona State University
Integrating Governance of Energy Transitions and Climate Engineering

GABRIEL CHAN, University of Minnesota
Co-Benefits of California Climate Policies: How Are Local Air Pollution and Health Benefits Distributed?

5C - ORGANIZATIONAL CHANGE, FRAMING, AND INDICATORS

Room 410C

Moderator: WESLEY COLE, National Renewable Energy Laboratory

BRIAN SERGI, Carnegie Mellon University
Aligning Climate and Health Benefits of Power Plant Siting and Retirement Decisions

10:15 am – 11:30 am

GREGORY STELMACH, Oregon State University
Issue Framing in the LNG Export Terminal Siting Process

BENJAMIN LARSEN, Boise State University, Idaho Policy Institute
Urban Energy Planning: Policy through Consultative Surveys

12:00 pm – 1:30 pm

LUNCH, NETWORKING & MODERATED DISCUSSION

Boise Centre East, Room 420

“Issues and Opportunities for the US in Energy Policy”

MODERATOR:
DR. KATHY ARAÚJO, Energy Policy Institute

PANEL:
MS. CAROL BATTERSHELL
CONGRESSMAN MIKE SIMPSON

1:45 pm – 3:00 pm

RESEARCH PRESENTERS-SESSION 6

Boise Centre East, Room 410B

6B - CROSS-SECTORAL CHALLENGES AND OPPORTUNITIES

Room 410B

Moderator: ANDREW COCKERILL, Consultancy

ANDREW KLEIT, Pennsylvania State University
Reaching the Limits of Capacity Markets

JOACHIM SEEL, Lawrence Berkeley National Laboratory
Impact of High Variable Renewable Energy Futures on Wholesale Power Prices
and Electric Sector Decision-Making: Demand-Side Effects

SANDRA SATTLER, Union of Concerned Scientists
Opportunities in Energy: Climate Change, a National Low-Carbon Electricity Standard
and the Green New Deal

2:00 pm – 3:00 pm

SCIENTIFIC ADVISORY MEETING (by invitation)

Boise Centre East, Room 410A

4:00 pm – 6:00 pm

CAES 10TH ANNIVERSARY (by invitation)

Boise State University, Stueckle Sky Center

RESEARCH POSTER PRESENTERS

MAYUR BANDEKAR, University of Michigan
Assessing the Social Dynamics of Wind Energy Sites
in Michigan to Predict Contention among Prospective
Wind Projects

BEN CHOU, Pennsylvania State University
Plugging In and Charging Up: Increasing Plug-in Electric
Vehicle Adoption by Residents of Multifamily Buildings
in Los Angeles County

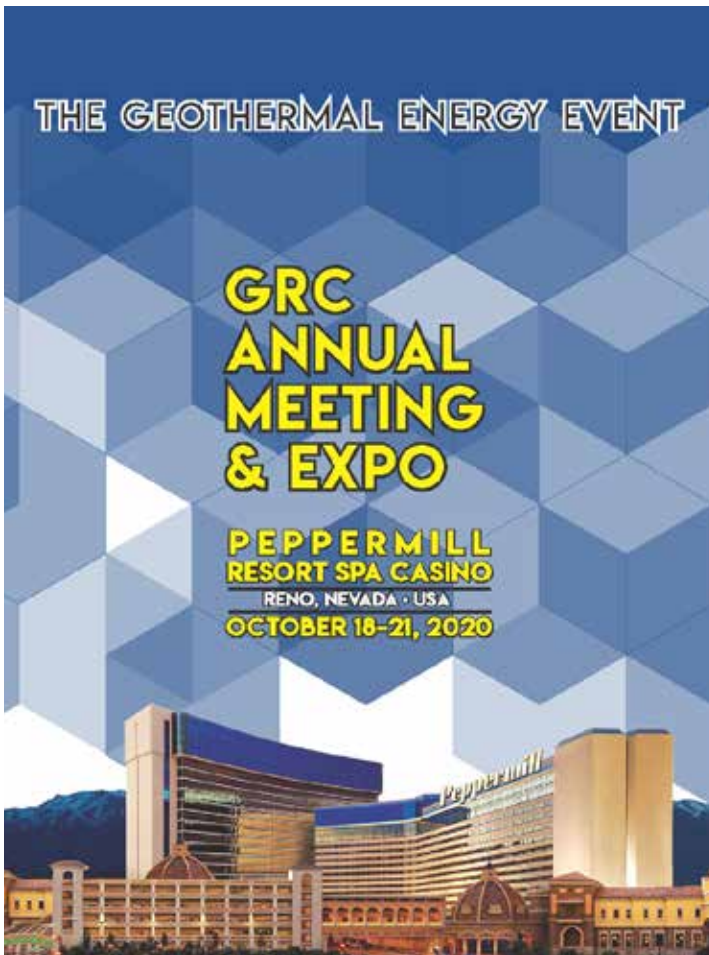
DANIEL GARZ, Idaho State University
A Disaster Response Complex for Training of Emergency
Responders in Idaho

JASON JOHNSON, Technical University of Berlin
Blockchain Technology in the Energy Sector: A Review
of the Role of Policy Makers and Regulatory Sandboxes
in Bringing the Technology into the Mainstream

KRISTIN MCGILL, Walden University
Exploring Potential Solar Consumers' Understanding
of Energy Policy Development in Hawaii

EVVAN MORTON, Arizona State University
Emissions Trading and Climate Change: The Consequences
of Pairing Old Solutions with New Problems

JOHN PETERSON, University of Idaho
Informing Electrical Grid Policy with a Nuclear
Power Plant Simulator



GAIN's mission is to provide the nuclear energy industry with access to the technical, regulatory, and financial support necessary to move new or advanced nuclear technologies toward commercialization in an accelerated and cost-effective fashion. Through private-public partnerships, GAIN connects nuclear innovators to DOE national laboratory capabilities and RD&D programs.



Collaboration Inspiring Innovation and Impact

CAES is a research, education, and innovation consortium bringing together Idaho National Laboratory, Boise State University, Idaho State University, University of Idaho, and University of Wyoming.



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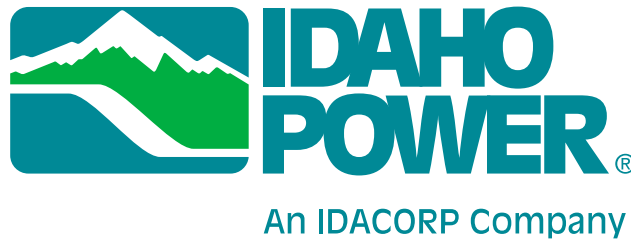
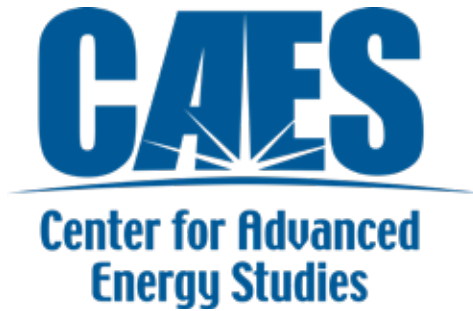
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