Resource Adequacy Summit 2026 Speakers

Todd Ramey, SVP of Markets and Digital Strategy, MISO

Todd Ramey, senior vice president of markets and digital strategy, leads MISO's markets and technology transformation efforts. Ramey manages teams focused on advancing technologies, transforming and maturing capabilities, and developing and executing market design and evaluation enhancements. This work drives reliability and helps to meet the needs of MISO's customers in the future.

Ramey has held several key positions at MISO, including managing real-time operations, as well as day-to-day transmission and generation dispatch operations. He also played a central role in developing and launching MISO's energy markets in 2005 and ancillary services in 2009. In addition to spearheading efforts to improve those markets and their operations continuously, Ramey also led MISO stakeholder activities related to market design and function, securing stakeholder support for many market enhancements.

Ramey joined MISO in 2001 from the Indianapolis Power & Light Co., where he served as Power Marketing & Generation System Operations director. Ramey has more than 30 years of experience in wholesale market design, administration, and generation and transmission system operations.

He earned a Bachelor of Science in mechanical engineering from Purdue University and a Master of Business Administration from Butler University.

Marcus Hawkins, Commissioner, PSC Wisconsin

Marcus Hawkins was appointed by Governor Tony Evers to serve as a Commissioner on April 8, 2024. Prior to joining the PSC, Marcus served as OMS Executive Director for five years and OMS Director of Member Services and Advocacy for three years. In these roles, Marcus represented state interests before the regional grid operator and Federal Energy Regulatory Commission.

Previously, Marcus was a Senior Engineer at the PSC within the Division of Regional Energy Markets. He has additional experience working at Wisconsin Energy Conservation Corporation and PA Consulting Group.

Marcus holds a bachelor's degree in nuclear engineering and a master's degree in mechanical engineering from the University of Wisconsin – Madison, where he also earned certificates in Technical Communication and Energy Analysis and Policy.

JP Carvallo, LBNL

Juan Pablo "JP" Carvallo is a Staff Scientist in the Energy Markets and Planning department at Lawrence Berkeley National Laboratory. His research areas at the Lab focus on long-term power system planning, integration and planning of grid-edge resources, reliability and resilience valuation, and resource adequacy.

Dr. Carvallo holds Ph.D. and M.S. degrees in Energy and Resources from the University of California, Berkeley, as well as P.E. and B.S. degrees in Electronics Engineering from Universidad Técnica Federico Santa Maria, Chile.

Courtney Hjaltman, Commissioner, PUC of Texas

Courtney Hjaltman serves as a Commissioner on the Public Utility Commission of Texas (PUCT), appointed by Governor Greg Abbott in 2024 and confirmed by the Texas Senate in 2025. She brings extensive experience in utility policy across the electric, water, and telecommunications sectors, with a career dedicated to public service in the State of Texas.

Prior to her appointment, Hjaltman was the Chief Executive and Public Counsel for the Office of Public Utility Counsel (OPUC), where she represented residential and small commercial consumers in proceedings before regulatory agencies, courts, and ERCOT. She also served as Deputy Legislative Director for Governor Abbott, playing a key role in advancing major policy initiatives, including legislation to strengthen the reliability and weatherization of the ERCOT power grid.

Hjaltman holds a Bachelor of Science in Corporate Communications and a Bachelor of Arts in Government from the University of Texas at Austin, and a Juris Doctor from South Texas College of Law.

Tom Butz, Senior Utility Planner, Minnesota Power

Tom Butz is a seasoned utility planning professional with extensive experience in the energy sector and active MISO Stakeholder.

Currently serving as a Utility Planner-Senior at Minnesota Power since May 2022, Tom previously worked at Power System Engineering from February 1999 to May 2022 as a Senior Planning Engineer. Earlier in his career, Tom held the position of Manager of Resource Planning at Cooperative Power from 1986 to 1999 and completed course work with the University of North Dakota.

Zach Ming, Partner and Market Design Lead, E3

Zach Ming leads E3's market design practice, with an emphasis on electricity systems operating under higher penetrations of renewable energy. He also has extensive expertise in resource planning, reliability and resource adequacy, regulatory and rate design issues, and distributed resource cost effectiveness. Recent projects include advising ERCOT and MISO on market reforms to improve reliability and developing wholesale rates to facilitate flexible green hydrogen customers in multiple jurisdictions. Mr. Ming has been the lead author on several high-profile studies including Assessment of Market Reform Options to Enhance Reliability of the ERCOT System and Long-Run Resource Adequacy Under Deep Decarbonization Pathways for California. Since joining E3 in 2013, he has combined technical acumen with a talent for providing clear results that translate into action. Mr. Ming teaches a graduate level course at Stanford University titled Electricity Economics that provides a foundation of economic principles on the topics of regulation, planning, and operation of electric utilities.

Zach enjoys being on the front lines of the most interesting topics in the industry and analyzing the rapid transformation of the electricity sector. He is passionate about creating an electricity system that is both economically efficient and environmentally sustainable.

Anna Sommer, Principal, Energy Futures Group

Anna Sommer is a Principal of Energy Futures Group in Hinesburg, Vermont. She has 20 years' experience working on a wide variety of energy planning related issues. Her primary focus is on all aspects of integrated resource planning (IRP) including capacity expansion and production costing simulation, scenario and sensitivity construction, modeling of supply and demand side resources, and review and critique of forecast inputs such as fuel prices, wholesale market prices, load forecasts, etc. Additionally, she has experience with various aspects of DSM planning including construction of avoided costs and connecting IRPs to subsequent DSM plans. Anna has had formal training on the Aurora, EnCompass, and Strategist models and has reviewed modeling performed using numerous models including Aurora, EnCompass, Capacity Expansion Model, PLEXOS, PowerSimm, PROSYM, PROMOD, RESOLVE, SERVM, Strategist, and System Optimizer. She has provided expert testimony in front of utility commissions in Indiana, Michigan, Minnesota, Montana, New Mexico, North Carolina, Puerto Rico, South Carolina, and South Dakota.

Chris Nelson, Commissioner, South Dakota PSC

Chris Nelson serves as Vice Chairman of the South Dakota Public Utilities Commission (PUC), a position he has held since his appointment in 2011 by Governor Dennis Daugaard. He was subsequently elected in 2012 to complete the term and re-elected in 2016 and 2022, achieving the highest electoral percentage ever for a contested statewide race in South Dakota. Nelson has served multiple terms as both chairman and vice chairman of the PUC, where he focuses on ensuring utility reliability, expanding broadband access, and maintaining affordable rates for South Dakotans. He is also actively involved in national regulatory organizations, serving on the Board of Directors of the National Association of Regulatory Utility Commissioners (NARUC) and representing South Dakota on the board of the Organization of MISO States.

Prior to his tenure at the PUC, Nelson served as South Dakota's Secretary of State from 2003 to 2011, following 13 years as the state's election supervisor and two years as the uniform commercial code supervisor. His leadership in election administration earned him several awards, including the 2009 Election Center's Professional Practices Program State Award. Nelson holds a bachelor's degree in animal science, with highest honors, from South Dakota State University. He resides in Pierre with his wife, Penny, and maintains a part-time cattle operation, reflecting his ongoing connection to agriculture.

Patrick Augustine, VP – Energy Practice, Charles River Associates

Patrick Augustine is a Vice President in CRA's Energy practice, with twenty years of experience in the electric industry, specializing in market analysis and strategy development within the utility and power market sectors. He leads power market and economic analysis projects in support of utilities, project developers, investors, and lenders in their energy asset development, financing, and integrated resource planning efforts. Pat has significant experience developing power market modeling approaches and integrating key market drivers such as fuel prices, environmental policy, and market design changes into economic analyses that evaluate expectations for power market prices, asset and portfolio valuations, and utility cost and risk profiles. Pat has testified before multiple state utility commissions on various electric resource planning and power market analysis topics. He holds a Master of Environmental Management from the Nicholas School of the Environment at Duke University and a BA from Harvard University.

Trey Mayeux, Manager Policy and Rates, CLECO

Trey is the Manager of MISO Policy & Rates for Cleco Power. In this role, Trey is responsible for the coordination, identification, and resolution of FERC/MISO-related issues. He also spearheads MISO policy development for the company. He represents Cleco Power in most MISO Stakeholder groups. Trey also manages the wholesale transmission rate function for Cleco Power.

During his 15-year tenure, Trey began working at Cleco as a Real-Time energy Trader in 2008 and has performed various roles in the DA/RT functions on the trading floor.

Trey has a B.S. in Business Management and Marketing from Louisiana College.

Dr. David Patton, IMM, Potomac Economics

Dr. David Patton is President of Potomac Economics, a leading firm specializing in independent market monitoring and economic analysis for the U.S. electricity and natural gas sectors. With over 30 years of experience as an energy economist, he provides expert guidance on market design, pricing, transmission planning, and regulatory policy. Under his leadership, Potomac Economics serves as the Independent Market Monitor for several major U.S. electricity markets, including the Midcontinent ISO (MISO), ERCOT, ISO New England, and the New York ISO.

Dr. Patton holds a Ph.D. in Economics and is recognized for his deep expertise in competitive market assessment, congestion management, and market power mitigation. His work plays a critical role in ensuring transparency and efficiency in wholesale energy markets, contributing to fair pricing and reliable system operations across multiple regions.

Zhi Zhou, Principal Computational Scientist, Argonne National Lab

Zhi Zhou is a Principal Computational Scientist in the Energy Systems Division at Argonne National Laboratory in Lemont, Illinois. His work focuses on computational science, artificial intelligence, and energy systems modeling, with expertise in agent-based simulation, stochastic optimization, statistical forecasting, electricity markets, and renewable energy integration.

At Argonne, Zhou leads research on advanced modeling and simulation for power systems, including electricity market operations, grid planning, and the integration of renewable energy resources. His work also encompasses forecasting of electricity demand, renewable generation, and market prices, supporting more reliable and efficient energy systems.

Zhou has published extensively in leading journals such as *IEEE Transactions on Power Systems*, *Wind Energy*, and *Energy Systems*, contributing to research on probabilistic wind forecasting, demand response, and market-based energy trading.

He holds a B.Eng. and M.Eng. in Computer Science from Wuhan University and a Ph.D. in Decision Sciences and Engineering Systems from Rensselaer Polytechnic Institute. He is a member of IEEE and is actively involved in Argonne's advanced computing and energy research initiatives.

Sarah Martz, Chair, Iowa Utilities Commission

Sarah M. Martz serves as Chair of the Iowa Utilities Commission, appointed in 2023 and named Chair by Governor Kim Reynolds in 2025. She plays an active role in national energy policy through the National Association of Regulatory Utility Commissioners (NARUC), contributing to committees and initiatives focused on energy resources, transmission, and comprehensive electricity planning.

Martz brings over a decade of utility experience, including 11 years at Alliant Energy/Interstate Power and Light Company, where she worked on power plant optimization, renewable energy research, and grid innovation, and later served as Director of Engineering for Iowa State University's utility system. Her background spans electric, gas, and water systems, along with managing large technical teams.

She holds a bachelor's degree in Mechanical Engineering from Iowa State University and a master's degree in Mechanical and Aerospace Engineering from the University of California, Irvine, and is a licensed professional engineer.

Brittany Andrus, Senior Resource Adequacy Analyst, Western Electricity Coordinating Council

Brittany Andrus is a Senior Resource Adequacy Analyst at the Western Electricity Coordinating Council (WECC), based in Salt Lake City, Utah. She specializes in assessing the adequacy of energy resources across the Western United States to support a reliable electricity supply.

Andrus brings decades of experience in energy policy, regulatory analysis, and utility operations, with deep expertise in the Pacific Northwest energy sector. Prior to joining WECC, she served as a Senior Utility and Energy Analyst at the Oregon Public Utility Commission and spent 17 years at the Bonneville Power Administration, focusing on energy analysis and planning.

Her work has included advising on renewable energy standards, emissions policies, and integrated resource planning, as well as contributing to legislative and regulatory proceedings in Oregon. Andrus holds a degree from the Portland State University School of Business and is recognized for her contributions to resource adequacy planning and clean energy policy.

Jordan Bakke, Director of Strategic Insights and Assessments, MISO

Jordan Bakke is the Director of Strategic Insights and Assessments at the Midcontinent Independent System Operator (MISO), where he leads efforts to evaluate future grid challenges and develop strategies related to resource adequacy, transmission planning, and market evolution. He also serves as Chair of the Eastern Interconnection Planning Coordinators (EIPC) Executive Committee for the 2025–2026 term.

With more than 15 years at MISO, Bakke has held a range of leadership roles in policy studies and strategic initiatives, focusing on the impacts of public policy, emerging technologies, and changing stakeholder needs on the electric grid. His work supports long-term planning and reliability across MISO's multi-state footprint.

Bakke holds a Bachelor of Science in Electrical Engineering from North Dakota State University and an MBA from the University of St. Thomas. He has represented MISO in national forums, including testimony before the Federal Energy Regulatory Commission, and is recognized for his leadership in advancing large-scale grid planning and coordination across the Eastern Interconnection.

Michael Hagerty, Principal, Brattle Group

Mr. Hagerty specializes in planning and regulatory matters related to the electric power system in an increasingly decarbonized future.

His expertise includes long-term generation and storage resource planning, transmission planning and development, and electrification of transportation and heating. Mr. Hagerty has experience working on matters related to electric vehicle adoption and system impact analysis; renewable resource, generation, and storage asset valuation; decarbonization policies; and transmission benefit-cost analysis.

He has assisted a wide range of stakeholders – including electric utilities, generation and transmission developers, state agencies and commissions, automakers, and regional transmission organizations (RTOs) – in understanding and evaluating strategic questions related to the clean energy transition. This has included planning the buildout of the transmission network, assessing the future generation resource mix, and analyzing the pace and impact of electric vehicle (EV) and heating electrification adoption. He has also forecasted scenarios for the deployment of EV charging infrastructure necessary to meet increasing demand and customer adoption of greenhouse gas-reducing technologies, such as electric heat pumps, energy efficiency, and rooftop solar.

Mr. Hagerty has submitted testimony to state and federal commissions related to generation resource additions to achieve decarbonization goals, electric vehicle infrastructure needs, transmission planning processes and benefits analysis, and electricity market design. For the US Department of Energy, he has reviewed and outlined major issues facing the country's electric power infrastructure.

Brad Pope, Director of Legal and Regulatory Affairs, OMS

Brad Pope serves as the Director of Legal and Regulatory Affairs at the Organization of MISO States (OMS), a role he has held since June 2022. In this capacity, he provides legal guidance and supports OMS's engagement in regulatory proceedings, particularly those involving the Midcontinent Independent System Operator (MISO) and the Federal Energy Regulatory Commission (FERC). His work is pivotal in shaping OMS's positions on transmission planning, resource adequacy, and market design.

Prior to joining OMS, Brad spent over six years at the Indiana Utility Regulatory Commission (IURC), including as an Administrative Law Judge, where he gained extensive experience in utility regulation and energy policy. His background equips him with a deep understanding of the legal and regulatory challenges facing state commissions and regional transmission organizations. Brad earned his Juris Doctor from the Indiana University Robert H. McKinney School of Law, where he also obtained a Certificate in Energy & Environmental Law. He holds a Bachelor's degree in Philosophy from Purdue University.

Audun Botterud, Principal Energy Systems Engineer, Argonne National Lab

Audun Botterud is a Principal Energy Systems Engineer in the Center for Energy, Environmental and Economic Systems Analysis. His research focuses on modeling and analysis of electricity markets and power systems, using a variety of mathematical optimization and simulation methods.

After joining Argonne in 2005, Botterud contributed to the development of the Electricity Market Complex Adaptive System (EMCAS) model and agent-based simulator of restructured electricity markets. More recently, his work has focused on challenges related to the integration of renewable energy (wind, solar, hydro) and energy storage into the electric power grid. He has led projects on improved wind power forecasting and better use of forecasts in operational decisions, electricity market design under high shares of renewable energy, resource adequacy and flexibility in low-carbon electricity markets, and energy storage optimization under a changing power grid.

Since 2016, Botterud has a co-appointment as a Principal Research Scientist in Laboratory for Information and Decision Systems (LIDS) at Massachusetts Institute of Technology. Previous to his tenure at Argonne, Botterud was part of SINTEF Energy Research in Trondheim, Norway.

Adria Brooks, Director of Transmission Planning, Grid Strategies

Dr. Adria Brooks is Director of Transmission Planning at Grid Strategies, where she helps clients achieve well-designed regional transmission systems. Sitting at the intersection of engineering and policy, Adria has over 15 years of public service experience at the academic, utility, state, and federal levels. Her expertise includes power system modeling, industry practices, wholesale electricity markets, state utility regulation, grid technologies, energy justice and labor concerns.

Prior to joining Grid Strategies, Adria served as a Senior Technical Advisor in transmission planning with the U.S. Department of Energy's Grid Deployment Office. Her portfolio at DOE included national generation and transmission assessments, system reliability studies, renewable energy integration, large load integration, grid-enhancing technologies, transmission permitting, and energy justice. Earlier in her career, Adria served as a transmission planning engineer at the Public Service Commission of Wisconsin. Adria holds both an M.S. and Ph.D. in electrical engineering with a focus in energy policy and environmental resources from the University of Wisconsin—Madison. She holds a B.S. in engineering physics from the University of Arizona. At heart, Adria is a power grid and renewable energy nerd who is happiest when backpacking the nation's forests.

Sarah Freeman, Principal, Regulatory Assistance Project and Council of Commissioners

Sarah Freeman has over 25 years' experience in utility law and policy. In 2025, Sarah completed nine years of service at the Indiana Utility Regulatory Commission, where she regulated electric, gas, water and wastewater utilities. She joined RAP in 2025 as a principal and is a member of the Council of Commissioners.

As Commissioner, Sarah held leadership roles with the National Association of Regulatory Utility Commissioners, the Midcontinent Independent System Operator (MISO), and the Organization of MISO States. Before her appointment to the Indiana Utility Regulatory Commission, Sarah served the people of the Hoosier State in roles across all three branches of government. She started her legal career as a clerk to the Honorable Frank Sullivan of the Indiana Supreme Court and then represented the state of Indiana as a deputy attorney general in proceedings before state and federal trial and appellate courts. From 2000 to 2016, Sarah provided legal counsel to and drafted legislation for the 150 members of the Indiana General Assembly, focusing on utility and transportation law. Sarah holds degrees in French, psychology, and political science from Indiana University – Bloomington and a juris doctorate from the Maurer School of Law at Indiana University.