

## **The Aspen Institute Energy Policy Forum**

July 14-17, 2017 - Aspen, CO

### **PARTICIPANT BIOGRAPHICAL INFORMATION**

#### **Ernest Moniz (*Co-Chair*)**

##### **Professor, MIT; Former US Secretary of Energy**

Ernest J. Moniz served as the thirteenth United States Secretary of Energy from 2013 to January 2017. As Secretary, he advanced energy technology innovation, nuclear security and strategic stability, cutting-edge capabilities for the American scientific research community, and environmental stewardship. He placed energy science and technology innovation at the center of the global response to climate change and negotiated the Iran nuclear agreement alongside the Secretary of State. Dr. Moniz joined the Massachusetts Institute of Technology faculty in 1973 and was Founding Director of the MIT Energy Initiative. He is the Cecil and Ida Green Professor of Physics and Engineering Systems emeritus and Special Advisor to the MIT President. He served on Boards of numerous companies, non-profits and government agencies in the energy and security arenas. Dr. Moniz received a Bachelor of Science degree summa cum laude in physics from Boston College, a doctorate in theoretical physics from Stanford University, and eight honorary doctorates. He received the Distinguished Public Service Medal of the Department of Defense.

#### **Anne Pramaggiore (*Co-Chair*)**

##### **President & CEO, ComEd**

Anne Pramaggiore is president and CEO of ComEd, an electric utility company delivering electricity to 3.8 million customers in Chicago and Northern Illinois. Pramaggiore joined ComEd in 1998 to work on the company's transition to competitive energy markets under the Illinois Consumer Choice Law of 1997. In her role as ComEd's lead lawyer and as head of Regulatory Policy, she led major policy work around the restructuring of the Illinois electric industry. In 2009, Pramaggiore was appointed as ComEd's COO and became responsible for overseeing day-to-day operations on the electric grid and in customer operations. In that role, she led the company's effort to set the legislative framework for ComEd's smart grid build-out, a leading model nationally for modernizing one of the largest utility systems in the country. Pramaggiore was promoted to her current position in February 2012. She is the first female to hold the post of president and CEO at the electric utility. Pramaggiore serves as a board member of Chicago Federal Reserve Board, Motorola Solutions, Inc., Babcock and Wilcox Enterprises and several civic and community organizations. She is a 1989 graduate of DePaul University School of Law and served as editor-in-chief of the school's Law Review. She has a bachelor's degree in Communications and Theater from Miami University in Oxford, Ohio.

**Anne Slaughter Andrew**  
**Board Chair, TerViva**

Anne Slaughter Andrew was appointed by President Obama to serve as the first woman U.S. Ambassador to Costa Rica (2010-2013). Since leaving the State Department, former Ambassador Andrew has served as Chairman of TerViva, LLC, an agro-technology company developing environmentally sustainable crops for food and fuel. In addition, former Ambassador Andrew serves on the Board of Directors of Ad Astra Rocket Company in Houston, Texas and as an advisor to a number of start-up clean energy businesses. In addition to serving on the Board of Directors of Earth University, former Ambassador Andrew also serves on the Board of the Natural Resources Defense Counsel (NRDC), Purdue University – Global Affairs Strategic Advisory Council and the Telluride Foundation (Colorado). Former Ambassador Andrew is an active member of the Council of American Ambassadors.

**Beth Bartholomew**  
**Principal Director, Smart Grid Services, Accenture**

Beth is a strategic advisor and implementer of transformational initiatives within the North American utilities industry. For the past 30 years, she has collaborated with executives and their teams to move from strategy to action – applying innovative ideas and processes in practical, sustainable ways. She is experienced in conducting Board-directed and public-facing assessments and leading complex, enterprise-wide initiatives. Currently, within Accenture, Beth is leading projects with several of the largest utilities in North America in the areas of: emergency management maturity, operational capabilities planning and market growth strategy. Prior to joining Accenture in April, via the acquisition of Davies Consulting, where she was a partner, Beth was the client services executive for several leading public sector consultancies. In those roles, she advised C-level executives across the federal government in planning and executing programs in the areas of: information technology management, homeland security, and cross-agency systems consolidation. Beth holds a Bachelor of Arts degree from Georgetown University, where she was a Baker Scholar, and a Master of Business Administration from The Darden School, University of Virginia.

**Lisa Barton****Executive Vice President, AEP Transmission; President & COO, AEP Transmission Holding Company**

President and COO, AEP Transmission Holding Company, Executive Vice President, AEP Transmission American Electric Power Co., Inc. Lisa M. Barton oversees operations of AEP Transmission Holding company with subsidiary operations. As executive Vice President, responsible for the company's Transmission organization which manages an asset base of 18Billion and currently oversees 60% of the corporation's annual capex. Her organization is the largest owner operator and developer of electric transmission in North America and manages the largest transmission network in North America. Responsibilities include oversight of the company's transmission field services, engineering, construction, planning, system operations and financial services. She is also responsible for overseeing AEP's corporate Safety & Health program. Barton is a board member of Transource Energy, a joint venture with Great Plains Energy, which is the competitive transmission development arm of both companies. She also serves on the board of directors of Electric Transmission America (ETA) and Electric Transmission Texas (ETT). At AEP, she serves as an executive sponsor of the Pride Partnership Employee Resource Group. Barton earned a bachelor's in electrical engineering from Worcester Polytechnic Institute in Worcester, Mass., and a juris doctorate degree from Suffolk University Law School in Boston, Mass. She completed the Harvard Mediation Program for the Instruction of Lawyers, the Executive Program-Darden School of Business at the University of Virginia, the Nuclear Reactor Technology Program at MIT, and was an International Women's Foundation Fellow and is a member of C200.

**Hannah Bascom****Head of Regulated Energy Partnerships, Nest Labs**

Hannah Bascom leads Regulated Energy Partnerships at Nest Labs, where she advises her clients on energy efficiency, demand response, customer engagement and connected home strategies. Over the past four years, she and team have grown Nest's customer portfolio to nearly 100 Energy Partners in North America. Prior to joining Nest, Hannah worked in the utility industry for a number of years, first at Pacific Gas & Electric Company and later as part of Ernst & Young's Energy and Utilities Practice. At PG&E she held a number of roles, including leading the Customer Strategy and Planning organization and building and overseeing PG&E's energy efficiency program governance process. At EY, Hannah focused on innovation, product optimization and customer experience strategy development for utilities. She holds an MBA from the University of Chicago, Booth School of Business and a BA with Honors from Brown University.

**Angela Becker-Dippmann****Democratic Staff Director, Senate Committee on Energy and Natural Resources**

Angela Becker-Dippmann became the Democratic Staff Director for the Senate Energy and Natural Resources Committee in January 2015, where she has led legislative, policy development and oversight efforts for Ranking Member Maria Cantwell (D-WA). Previous to her current role, Becker-Dippmann served from 2011 to 2014 as Senior Policy Advisor in the Pacific Northwest National Laboratory's (PNNL's) Energy and Environment Directorate, where she helped shape the Lab's strategic initiatives across a range of energy technology businesses. Key areas of focus included advancing PNNL's future power grid initiatives, which aim to deliver the next generation of technologies in grid operations, energy storage, demand management, buildings integration and cyber security. Previous positions also include Executive Vice President at McBee Strategic Consulting, a Washington, D.C.-based consulting and public affairs firm; and eight years spent in a variety of other senior staff positions in the U.S. Senate, including Professional Staff Member for the Senate Energy Committee under then-Chairman Jeff Bingaman (D-NM), and Communications and Policy Director for Senator Cantwell. Becker-Dippmann holds a bachelor's degree from Carleton College in Northfield, Minnesota.

**Roger Berliner****Council President, Montgomery County Council**

Montgomery County Council President Roger Berliner has been intimately involved in the intersection of energy, environment, and utility law for the past 38 years as a staffer, lawyer, and public official. As a staffer, Mr. Berliner served as Director of Congressional Liaison for the Federal Energy Regulatory Commission; energy advisor and Legislative Director to U.S. Senator Howard Metzenbaum. As a lawyer, Mr. Berliner has served a wide range of energy interests, including the Province of Alberta; the County of Los Angeles; the Los Angeles Area Chamber of Commerce; the Nevada utilities; the Sacramento Municipal Utility District; cogenerators; solar generation facilities; and the Canadian natural gas industry. As a member of the Montgomery County Council and Chair of the Council's Transportation, Infrastructure, Energy & Environment Committee, Councilmember Berliner is the lead sponsor of legislation that will create the first local Green Bank. He has also sponsored and passed the first county "benchmarking" law; commercial and residential PACE laws; a "green" angel investor tax credit; legislation that provided property tax credits for energy conservation and solar installations.

**Aaron Berndt****Business Development, Nest Labs**

Aaron Berndt is Head of West Coast Energy Partnerships at Nest, where he works with utility partners to develop customer-focused energy programs that leverage Nest products. Prior to joining Nest, Aaron was a leader in PG&E's Customer Energy Solutions team, with responsibility for the delivery of key products and programs in PG&E's portfolio. Aaron holds a Bachelor of Mechanical Engineering from the University of Minnesota and an M.B.A from U.C. Berkeley Haas School of Business.

**Jason Bordoff****Professor and Founding Director, Center on Global Energy Policy, Columbia University**

Jason Bordoff joined the Columbia faculty after serving until January 2013 as Special Assistant to the President and Senior Director for Energy and Climate Change on the Staff of the National Security Council, and, prior to that, holding senior policy positions on the White House's National Economic Council and Council on Environmental Quality. One of the world's top energy policy experts, he joined the Administration in April 2009. At Columbia's School of International and Public Affairs, Jason is a professor of professional practice and serves as founding Director of SIPA's Center on Global Energy Policy. Prior to joining the White House, Jason was the Policy Director of the Hamilton Project at the Brookings Institution. He is a member of the Council on Foreign Relations and the National Petroleum Council, a consultant to the National Intelligence Council, and serves on the boards of Winrock International, the New York Energy Forum and the Association of Marshall Scholars. Jason graduated with honors from Harvard Law School, holds an MLitt degree from Oxford University where he studied as a Marshall Scholar, and a BA magna cum laude and Phi Beta Kappa from Brown University.

**Sam Brothwell****Senior Analyst, Energy Income Partners LLC**

Sam Brothwell is a Senior Analyst covering pipeline and utility companies with Energy Income Partners, a Westport, CT-based investment advisory company with \$5.9 billion of assets under management. Previously, Sam headed utility research at Bloomberg LP and assisted in the restructuring of Salt Lake City-based Questar Corporation as Vice President, Corporate Planning and Investor Relations. From 1997-2009 Sam covered the global electricity and natural gas industries as a senior equity analyst with Wells Fargo/Wachovia Capital Markets, LLC, and Merrill Lynch in New York. Sam also followed the US and Latin American electric utilities as a credit research with Moody's Investors Service. He began his energy career as a Financial Analyst with PNM Resources in Albuquerque. Sam is a CPA, a 1983 graduate of the University of New Mexico, and has participated in the Aspen Institute's Energy forums since 2006.

**Nora Mead Brownell****Co- Founder, Espy Energy Solutions, LLC**

Ms. Brownell is co-founder and Principal of ESPY Energy Solutions, LLC and also serves on the boards of National Grid, PLC, Enbridge, and Tangent. In May 2001, Ms. Brownell was confirmed as commissioner of the Federal Energy Regulatory Commission where she served until the expiration of her term in June 2006. During her time as commissioner, Ms. Brownell was an advocate for the development of regional transmission organizations, national energy infrastructure development and markets for wholesale power. Prior to her time as commissioner, she served as a member of the Pennsylvania Public Utility Commission from 1997 to 2001. She also serves on the advisory boards of Morgan Stanley Infrastructure and TerViva Bioenergy. Previously, Ms. Brownell served on the boards of ONCOR, New World Capital, and Converge.

**James Bushnell****Professor, Department of Economics, University of California, Davis**

James Bushnell is a Professor in the Department of Economics at the University of California, Davis, and a Research Associate of the National Bureau of Economic Research. Prior to joining UC Davis, he spent 15 years as the Research Director of the University of California Energy Institute in Berkeley, and two years as the Cargill Chair in Energy Economics at Iowa State University. Prof. Bushnell has been actively involved in energy and environmental policy for two decades. Since 2002, he has served as a member of the Market Surveillance Committee (MSC) of the California Independent System Operator (CAISO). He has also advised the California Air Resources Board in several capacities, including as a member of the Emissions Market Assessment Committee from 2012 to 2014.

**Sandra Byrd****Vice President, Public Affairs and Member Services, Electric Cooperatives of Arkansas**

Sandra Byrd has 32 years experience in public utility law and regulation, energy policy development, and utility management. She currently serves as Vice President of Public Affairs & Member Services for Arkansas Electric Cooperative Corporation, which is the Generation & Transmission Cooperative serving the 17 distribution cooperatives in Arkansas. Prior to that, Sandra served as Chairman and Commissioner of the Arkansas Public Service Commission, and was very active in national and regional electricity policy matters. During her years on the Arkansas commission, Sandra served on the NARUC Board of Directors; Chaired NARUC's Critical Infrastructure Committee; was President of the Mid-American Regulatory Commissioners; and served on the Electricity Committee. She organized the development of the Regional State Committee for the Southwest Power Pool RTO and served as Vice President; served as a member of the National Council on Electricity Policy; was appointed to the EPRI Advisory Board; and served on the EPRI Research Advisory Committee. Sandra has been a member of the DOE-EPA State Energy Efficiency Action Executive Committee for the past 11 years, served as Member and Chair of the Center for Public Utilities Advisory Council of New Mexico State University, and is a member of the Harvard Electricity Policy Group.

**Kateri Callahan****President, Alliance to Save Energy**

Kateri Callahan brings more than 25 years of experience in policy advocacy, fundraising, coalition building, and organizational management to her position as the president of the Alliance to Save Energy. The Alliance, a premier non-government organization headquartered in Washington, D.C., has worked for nearly four decades to advance energy efficiency worldwide to achieve a healthier economy, a cleaner environment, and greater energy security.

**Paul Chodak****Executive Vice President, Utilities, American Electric Power**

Paul Chodak is executive vice president – Utilities, responsible for the financial operational result of all AEP utility operating companies. From 2010-2016, Chodak was president and chief operating officer for Indiana Michigan Power (I&M), headquartered in Fort Wayne. Prior to that, Chodak served as president and chief operating officer for SWEPCO, an operating company that serves over 439,000 customers in Louisiana, Arkansas and northeast Texas. Chodak began his career with AEP in 2001 as a senior project manager. In 2002, he was named director of regional engineering for regulated generation and was then named managing director, corporate technology development in 2003. In 2004, Chodak led efforts to implement AEP's multi-billion dollar environmental compliance plan as director, environmental programs. In early 2007, Chodak was named director, new generation and led the construction of several natural gas fueled power plants, as well as AEP's integrated gasification combined cycle (IGCC) program. Prior to joining AEP, Chodak was a staff scientist at Los Alamos National Laboratory conducting research on technology and policy issues concerning nuclear power and proliferation risks. Chodak served more than seven years in the U.S. Navy as a submarine officer. He earned a doctorate degree in nuclear engineering from MIT in 1996 and completed MIT's Reactor Technology Course for Utilities Executives in 2011. He holds a master's degree in civil engineering from Virginia Polytechnic Institute and State University. Chodak graduated from the Harvard Business School Advanced Management Program in 2015.

**Karin Corfee****Managing Director, Navigant Consulting, Inc.**

Karin Corfee is a Managing Director in Navigant's Energy Practice and is based in the San Francisco, California office. Key areas of expertise include strategic planning, renewable energy, energy efficiency and distributed generation. Ms. Corfee currently serves as the global leader of Navigant's energy efficiency and demand side management team. The team is comprised of engineers, economists, and social scientists focused on a wide range of clean energy services for utilities, government agencies, investors, and manufacturers. Recently, Karin has conducted numerous high profile studies examining the impacts of distributed energy resources on the grid. Ms. Corfee has also assisted in numerous strategic planning engagements; notable accomplishments are the CAISO Five-Year Strategic Plan, California Energy Efficiency Strategic Plan and New Jersey Renewable Energy Plan. Ms. Corfee has recently focused on examining new business models related to distributed generation and clean energy, including energy efficiency financing initiatives and distributed solar third-party ownership structures. Ms. Corfee holds an M.S. in Civil Engineering from Stanford University, and a B.S. in Political Economy of Natural Resources/Energy Resources from the University of California at Berkeley.

**Nelson W. Cunningham****President & Co-founder, McLarty Associates**

Nelson W. Cunningham is President and Co-founder of McLarty Associates. Prior to co-founding McLarty Associates in 1998, Mr. Cunningham served in the White House as Special Advisor to President Clinton on Western Hemisphere affairs and General Counsel at the White House Office of Administration. He previously served as General Counsel of the Senate Judiciary Committee, under then-Chairman Joseph R. Biden. Before moving to Washington, Mr. Cunningham served as an Assistant United States Attorney in the Southern District of New York, hired by Rudolph Giuliani.

**Thomas Edgar****Professor, The University of Texas at Austin**

Professor Thomas F. Edgar, a chemical engineer who has been on The University of Texas at Austin faculty for more than 40 years, serves as the director of the Energy Institute. Edgar holds the George T. and Gladys H. Abell Chair in Chemical Engineering. He received his B.S. in chemical engineering from the University of Kansas and the Ph.D. from Princeton University. Edgar has concentrated his academic work in process modeling, control, and optimization. He has published over 450 articles and book chapters and has supervised the thesis research of over 45 M.S. and 80 Ph.D. students. Edgar has co-authored the textbooks *Coal Processing and Pollution Control Technology* (Gulf Publishing, 1983), *Optimization of Chemical Processes* (McGraw-Hill, 2001) and *Process Dynamics and Control* (Wiley, 2016). He was President of the American Institute of Chemical Engineers (AIChE) in 1997. He is board secretary of Pecan Street Inc. in Austin, Texas, which deals with renewable energy and smart grids, and on the board of Clean Energy Smart Manufacturing Innovation Institute(DOE). He is a member of the National Academy of Engineering. Dr. Edgar's current energy research covers renewable energy, combined heat and power, energy storage, and energy-efficient manufacturing. Edgar teaches a popular engineering elective, "Energy Technology and Policy".

**Shelley Fidler****Principal, Governmental Affairs, Energy & Environmental Policy, Van Ness Feldman**

Shelley is a principal with the law and policy firm, Van Ness Feldman, working in the areas of energy, environment and natural resources. A twenty year veteran of the staff of former Congressman Phil Sharp followed by a six year stint as Chief of Staff and climate policy staff at the Clinton Administration Council on Environmental Quality - Shelley now serves the private sector - finding solutions to complex law and regulatory challenges at the intersection of business and public policy.

**Emily Fisher****Vice President, Legal, Edison Electric Institute**

Emily Sanford Fisher is the Vice President, Law for the Edison Electric Institute, the trade association for investor-owned electric companies. Emily has focused on legal and regulatory issues related to climate change, environmental performance, end-use efficiency and distributed resources. Prior to coming to EEI, Emily was a Foreign Service Officer with the U.S. Department of State, serving at the Embassies in Thailand and Colombia. She also represented electric companies and independent power producers in regulatory proceedings before FERC and the Securities and Exchange Commission.

**Peter Fox-Penner****Director, Institute for Sustainable Energy, Questrom School of Business, Boston University**

Peter Fox-Penner is a Professor of Practice in the Questrom School of Business and the Director of Boston University's Institute for Sustainable Energy. His research and writing interests are in the areas of electric power strategy, regulation, and governance; energy and climate policy; and the relationships between public and private economic activity, including corporate social responsibility. He is the author of *Smart Power*, a book widely credited with foreseeing the future transformation of the power industry now used and cited all over the world, as well as other books in this area. He teaches courses on sustainable energy and electric power in the Questrom School of Business. Peter also holds a part-time appointment as Chief Strategy Officer for Energy Impact Partners, a private equity firm, and is an academic advisor to the Brattle Group, an economic and financial consulting firm where he was previously a principal, Director, and Chairman for 14 years. He is also on the advisory board of EOS Energy Storage and Sunshine Soldiers.

**Julio Friedmann**



### **Senior Advisor, Lawrence Livermore National Laboratory**

Dr. Julio Friedmann is a senior advisor at the Lawrence Livermore National Laboratory, where he serves as the Lab's chief expert in energy technologies and systems. He recently served as Principal Deputy Assistant Secretary for the Office of Fossil Energy at the Department of Energy where his portfolio included R&D and programs in Clean Coal and Carbon Management, Oil and Gas systems, international engagements in clean fossil energy, and inter-agency engagements within the US government. He is one of the most widely known and authoritative experts on carbon capture and sequestration, CO2 utilization, and negative emissions technologies. He has testified before the US House, Senate, and several state legislatures, published in Foreign Affairs, Financial Times, and the New York Times. Dr. Friedmann received his Bachelor of Science and Master of Science degrees from the Massachusetts Institute of Technology (MIT), followed by a Ph.D. in Geology at the University of Southern California. After graduation, he worked for five years as a senior research scientist in Houston, first at Exxon and later ExxonMobil. He next worked as a research scientist at the University of Maryland.

### **Jeffrey Gleeson**

#### **Product Manager, Energy Services, Nest Labs**

Jeff Gleeson is a product manager at Nest Labs focused building thoughtful energy services for the connected home. Prior to joining Nest, Jeff was a leader in PG&E's Customer Energy Solutions team, with responsibility for the delivery of key products and programs in PG&E's energy efficiency portfolio. Jeff holds a BS in Civil Engineering from Cal Poly San Luis Obispo and an MBA from UC Davis, where he was a graduate student researcher for the Energy Efficiency Center. Together with his wife and daughter, Jeff resides in the San Francisco Bay Area.

### **Paula Gold-Williams**

#### **President & CEO, CPS Energy**

Paula Gold-Williams is President & Chief Executive Officer (CEO) of CPS Energy. As President & CEO, Paula leads its more than 3,000 team members with the vision she has coined "People First," whereby CPS Energy is evolving its efforts to create and deliver value to its employees, customers and community into a new age of energy solutions. Over her 12 years at CPS Energy, she has progressively served as Controller & Assistant Treasurer; VP & Chief Administrative Officer (CAO) – Organizational Excellence & Shared Services; Executive Vice President (EVP), Chief Financial Officer (CFO) & Treasurer; and Group EVP – Financial & Administrative Services, CFO & Treasurer, ultimately overseeing all enterprise financial functions, while taking on the strategic oversight for People & Culture, Enterprise Safety & Health, Supply Chain, Facilities, Enterprise Information Technology, and Physical & Cyber Security. Paula also serves on the Executive Committees of the San Antonio Chamber of Commerce and the San Antonio Economic Development Foundation (SAEDF). Paula was inducted into the San Antonio Women's Hall of Fame in 2017. Paula has an Associate Degree in Fine Arts from San Antonio College. She has a BBA in Accounting from St. Mary's University, as well as a Finance & Accounting MBA from Regis University in Denver, Colorado. She became a Certified Public Accountant (CPA) while working for her first professional employer, the then Big 8 accounting firm of Ernst & Whinney.

**Sekita Grant****Policy and Impact Strategy Manager, Emerson Elemental**

Sekita Grant works as the Policy and Impact Strategy manager for Emerson Elemental. In this capacity, Sekita helps to catalyze new approaches to scaling environmental and social good through climate and environment policies. Prior to Emerson Elemental, Sekita worked at the Greenlining institute as Legal Counsel for their Environmental Equity team. In that role, she worked to make energy and climate policies in California equitable and beneficial to communities of color. She came to Greenlining from Business for Social Responsibility, a California nonprofit where she worked as a climate and energy sustainability consultant to large corporations. Prior to that, Sekita worked as a policy advisor at the California Energy Commission in Sacramento. There she served as lead advisor to the chair on climate, transportation, and legal matters.

**Kim Greene****Executive Vice President and COO, Southern Company**

Kim Greene assumed her current position in March 2014. Prior to being named executive vice president and chief operating officer, Greene was President and Chief Executive Officer of Southern Company Services, Inc. Prior to rejoining Southern Company in April 2013, Greene was executive vice president and chief generation officer of Tennessee Valley Authority (TVA). While at TVA, she served as chief financial officer, executive vice president of financial services and chief risk officer, as well as, group president for strategy and external relations. Greene began her career at Southern Company in 1991 and held positions of increasing responsibility in the areas of engineering, strategy, finance and wholesale marketing, including serving as senior vice president and treasurer of Southern Company Services, Inc. from 2004 to 2007.

**Judi Greenwald****Principal, Greenwald Consulting**

Judi Greenwald is the Principal of Greenwald Consulting. Until January 2017, she was the Deputy Director for Climate, Environment, and Energy Efficiency in the U.S. Department of Energy's Office of Energy Policy and Systems Analysis, and the Senior Advisor to the Secretary for Climate Change. She has over 30 years of experience working on energy and environmental policy. As Vice President for Technology and Innovation at the Center for Climate and Energy Solutions (formerly the Pew Center on Global Climate Change), she oversaw the analysis and advancement of technology, business, state, regional and federal innovation in transportation, electric power, buildings, and industry. She co-founded the National Enhanced Oil Recovery Initiative; advised state and regional climate initiatives; served on the Advisory Council of the Electric Power Research Institute, National Academy of Sciences panels studying vehicles and fuels, the White House Climate Change Task Force, the U.S. Congress Energy and Commerce Committee staff, working on the 1990 Clean Air Act Amendments and the 1992 Energy Policy Act; and worked at the U.S. Nuclear Regulatory Commission and the Environmental Protection Agency. She received a B.S.E., cum laude, from Princeton University, and an M.A. in Science, Technology and Public Policy from George Washington University.

**Dave Grossman (*Rapporteur*)**

**Principal, Green Light Group**

Dave Grossman is the principal of Green Light Group, a consulting practice specializing in research, analysis, writing, and strategy on sustainability issues, with a particular focus on climate change and clean energy. In his consulting, Dave has helped numerous clients – including non-profits, philanthropic foundations, trade associations, corporations, and intergovernmental organizations – transform complex concepts and processes into logical, organized, and clear results. Dave has been studying and working in environmental policy, politics, law, and organizing since the mid-1990s. Prior to founding Green Light in 2006, he managed projects for the International Network for Environmental Compliance and Enforcement (INECE), worked in the 2004 presidential campaign cycle, served as a law clerk for the Chief Justice of the Alaska Supreme Court, and was a grassroots organizer on endangered species and fisheries issues with the National Audubon Society (through Green Corps). In addition to numerous reports and other publications produced through his consulting, Dave has also published on topics such as the feasibility of tort-based climate change litigation and theories of why states and firms comply with law. He graduated summa cum laude from Princeton University with a degree in Politics and received his law degree from Yale Law School.

**Jason Grumet**

**President, Bipartisan Policy Center**

Jason Grumet, founder and president of the Bipartisan Policy Center, is respected on both sides of the aisle for his innovative approach to improving government effectiveness and impacting public policy. Over the last decade, BPC has combined the best ideas from both parties to promote health, security, and opportunity for all Americans. Under Grumet's leadership, BPC has harnessed the power of collaboration to advocate for principled and politically viable policy solutions to major policy challenges facing our country. In 2001, Grumet founded and directed the National Commission on Energy Policy, which produced a comprehensive set of policy recommendations many of which were incorporated into the 2005 Energy Policy Act. Grumet led the Northeast States for Coordinated Air Use Management where he expanded the organization's technical and advocacy capabilities and increased its presence in national policy discussions. Grumet regularly authors commentaries and editorials in national publications, as well as participates in various broadcast interviews. He frequently speaks at national forums, testifies before Congress, and is regularly sought out by policymakers and business leaders. Grumet's first book, *City of Rivals: Restoring the Glorious Mess of American Democracy*, was released in September 2014. Grumet received a Bachelor of Arts from Brown University and J.D. from Harvard University. He lives in Bethesda, Maryland with his wife and three children.

**Jeff Guldner****Executive Vice President, Public Policy, Arizona Public Service Company; General Counsel, APS and Pinnacle West Capital Corporation**

Jeff Guldner is executive vice president, public policy, for Arizona Public Service Company (APS) and general counsel of APS and Pinnacle West Capital Corporation. Based in Phoenix, APS is Arizona's largest electric company and serves nearly 1.2 million customers across the state. Guldner is responsible for leading the company's regulatory and government affairs activities at the local, state and federal levels. As general counsel, he also oversees all facets of the company's legal affairs. Prior to joining APS in 2004, Guldner was a partner in the Phoenix office of Snell & Wilmer LLP where he practiced public utility, telecommunications and energy law. His practice focused primarily on utility rate and regulatory matters, including rate cases, power plant and transmission line siting, complex energy project finance and utility mergers. Before practicing law, Guldner served in the United States Navy, and was an assistant professor of naval history at the University of Washington. Guldner actively serves on community boards including the Arizona Theater Company, the Morrison Institute for Public Policy, and the East Valley Partnership. Guldner earned a juris doctor degree, magna cum laude, from the Arizona State University College of Law and a Bachelor of Arts degree from the University of Iowa.

**Julia Hamm****President & CEO, Smart Electric Power Alliance**

Julia Hamm has 20 years of experience advising and collaborating with utilities, technology companies, and government agencies on renewable energy and energy efficiency strategies and programs. The knowledge and experience she has gained as the President and CEO of SEPA since 2004 makes her one of the world's foremost experts on the nexus between utilities and distributed energy resources. Julia guides and oversees all of SEPA's research, education, and collaboration activities for its 1,100 member companies. Julia has led the organization through significant expansion in recent years, including rebranding from the Solar Electric Power Association to the Smart Electric Power Alliance, and merging with both the Association for Demand Response and Smart Grid (ADS) and Smart Grid Interoperability Panel (SGIP). Prior to joining SEPA, Julia worked for ICF International where she supported EPA's implementation of the ENERGY STAR program. Julia - a graduate of Cornell University - walks the talk, living in a PV powered energy efficient home in Northern Virginia.

**Emma Hand****Partner, Dentons LLP**

Emma Hand has been a foundational partner in the development of Dentons' award-winning federal and state regulatory Energy practice. She plays an essential role on teams representing signature clients such as the City of New Orleans and the Municipal Electric Utility Association of New York. She has extensive experience in administrative litigation at the federal and state levels, related appellate practice, energy efficiency and counseling clients with regard to all sources of electric generation. She is highly regarded by her peers, is a Past President of the Energy Bar Association and has served on the boards of directors of the Charitable Foundation of the Energy Bar Association and the Foundation of the Energy Law Journal. She also serves on the George Washington University Law School Energy Law Advisory Board. Her practice focuses on advising public power entities, municipalities, large energy customers and load-serving entities regarding energy law in both regulatory and litigation settings.

**Dede Hapner****Vice President, FERC and ISO Relations, PG&E**

Dede Hapner is an executive with broad and deep leadership experience in policy and regulation at Pacific Gas and Electric Company. She has held four officer positions during her tenure at PG&E. Most recently her role has included policy, compliance and cost recovery with the Federal Energy Regulatory Commission (FERC), California Independent System Operator (CAISO) and various California State agencies. She is skilled in aligning large groups and budgets, managing change and strategic planning. She was actively engaged in restructuring the electricity markets and served on the early CAISO Board of Governors and recently has been an active proponent of expanding the CAISO footprint. She has held assignments in Washington, DC and San Francisco. Earlier in her career she held various NGO leadership positions and worked during Governor Brown's first two terms on hazardous materials and waste issues. She has an MBA, International Business from University of San Francisco and a BA and MA (along with PhD coursework) in Political Theory, American Politics and Voter Behavior from University of Michigan. Dede serves on the Keystone Policy Center Board of Trustees and Co-Chairs the Keystone Energy Board. She also Co-Chairs the ERB Institute Strategic Advisory Council at the University of Michigan.

**Tim Healy****Chairman and CEO, EnerNOC**

Tim Healy co-founded EnerNOC in 2001 and serves as its Chairman and CEO. Prior to EnerNOC, Tim worked in the Energy Technology Laboratory for Northern Power Systems, and held positions with Merrill Lynch, International Fuel Cells (a subsidiary of United Technologies Corporation), and the venture capital firm Commonwealth Capital Ventures. Tim currently sits on the Board of Directors of Genability, WeSpire, the Advanced Energy Economy (AEE), and the Northeast Clean Energy Council (NECEC), and serves on TechNet's Executive Committee, the Boston Green Ribbon Commission (GRC), and the Board of Overseers for the New England Aquarium. Tim graduated from Dartmouth College with a BA in Government modified with Economics, and received an MBA from the Tuck School of Business at Dartmouth.

**Stu Hemphill****Senior Vice President, Customer and Operational Services, Southern California Edison**

Stu Hemphill is senior vice president of Customer and Operational Services for Southern California Edison. In Customer Service, he is responsible for SCE's customer products and services, customer engagement and call center operations, and account management. Operational Services consists of SCE's supply chain, corporate real estate, transportation services, and corporate environmental services. He began his career as an SCE intern and recently celebrated 30 years with the company. Hemphill serves on the Boards of The Huntington Library and AbilityFirst. Hemphill earned an MBA at California State Polytechnic University, Pomona, and a bachelor's degree in electrical engineering at California State University, Fullerton.

## **César Hernández**

### **Undersecretary of Electricity, SENER**

Dr. César Emiliano Hernández Ochoa was appointed as Undersecretary of Electricity of the Ministry of Energy by President Enrique Peña Nieto in 2014. Prior to this designation, on February 16th of 2013, and up until his appointment as Undersecretary, he served as Head of Legal Affairs Unit of the Ministry of Energy; and currently he is member of the Governing Board of CFE. Within the Federal Public Administration, he has occupied several important roles: Director-General of Foreign Trade in the Ministry of Economy, Director-General of Legal Counsel of the Federal Government and Director General of Long Distance within the Federal Telecommunications Commission. Furthermore, he was a researcher within the Center for Development and Research (CIDAC), and is author of several books, such as: (The politics of foreign trade: regulation and impact), and (The Captive Reform: Investment, Work and Entrepreneurship in the Mexican Electric Sector). Dr. César Emiliano Hernández Ochoa holds a Bachelor's Degree from the Faculty of Law of the National Autonomous University of Mexico (UNAM), and is a Fulbright and Ford-MacArthur scholarship grantee. He finished his graduate studies in Fletcher School of Law and Diplomacy, and holds a PhD from UNAM, obtained in 2007.

## **Joseph Hezir**

### **Principal, Energy Futures Initiative**

Joseph S. Hezir, Principal of the Energy Futures Initiative (EFI), served as Chief Financial Officer and Senior Advisor to the Secretary of Energy from 2013 through January 2017. As CFO, Mr. Hezir led a 200-person organization responsible for the \$30 billion Department of Energy budget, including strategic planning, programming, budget formulation and budget execution. He also served as a senior advisor to the Secretary on management organization and strategic initiatives. Mr. Hezir also played a key role in cross-Departmental management processes, serving as Chair of the Loan Program Risk Committee, Vice Chair of the Credit Review Board, and member of the DOE Operating Committee, the Energy Council and Cyber Council. Prior to joining the Department of Energy, Mr. Hezir was senior member of the Massachusetts Institute of Technology Energy Initiative. From 1992 to 2014, Mr. Hezir co-founded and served as Managing Partner of the EOP Group, Inc. He provided strategic advice to corporations, non-profit organizations and industry trade associations on environmental, energy and federal budget and regulatory policy. He also formed EOP Foundation and EOP Education, LLC, affiliated organizations providing public policy analysis and executive training programs. Mr. Hezir served for eighteen years (1974-1992) in positions of increasing responsibility at the White House Office of Management and Budget, rising to the level of senior career official responsible for federal energy, science and technology and space exploration policies and budgets. Mr. Hezir was the recipient of the William A. Jump Foundation Award for federal financial management and also received the President's Outstanding Federal Executive Award in 1989. Mr. Hezir attended Carnegie-Mellon University with a B.S. in Chemical Engineering and M.S. from the Heinz School of Public Policy. He is married with two children and two grandchildren.

**Barbara Humpton****President & CEO, Siemens Government Technologies**

Barbara Humpton serves as President and Chief Executive Officer of Siemens Government Technologies, Inc., a federally-compliant U.S. organization and leading integrator of Siemens' innovative products, technologies and services for programs and requirements at federal government agencies and departments in the areas of energy generation, transmission, distribution and efficiency, infrastructure modernization, industrial applications and healthcare. Mrs. Humpton is also an Officer/Director member of the Board of Directors of Siemens Government Technologies, Inc.

Prior to joining Siemens, Humpton served as a Vice President at Booz Allen Hamilton where she was responsible for program performance and new business development for technology consulting in the Department of Justice and Department of Homeland Security. Earlier, Humpton was a Vice President at Lockheed Martin Corporation with responsibility for Biometrics Programs, Border and Transportation Security and Critical Infrastructure Protection, including such critical programs as the FBI's Next Generation Identification and the TSA's Transportation Workers' Identification Credential.

Humpton is a graduate of Wake Forest University with a degree in Mathematics. She resides in Washington, DC with her husband David.

**Lady Barbara Judge CBE****Former Chairman; Member of Strategic Advisory Council, U.K. Atomic Energy Authority; Statoil ASA**

Lady Barbara Judge, CBE, is a qualified lawyer with both American and British citizenship. She was appointed a Director of the United Kingdom Atomic Energy Authority in 2002 and served as its Chairman from 2004 to 2010. She is currently Deputy Chairman of the Tepco Nuclear Reform Monitoring Committee and Chairman of its Nuclear Safety Task Force. In addition she is a member of the UK Nuclear Development Forum and Chairman of The Energy Institute of University College London. Barbara is a non-executive Magna International Inc, among others. In addition, she is a member of the Strategic Advisory Council for Statoil ASA and a former independent non-executive director of the Board. Previously she was a Commissioner of the US Securities and Exchange Commission. She is also a member of the UAE Advisory Board for the Development of Peaceful Nuclear Energy and a Visiting Fellow at Oxford University, Centre for Corporate Reputation. She is also a member of the Board of the Lauder Institute of the Wharton School of the University of Pennsylvania. In June 2010 she was awarded Commander of the British Empire for services to the nuclear and financial services industries. In May 2015, she was elected the first woman chairman of the UK Institute of Directors. In addition she is Chairman of Cifas, the fraud protection agency in the UK specialising in the prevention of fraud and financial crime.

**Sue Kelly****President & CEO, American Public Power Association**

Sue Kelly has been president and CEO of the American Public Power Association since April 2014. Prior to becoming president and CEO, Kelly was the Association's senior vice president, policy analysis and general counsel. Ms. Kelly is a frequent speaker on energy-related topics. She has also appeared before federal and state administrative agencies, and testified before committees of the U.S. Congress and state legislatures. In March 2017, Kelly was named Woman of the Year by the Women's Council on Energy and the Environment. Kelly was named one of Washington's "Most Powerful Women" in the November 2015 issue of Washingtonian magazine in the "Business, Labor, and Lobbying" category. Kelly earned her J.D. degree with high honors from the George Washington University in 1980, and her A.B. degree in Honors Interdisciplinary Studies and Economics, magna cum laude, from the University of Missouri in 1977.

**Melanie Kenderdine****Principal; Energy Futures Initiative & EJM Associates; Non-resident Senior Fellow, The Atlantic Council**

Melanie Kenderdine is a principal of the Energy Futures Initiative and EJM Associates and a non-resident senior fellow at the Atlantic Council, a Washington think tank. Kenderdine served at the Department of Energy from May 2013 - January 2017, as the Energy Counselor to the Secretary and concurrently as the Director of DOE's Office of Energy Policy and Systems Analysis. Her 100-person office was responsible for analysis and policy development in areas that included: energy innovation; climate change; energy security; energy systems and infrastructure; and North American energy integration. Prior to her service at DOE, Ms. Kenderdine helped to establish the MIT Energy Initiative (MITEI) and served as its Executive Director. Kenderdine also started the C3E Symposium series, a joint MIT-DOE program to support the careers of women in clean energy with cash prizes; she still serves as a DOE C3E Ambassador. Before joining MITEI, Ms. Kenderdine served as the Vice President of Washington Operations for the Gas Technology Institute (GTI) from 2001 to 2007. From 1993 to 2001, Ms. Kenderdine was a political appointee in President Bill Clinton's administration, where she served in several key posts at DOE, including Senior Policy Advisor to the Secretary, Director of the Office of Policy, and Deputy Assistant Secretary for Congressional and Intergovernmental Affairs. Ms. Kenderdine has been married to Steven Cary for 28 years and has one son, Victor, a 2014 graduate of MIT and now a graduate student in Petroleum Engineering at New Mexico Tech.

**Jinmi Kim****Special Assistant to IPCC Chair, IPCC/Korea University**

Special Assistant to IPCC Chair, former research associate of the Center for Energy and Environment Policy University of Delaware.



## **Cheryl LaFleur**

### **Acting Chairman, Federal Energy Regulatory Commission**

Acting Chairman Cheryl A. LaFleur was first nominated by President Barack Obama to the Federal Energy Regulatory Commission in 2010 and was confirmed for a second term by the Senate in 2014. On January 23, 2017 she was appointed Acting Chairman by President Donald Trump. She was previously appointed by President Barack Obama to serve as Acting Chairman of the Commission from November 2013 to July 2014 and as Chairman from July 2014 until April 2015. Prior to joining the Commission in 2010, Cheryl had more than 20 years' experience as a leader in the electric and natural gas industry. She served as executive vice president and acting CEO of National Grid USA, responsible for the delivery of electricity to 3.4 million customers in the Northeast. Her previous positions at National Grid USA and its predecessor New England Electric System included chief operating officer, president of the New England distribution companies and general counsel. Earlier in her career, she was responsible for leading award-winning conservation and demand response programs for customers. Cheryl was named woman of the Year by the Women's Council on Energy and the Environment in 2015. In 2014, the Northeast Energy and Commerce Association presented her with its Vanguard Award for her long-time leadership in the development of competitive power markets. She received a Bipartisan Congressional Award in 2013 for her work on grid reliability. She has also been honored by the Greater Boston Chamber of Commerce and the YWCA of Central Massachusetts, among others. Commissioner Cheryl began her career as an attorney at Ropes and Gray in Boston. She has a J.D. from Harvard Law School, where she was an editor of the Harvard Law Review, and an AB from Princeton University.

## **Hoesung Lee**

### **Chair, Intergovernmental Panel on Climate Change**

Chairman of the Intergovernmental Panel on Climate Change (IPCC) and Endowed Chair Professor of the Graduate School of Energy and Environment, Korea University. Former president of the International Association of Energy Economics, Founding president of the Korea Energy Economics Institute, former Vice-chair of the IPCC.

## **Drew Leyburne**

### **Director General of Strategic Policy, Department of Natural Resources of Canada**

Mr. Drew Leyburne is Director General of the Strategic Policy Branch in Canada's Department of Natural Resources (NRCan). Drew has worked on energy and natural resource policy issues since 2006, and was most recently NRCan's Director General for Energy Policy, where he was responsible for North American and international energy relations. Last year, Drew led the first-ever peer review of Mexico's energy policies, for the International Energy Agency. Drew joined NRCan from the Privy Council Office, where he advised three Prime Ministers on the structure of the federal ministry and departments. Before joining the public service, Drew was an Associate with McKinsey & Co. in Toronto. He is a graduate of Bishop's University, and the University of Oxford, where he studied as a Rhodes Scholar.

**Amory Lovins****Chief Scientist, Rocky Mountain Institute**

Physicist Amory Lovins is cofounder, Chief Scientist, and Chairman Emeritus of Rocky Mountain Institute; advisor to major firms and governments worldwide on advanced energy efficiency; author of 31 books and 600 papers; and recipient of the Blue Planet, Volvo, Zayed, Onassis, Nissan, Shingo, and Mitchell Prizes, MacArthur and Ashoka Fellowships, 12 honorary doctorates, and the Heinz, Lindbergh, Right Livelihood, National Design, and World Technology Awards. An honorary architect, Swedish engineering academician, and former Oxford don, he has taught at ten universities. He is an advisor to the Chief of Naval Operations and a member of the National Petroleum Council. In 2009, Time named him one of the world's 100 most influential people, and Foreign Policy, one of the 100 top global thinkers. In 2016, the President of Germany awarded him the Officer's Cross of the Order of Merit.

**Bill Massey****Senior Counsel, Covington & Burling LLP**

Bill Massey is a former Commissioner of FERC (1993-2003). While at FERC, he played a key role in the restructuring of the electricity and natural gas industries. He practices law in Washington, DC and chairs Covington & Burling's energy practice. He represents clients on matters involving energy infrastructure development, acquisitions of energy facilities, ratemaking, compliance and enforcement, RTOs and market structure. He appears before FERC and state regulatory bodies. Since 2008 he has served as an Adjunct Professor at the Georgetown University Law Center.

**Lourdes Melgar****Robert E. Wilhelm Fellow at the Center for International Studies, MIT**

Lourdes Melgar is Robert E. Wilhelm Fellow at the Center for International Studies at the MIT. Prior to her appointment, she played a key role in the design and implementation of Mexico's historic Energy Reform. From February 2014 to July 2016, Melgar served as Mexico's Deputy Secretary of Energy for Hydrocarbons and was a member of the Board of PEMEX. From December 2012 to February 2014, she was Under-Secretary for Electricity and a board member at CFE. Previously, she held various diplomatic positions. In the academic realm, she was the founding director of the Center for Sustainability and Business at EGADE Business School of the Tecnológico de Monterrey. She has been a visiting scholar at the Woodrow Wilson Center for International Scholars and at the Jackson School of Geosciences of the University of Texas. She has authored articles on energy policy and the transition to a low-carbon economy. Melgar is a National Researcher of the Mexican Council for Science and Technology. She is the current president of the Mexican Chapter of the International Women's Forum, and a member of the Trilateral Commission, of the Mexican Council on Foreign Relations, and an Ambassador to the C3E Women in Clean Energies Initiative. A graduate from Mount Holyoke College, she holds a Ph.D. in Political Science from MIT.

**Philip Moeller****Executive Vice President, Business Operations Group and Regulatory Affairs, Edison Electric Institute**

The Honorable Philip D. Moeller is Executive Vice President, Business Operations Group and Regulatory Affairs at the Edison Electric Institute (EEI). Mr. Moeller has significant responsibility over a broad range of issues that affect the future structure of the electric industry and new rules in evolving competitive markets. He has responsibility over the strategic areas of energy supply and finance, environment, energy delivery, energy services, federal and state regulatory issues, and international affairs. Mr. Moeller works with EEI's member companies to identify policy solutions and business opportunities to better serve customers. Prior to joining EEI in February 2016, Mr. Moeller served as a Commissioner on the Federal Energy Regulatory Commission (FERC), ending his tenure as the second-longest serving member of the Commission. In office from 2006 through 2015, Mr. Moeller ended his service as the only Senate-confirmed member of the federal government appointed by both President George W. Bush and President Barack Obama. At FERC, Mr. Moeller championed policies promoting improved wholesale electricity markets, increasing investment in electric transmission and natural gas pipeline networks, and enhancing the coordination of the electric and natural gas industries. Earlier in his career, Mr. Moeller headed the Washington, D.C., office of Alliant Energy Corporation. He also served as a Senior Legislative Assistant for Energy Policy to U.S. Senator Slade Gorton (R-WA), and as the Staff Coordinator of the Washington State Senate Energy and Telecommunications Committee in Olympia, Washington. Mr. Moeller was born in Chicago and raised on a ranch near Spokane, Washington. He received a BA in Political Science from Stanford University.

**Bill Mohl****Executive Advisor, WMM Enterprises**

Executive advisor with 35+ yrs in energy business with executive experience in both regulated utilities (electric and gas) as well as unregulated business models (commodity trading, merchant generation, wholesale markets and gas processing). Focused on providing guidance, advice and expertise to the industry on a variety of different business related matters including but not limited to wholesale markets, operations, risk management, commercial matters, regulatory strategy, resource planning and business strategies. Most recently served as President of Entergy Wholesale Commodities with executive responsibility for optimizing a distressed merchant nuclear generation business in the NE U.S. Prior to this role, served as Chairman and CEO of Entergy's LA utilities with executive responsibility for all aspects of the gas and electric business including but not limited to all financial, operational, customer service, and regulatory objectives and results. Also served in various other leadership roles at Entergy and Koch industries.

**David Monsma (*Moderator*)**

**Executive Director, Energy and Environment Program, The Aspen Institute**

David Monsma is executive director of the Aspen Institute's Energy and Environment Program. The Institute's Energy and Environment Program convenes several annual policy forums and roundtables including The Aspen Institute Energy Policy Forum; the Global Forum on Energy, Economy and Security; and the Clean Energy Innovation Forum; the Aspen-Nicholas Forum on Water Policy; and the Forum on the Future of Nuclear Energy. The program also convenes, and David moderates, policy-testing dialogues on wildlife and ocean conservation; food security; climate change; energy governance and the India-US, and the China-US, Track II Dialogue on Energy as well as the Aspen Institute's Executive Seminar. An attorney by training, David has over 20 years of experience in environmental law and policy. He taught law and ethics at Loyola University in Maryland and served as director of business and environment at Business for Social Responsibility in San Francisco. During the Clinton Administration, David was the environmental management task force coordinator for the President's Council on Sustainable Development (PCSD). David began his legal career as a program attorney in the Office of Toxic Substances and Pollution Prevention at the U.S. Environmental Protection Agency headquarters in Washington, DC.

**Sharelynn Moore**

**Vice President, Corporate Communications & Public Affairs, Itron, Inc.**

Sharelynn Moore has 20 years of experience in the energy and technology sectors. In 2013, she was named vice president of Global Marketing and Public Affairs. In this role, Moore is responsible for all global marketing and public affairs activities for Itron, including development of strategic marketing objectives, oversight of internal and external communications and management of external affairs including community investment and government relations. Previously, Moore served as vice president of Corporate Communications after holding a variety of technical and product-related roles during her more than 14 years at Itron. In previous assignments, Moore focused on the strategy, management and marketing of Itron's Automated Meter Reading (AMR) solutions, network technologies, and enterprise meter data management software. Prior to joining Itron, Moore held marketing and product management roles at Avista Corporation and Micron. She holds a bachelor's degree in business from the University of Idaho and an MBA with an emphasis in IT from Gonzaga University.

**Jay Morrison**

**Vice President, Regulatory Issues, National Rural Electric Cooperative Association**

Jay Morrison leads the Regulatory Team for NRECA, the national representative for America's Electric Cooperatives. He has been with NRECA 19 years. Before that he spent time as an associate at the law firm Paul, Hastings, as a committee counsel for the Senate Labor and Human Resources Committee, and as a clerk at the US Court of Appeals for the D.C. Circuit. Jay has his MPP from the JFK School of Government, his JD from Harvard Law School, and his BA from UCLA. Jay is active with the Energy Bar Association, the Energy Law Journal and the ABA Infrastructure and Regulated Industries Section. Jay is married to Barbara Burgess and has two sons Abraham and Samuel.

**Richard G. Newell****President & CEO, Resources for the Future**

Dr. Richard G. Newell is the President and CEO of Resources for the Future (RFF), an independent nonprofit that improves environmental, energy, and natural resource decisionmaking through rigorous economic research and analysis. He has held senior government appointments as the administrator of the US Energy Information Administration and as the senior economist for energy and environment on the President's Council of Economic Advisers. Dr. Newell is an adjunct professor at Duke University, where he was previously the Gendell Professor of Energy and Environmental Economics and Founding Director of its Energy Initiative. He has published widely on the economics of markets and policies for energy and the environment, including issues surrounding global climate change, energy efficiency, and energy innovation. He is a research associate of the National Bureau of Economic Research and a member of the National Petroleum Council, advisory boards of the National Academy of Sciences, and several other institutions. Dr. Newell holds a PhD from Harvard University and an MPA from Princeton's Woodrow Wilson School of Public and International Affairs.

**Bob Perciasepe****President, C2ES**

Bob Perciasepe is President of the Center for Climate and Energy Solutions (C2ES), a leading, independent voice for practical policy and action to address our climate and energy challenges. Bob is a recognized leader on environmental policy, in and outside government. He most recently served as Deputy Administrator (and Acting Administrator) of the U.S. Environmental Protection Agency (EPA), and has built a reputation for bringing stakeholders together to solve issues. While Bob served as Deputy Administrator from 2009 to 2014, EPA set stricter auto emissions and mileage standards, increased protections for the nation's streams and rivers, and developed carbon emissions standards for power plants. He was previously assistant administrator for both the agency's water and clean air programs, leading efforts improve the safety of America's drinking water and lower sulfur levels in gasoline to reduce smog. Bob served as chief operating officer of the National Audubon Society, one of the nation's oldest conservation organizations. He has also held top positions in state and municipal government -- as Secretary of the Environment for Maryland and as a capital budgeting director for the city of Baltimore. He is the 2016 winner of American University's William K. Reilly Award for Environmental Leadership.

**Lara Pierpoint****Senior Fundamental Program Strategy Manager, Exelon**

Lara Pierpoint joined the Exelon corporate strategy team in October 2016, focusing on energy technology innovation and early-stage R&D. Prior to joining Exelon, she directed the Office of Energy Supply Security in the U.S. DOE Office of Policy and Systems Analysis, where she was responsible for policy and analysis related to coal, gas, and nuclear power and energy cyber and physical security. Before her work at DOE she served as an AAAS Congressional Science and Engineering Fellow for the Senate Energy and Natural Resources Committee, focusing on nuclear power and waste issues, energy finance, and electricity storage. She received her PhD in 2011 from MIT in Engineering Systems, studying deployment of advanced technologies for nuclear waste recycling, and she holds dual masters degrees from MIT in nuclear engineering and technology policy. She is a native Californian, with a B.S. in physics from UCLA.

**Maria Pope****Senior Vice President of Power Supply, Operations and Resource Strategy, Portland General Electric Co.**

Maria Pope serves as senior vice president, Power Supply, Operations and Resource Strategy. She oversees Portland General Electric's energy supply portfolio; operations, including wholesale power, fuels, marketing, trading and long-term resource strategy; and generation facilities, including 15 thermal, hydro and wind facilities. Pope joined PGE in 2009 as senior vice president of finance, chief financial officer and treasurer. She served on PGE's Board of Directors from 2006 to 2008. Prior to joining PGE, Pope was chief financial officer of Mentor Graphics Corporation. She has served in senior operating and finance positions within the forest products and consumer products industries. Pope is the chair of the governing board of Oregon Health Sciences University and serves on the board of Umpqua Financial Holdings Corporation. She is a graduate of the Stanford Graduate School of Business and earned her bachelor's degree from Georgetown University.

**Gil Quiniones****President & CEO, New York Power Authority**

Gil C. Quiniones has served as President and Chief Executive Officer of the New York Power Authority (NYPA), the nation's largest state-owned electric utility, since 2011. He is responsible for developing and implementing the statewide utility's strategic vision and mission and for supervising its operations, legal and financial matters and relationships with external stakeholders. Under his leadership, NYPA is currently playing a key role in the Governor's Reforming the Energy Vision initiative to use market forces and new technology to empower customers and encourage the growth of clean renewable energy and energy efficiency. Mr. Quiniones is Co-Chair of the Board of Directors of the Alliance to Save Energy and serves on the Boards of the New York State Energy Research and Development Authority and the Large Public Power Council. He is also NYPA's principal representative to the American Public Power Association. Mr. Quiniones was Co-Chairman of the New York Energy Highway Task Force, which helped carry out Governor Andrew M. Cuomo's vision for reimagining New York State's energy system through partnerships between the public and private sectors. He also served as Chairman of the Board of Directors of the Electric Power Research Institute in 2015, the electric power industry's international research and development organization. Before joining NYPA in 2007 as Executive Vice President of Energy Marketing and Corporate Affairs, Mr. Quiniones served in several positions in the administration of New York City Mayor Michael R. Bloomberg, including more than four years as Senior Vice President of Energy and Telecommunications. He previously worked for Con Edison for 16 years and was one of four co-founders of Con Edison Solutions, the utility's unregulated energy services company.

**James Rogers****Former CEO, Duke Energy**

Jim Rogers, journalist, lawyer, CEO, author and philanthropist. He currently is a Rubenstein Fellow at Duke University. He was most recently CEO at Duke Energy and served as CEO for almost 25 years in the electric utility industry. He did a series of mergers and acquisitions culminating in the creation of Duke Energy, the largest electric utility in the US. He also owned and/or operated assets in 17 countries in Africa, South Asia, Europe, and Central and Latin America. He has served on the boards of eight Fortune 500 boards. He currently is on the boards of the Aspen Institute, Brookings Institution, The Nature Conservancy, Bloomberg New Energy Finance, among others. In 2015, he authored "Lighting The World: Transforming Our Energy Future by Bringing Electricity To Everyone" in which he advocates for bringing electricity to the 1.2 billion rural poor through off-grid primarily renewable solutions. He is a co-founder of the Global Brightlight Foundation, which delivers solar-powered lanterns capable of charging cell phones to rural communities around the world. He is co-teaching a groundbreaking graduate seminar entitled: Renewables and the World's Poor at Duke University. In 2009, Newsweek named him one of "the 50 Most Powerful People in the World."

**Robert Rowe****President & CEO, NorthWestern Energy**

Bob Rowe has been President and Chief Executive Officer of NorthWestern Corporation since August 13, 2008. He is Co-Chair of the Institute for Electric Innovation, part of the Edison Electric Institute (EEI); a member of the EEI Board of Directors Executive Committee; a member of the American Gas Association Board of Directors; Western Energy Institute past chair and current executive committee member. Bob lives in Helena, Montana. He holds a BA from Lewis and Clark College in Portland, Oregon, a JD from the University of Oregon, completed the Kennedy School Senior Executives' Program, and has been active in various professional organizations. He has been active with a variety of university-based organizations, and is currently a senior fellow at the University of Florida Public Utility Research Center. At NorthWestern Energy, Bob's focus is working with other employees to build a strong company, focused on providing essential infrastructure and service, and that will be a long-term partner to the customers and communities they serve. Previously, Bob was co-founder and senior partner at Balhoff, Rowe & Williams, LLC, a specialized national professional services firm providing financial and policy advice to clients in the telecommunications and energy industries. Mr. Rowe served as commissioner and eventually chairman of the Montana Public Service Commission from 1993-2004, and also served as president of the National Association of Regulatory Utility Commissioners (NARUC). While at the PSC, Bob was a member and of the Federal-State Joint Board on Universal Service, a founding member of the Federal-State Joint Conference on Access to Advanced Services, and chairman of the Telecommunications Committee. During this time, he testified before various Congressional committees and federal agencies and consulted with and trained U.S. and non-U.S. energy and telecommunications regulators.

**Gwen Ruta****Senior Vice President, Climate & Energy, Environmental Defense Fund**

Gwen Ruta is Senior Vice President, Climate & Energy for Environmental Defense Fund, a leading nonprofit organization that links science, economics, and law to solve our most serious environmental problems. Gwen draws on three decades of management experience to oversee EDF scientists, attorneys, economists and policy analysts working to fight climate change. EDF's Climate & Energy Program focuses on the largest opportunities to turn the corner toward a stable climate, including: Accelerating the transition to a 21st century energy system by rewriting outdated utility rules and policies, using the Clean Air Act to protect Americans from climate and air pollution, reducing the climate and health risks of oil and natural gas development in the U.S. and abroad, and utilizing the power of markets to catalyze innovation and align national priorities with greenhouse gas reductions. Gwen has also served as Vice President of Programs at EDF and as Vice President of Corporate Partnerships. There she oversaw a team that spurred innovation in market sectors from shipping to retail to fleets. Notable initiatives included slashing supply chain greenhouse gas emissions with Walmart, creating a market for hybrid trucks with FedEx, and launching EDF Climate Corps, an innovative business fellowship program to catalyze energy efficiency. Prior to joining EDF, Gwen was Vice President at Metcalf & Eddy, an environmental engineering firm and held senior management positions at the U.S. Environmental Protection Agency and at the Harvard Kennedy School. She began her career working at a Texaco oil refinery. Gwen holds an M.P.A. from Harvard University and a B.S. in Chemical Engineering from the University of Virginia.

**David Sandalow****Inaugural Fellow, Center on Global Energy Policy, Columbia University**

David Sandalow is the Inaugural Fellow at Columbia University's Center on Global Energy Policy, where he directs the Center's US-China Program and writes widely on energy policy. He has served as Under Secretary of Energy (acting) and Assistant Secretary for Policy & International Affairs at the U.S. Department of Energy; Senior Fellow at the Brookings Institution; Energy & Climate Change Working Group Chair at the Clinton Global Initiative; Assistant Secretary for Oceans, Environment & Science at the U.S. State Department; and a Senior Director on the National Security Council staff. His recent works include *The Geopolitics of Renewable Energy* (2017, co-author), *Financing Solar and Wind Power: Lessons from Oil and Gas* (2017, co-author), *Solar Together* (2016), *CO2 Utilization Roadmap* (2016, project chair), *The History and Future of the Clean Energy Ministerial* (2016) and *Meeting China's Shale Gas Goals* (2014, lead author). Mr. Sandalow serves on the Board of Directors of ReNew Power, India largest renewable power developer. He is a member of the Steering Committee of the Innovation for Cool Earth Forum (ICEF) and chairs the ICEF Innovation Roadmap Project. Mr. Sandalow is a member of the Selection Committee of the Zayed Future Energy Prize, University of Michigan Energy Institute's Advisory Board, the Electric Drive Transport Association's "Hall of Fame" and the Council on Foreign Relations. He is a graduate of the University of Michigan Law School and Yale College.



**Jan Schori****Trustee, North American Electric Reliability Corporation**

Jan Schori is the former general manager and chief executive officer of the Sacramento Municipal Utility District (SMUD), the nation's sixth largest publicly owned electric utility. During her 14 year tenure as CEO, the utility earned a strong reputation for its renewable energy and energy efficiency programs as well as the national number one ranking in commercial customer satisfaction by JD Power & Associates. Prior to serving as CEO she spent 15 years on the legal staff at SMUD, including the last 5 as general counsel. She is past chair of the American Public Power Association, the Large Public Power Council, and the California Municipal Utilities Association. She is also past chair of the Business Council for Sustainable Energy and served on the board of the Alliance to Save Energy. After retiring from SMUD, she was elected in 2009 to the North American Electric Reliability Corporation's (NERC) board as an independent trustee and continues to serve in that position. She also serves on the board and executive committee of the Climate Action Reserve which develops protocols and tracks greenhouse gas reduction projects and which has been certified by the California Air Resources Board as an independent registry for AB 32 compliance credits.

**Justin Segall****President & Founder, Simple Energy**

Justin Segall is the President and Founder of Simple Energy, an energy software company. Simple Energy delivers a turnkey solution to help utilities build a customer relationship for the future by motivating customer action and streamlining transactions and program adoption. The Simple Energy customer engagement and marketplace solutions use data science, behavioral psychology, energy analytics, and integrated incentives with e-commerce to deliver energy and demand savings while enabling distributed energy resource adoption. With years of experience serving utilities across the US and Canada, Simple Energy offers proven technology and marketing capabilities to help utilities profit from the sale of new products and services while improving customer satisfaction and loyalty. Justin brings experience in the energy industry, community engagement, and business development. Justin leads strategy, partnerships, sales and operations for Simple Energy. Previously he served as VP of Resource Development for Renewable Choice Energy. Justin led the firm's trading and origination, executing significant transactions in renewable energy and carbon markets. Previously Justin served in senior roles with the \$3 billion Atlanta BeltLine project, the largest, most comprehensive sustainable urban redevelopment project in the U.S. Justin graduated cum laude from Duke University where he spearheaded Duke's path to leadership in sustainability.

## **John Shelk**

### **President & CEO, Electric Power Supply Association (EPSA)**

John Shelk is the President and Chief Executive Officer of the Electric Power Supply Association (EPSA). John has had a long and distinguished career in public service and in the private sector with an emphasis on energy and environmental issues. Prior to joining EPSA, he was the Senior Vice President of Government Affairs for the National Mining Association, where he directed a federal legislative advocacy team on behalf of the nation's coal and hard rock mining sectors. John's government career was capped with service as Republican Counsel to the House Committee on Energy and Commerce, where he worked on matters before the Subcommittee on Energy and Power and the Subcommittee on Oversight and Investigations. These matters included major responsibilities associated with the Clean Air Act Amendments of 1990 and the Energy Policy Act of 1992. Following his government service, John assumed a series of positions with increasing responsibility in a variety of business sectors: Federal Affairs Counsel for The Harford Financial Services Group; Assistant General Counsel for ITT Corporation; Vice President of the American Gaming Association; and Director of Federal Relations for Calpine Corporation. He also worked in the private practice of law for Gibson, Dunn & Crutcher. John earned his J.D. degree with honors from Georgetown University Law Center and a BA degree in American Government from Georgetown's College of Arts & Sciences, where he was elected to Phi Beta Kappa and selected as a George F. Baker Scholar.

## **Charif Souki**

### **Chairman of the Board, Tellurian Inc.**

Charif co-founded Tellurian and serves as Chairman of the Board. He also founded Cheniere Energy, Inc. in 1996 and served as Chairman of the Board of Directors, Chief Executive Officer and President until December 2015. Prior to Cheniere, Charif was an investment banker. He serves on the board of trustees of the American University of Beirut and as a member of the Advisory Board of the Center on Global Energy Policy at Columbia University. Charif received a B.A. from Colgate University and an MBA from Columbia University.

## **James Spiers**

### **Vice President Business and Technology Strategies, National Rural Electric Cooperatives Association**

Jim Spiers joined National Rural Electric Cooperatives Association in June 2014 as the vice president of technology, engineering and economic analysis. Spiers came to NRECA from Tri-State Generation and Transmission Association in Westminster, CO, where he served as senior vice president of business strategy/chief technology officer. Spiers directed Tri-State's engagement in several high-profile research initiatives, including carbon dioxide mitigation through inducement prize development (XPRIZE), development of an R&D test center at a coal-fired power facility and the formation of an international network of researchers focused on capturing and converting carbon emissions from industrial complexes into an asset. At Tri-State, Spiers focused on scientific and technical issues, technology innovation, research and development, the transformation of capital into strategies to advance business objectives; leveraging intellectual property for the benefit of Tri-State members and analyzing the financial, operational and long-term performance of the organization. Spiers served as director of the Colorado Public Utilities Commission from 1986 to 1991, and before that, as a hearings officer and researcher at the Colorado Department of Highways. Spiers has a law degree University of Colorado School of Law and a BA from Mesa College in Grand Junction, Colorado.

**Jeffrey Taft****Chief Architect for Electric Grid Transformation, Pacific Northwest National Laboratory**

Dr. Taft is Chief Architect for Electric Grid Transformation for Pacific Northwest National Laboratory's Energy and Environment Directorate, responsible for development and articulation of large scale architecture for grid modernization, as well as support for many cross-cutting activities at the Laboratory, like the Control of Complex Systems Initiative. He has held smart grid chief architect roles with Cisco, Accenture, and IBM. Jeff formerly worked for Westinghouse and has participated in several key smart grid projects since he first began to develop sensor architectures and analytics for distribution grids, and then became involved in the larger issues of end-to-end grid structure, integration, and control. He is the Principal Investigator for the Department of Energy's Grid Modernization Laboratory Consortium (GMLC) foundational project on Grid Architecture, leading the efforts of eight National Laboratories in this area and providing architecture support to other GMLC projects. Jeff is also a co-lead on the DSPx Project, working with the regulatory commissions of NY, CA, MN, DC, and HI on the definition of objectives, functions, and elements of platforms for distribution grid modernization and DER integration. Jeff earned a PhD in Electrical Engineering from the University of Pittsburgh with a dual specialization in digital signal processing and digital control systems in 1986. He is a member of the IEEE Power and Energy Society, and is an emeritus member of the GridWise Architecture Council.

**Sue Tierney****Senior Advisor, Analysis Group**

Susan Tierney is a Senior Advisor at Analysis Group, specializing in the electric and gas industries. She works on economic and environmental regulation, energy facilities, industry restructuring and market design, market analyses, clean energy policies, transmission policy, resource planning and procurement, market monitoring, and asset valuations. A former Assistant Secretary for Policy at the U.S. Department of Energy, and state public utility commissioner and environmental cabinet officer, Sue chairs NREL's External Advisory Board, serves as an advisor to DOE's Quadrennial Energy Review, is co-lead author of the energy chapter of the National Climate Assessment, and on the Secretary of Energy Advisory Board (and its Shale Gas Subcommittee). She is a member of the National Petroleum Council, the boards of World Resources Institute, Alliance to Save Energy, Energy Foundation, and of many Bipartisan Policy Center energy projects. She has a PhD and MA in regional planning and public policy from Cornell.

## **Clint Vince**

### **Chair, Global Energy Sector, Dentons US LLP**

Clint Vince is the chair of Dentons' Energy sector. Clint is rated as one of the leading energy attorneys in the US and has directed the expansion of the US Energy team into a premier practice that includes professionals spanning the continent coast-to-coast, offering a full range of services to energy industry clients. Clint also co-chairs Dentons' Global Energy Practice. His experience involves major project development, legislative and regulatory advocacy on behalf of public and private clients, and litigation and appellate cases including US Supreme Court advocacy. Clint has handled more than 600 regulatory and litigation proceedings and argued before trial and state appellate courts; numerous US District Courts; and the US Courts of Appeals for the First, Second, Fourth, Fifth, Eighth, Tenth, Eleventh and District of Columbia Circuits; and the Supreme Court of the United States, in some instances multiple times. Clint and his team of energy professionals, also were awarded Energy Daily's Leadership Award for "Most Dynamic Energy Practice" in the US. Clint was recently honored as one of the 2015 "Energy & Environment Trailblazers" in the National Law Journal's inaugural supplemental issue. He also has been recognized by Best Lawyers in America, Chambers USA, Legal 500 US and Washington, DC, Super Lawyers. Clint is a past editor-in-chief of the Energy Law Journal and has served as co-chair of the prestigious Keystone Policy Center, a think tank known for its work in the energy and environmental fields. Prior to joining Dentons, Clint was the managing partner of the Washington, DC, office of Sullivan and Worcester LLP, where he was also director of the firm's Energy practice. He served for many years as co-chair of Verner, Liipfert, Bernhard, McPherson and Hand, where he was the founder and chair of the firm's Energy and Environmental practice.

## **Jan Vrins**

### **Managing Director, Global Energy Practice Leader, Navigant Consulting, Inc.**

Jan Vrins is a managing director and Navigant's Global Energy practice leader. He advises utility executives on developing strategies for ensuring long-term operational and financial success in a rapidly changing landscape. Jan developed the Utility of the Future Framework to help clients understand how the trends in the market and evolving business models can improve their commercial and operational performance. His utilities industry experience includes investor- and government-owned utilities in North America, Europe, and Latin America. Jan has authored various publications and presented at leading industry conferences. With extensive consulting experience (24+ years) in the energy sector and a history of growing businesses in diverse, global markets, Jan is a global leader in today's energy consulting industry.

**Karen Wayland****Executive Director, Clean Energy Project**

Dr. Karen Wayland is Executive Director of the Clean Energy Project, a non-profit that advocates for clean energy policies in Nevada, the West and nationally and supports the clean energy business community. Previously she was the Deputy Director for State, Local and Tribal Cooperation at DOE's Office of Energy Policy and Systems Analysis and Senior Advisor to the Deputy Secretary. She served as Senior Advisor to Speaker of the House Nancy Pelosi and was named by Roll Call magazine as one of Capitol Hill's top ten energy staffers to know. She was the Legislative Director at the Natural Resources Defense Council for five years and she chaired the national environmental community's climate and energy coalition. She also worked for Senator Harry Reid, where she covered energy, nuclear waste, water, and Native American issues. She directed the Earth and Marine Sciences Program at Earthwatch, a nonprofit organization that funds scientific research by recruiting paying volunteers. Wayland has appeared as a commentator on major TV and radio programs, including CNN, MSNBC, and the Diane Rhem Show. She holds a Master's of Science from the University of Connecticut and a Dual Ph.D. in the fields of geochemistry and resource development from Michigan State University.

**Michael Webber****Professor, The University of Texas at Austin**

As Deputy Director of the Energy Institute, Co-Director of the Clean Energy Incubator, Josey Centennial Fellow in Energy Resources, Author, and Professor of Mechanical Engineering, Dr. Michael E. Webber trains the next generation of energy leaders at the University of Texas at Austin and beyond through research and education at the convergence of engineering, policy, and commercialization. His recent book, "Thirst for Power: Energy, Water and Human Survival", which addresses the connection between earth's most valuable resources and offers a hopeful approach toward a sustainable future, is receiving wide praise. His television special Energy at the Movies was in national syndication on PBS stations 2013-2015, and a suite of energy literacy tools titled Energy 101, including videos, online courses, and an interactive ebook, is available globally. He was selected as a Fellow of ASME, has authored more than 300 publications, holds 4 patents, and serves on the advisory board for Scientific American. Michael holds a BS and BA from UT Austin, and MS and PhD in mechanical engineering from Stanford. He was honored as an American Fellow of the German Marshall Fund, an AT&T Industrial Ecology Fellow, and on four separate occasions by the University of Texas for exceptional teaching.

**Martin Wilhelm****Managing Partner, Geopolis Energy Partners**

Martin Wilhelm is managing partner of Geopolis Energy Partners. He is a strategic advisor to corporations, financial institutions, investors, and policymakers on innovation and risk management in global energy markets. He has advised senior management at electric utility, banking, and energy exchange clients in North American and European energy markets, focusing on strategy, organization design, risk policy and management, financial engineering, energy trading, and electric transmission management. During the first decade of deregulation, his firm developed large-scale software systems for energy trading, portfolio management and risk controlling for electric utilities in Europe. After 9/11, he led the power, oil, and gas part of the Council on Competitiveness, DOE, and DTRA sponsored 'Competitiveness and Security Initiative'. In the context of German 'Energiewende', he has worked for German utilities, the European Energy Exchange and government on issues including changes in EU electricity market architecture to deal with intermittent renewables generation; risk management for physical generation assets in global energy markets; competitiveness challenges for European/German energy & climate policy from US shale gas. As a member of the steering committee for climate and energy at Atlantik-Brücke, Germany's leading private organization dedicated to promoting transatlantic relations, he has been an active participant in transatlantic discussions on climate & energy security and innovation as well as broader foreign, security, and trade policy issues. Mr. Wilhelm studied economics, management science, and electrical engineering at the Universities of Cologne and Bonn, Germany, Ecole des Hautes Etudes Commerciales (HEC), Paris, and MIT, and holds an M.S. in economics from Cologne University, and an international management degree from HEC, was a research fellow at Cologne Institute of Energy Economics and MIT Energy Laboratory, and is author of two books on energy economics.

**Lisa Wood****Executive Director, Institute for Electric Innovation**

Lisa Wood is Vice President of The Edison Foundation and Executive Director of the Institute for Electric Innovation (IEI). As Executive Director of IEI she collaborates with a Management Committee of more than 20 electric company CEOs and a select group of technology companies and provides thought leadership on current issues, trends, and innovation in the electric power industry. In 2015 and 2016, under Ms. Wood's leadership, IEI published Volumes I, II, and III of Key Trends Driving Change in The Electric Power Industry. Prior to that, IEI published Innovations Across the Grid: Partnerships Transforming the Power Sector, Volumes I and II. Wood is a Nonresident Senior Fellow in the Energy Security and Climate Initiative at The Brookings Institution and an Adjunct Professor at Johns Hopkins University SAIS. She was formerly an Adjunct Professor at Georgetown University's School of Foreign Service. Ms. Wood currently serves as an Advisor to GE Ventures; on the Board of Directors for Energate, Inc.; and on the Board of Directors for the National Energy Foundation.

**Jacob Worenklein**  
**CEO, US Grid Company**

Jay Worenklein is Chairman and CEO of US Grid Company, an electric power company focused on creating a more efficient and resilient electric power system in the US. He is also Chairman of Ravenswood Power Holdings, owner and operator of the largest power plant in New York. He previously founded and served as Chairman and Chief Executive Officer of US Power Generating Company. As CEO of US Grid Company, he is particularly focused on the reduction of carbon emissions in the United States. Jay started his career as a lawyer at Milbank Tweed Hadley & McCloy, where he practiced law for 20 years, formed and headed its global power and project finance practices and served on its three-person executive committee, which managed the firm. He then headed the global project finance and independent power business of Lehman Brothers, where he helped open the capital markets to the financing of energy and infrastructure project bonds. He then served as global head of the energy, power and infrastructure groups at Societe Generale, which under his leadership was named by Euromoney as the World's Best Project Finance Bank. During his years at SG, the groups he headed played a lead role in the financing of energy and infrastructure projects in approximately fifty countries. In 2002 he received the first Lifetime Achievement Award presented by Infrastructure Journal in London for his contributions to the development and financing of energy, natural resources, water, transportation and other infrastructure throughout the world. Jay has taught classes on ethics and business at Princeton and Yale and served for several years as Adjunct Professor of Finance at New York University's Stern School of Business, where he taught a course on project finance, energy and infrastructure.

**Martha Wyrsh**  
**Executive Vice President and General Counsel, Sempra Energy**

Martha B. Wyrsh is Executive Vice President and General Counsel of Sempra Energy, a San Diego-based Fortune 500 energy-services company whose subsidiaries provide electricity, natural gas and value-added products and services. The Sempra Energy companies' 17,000 employees serve more than 31 million consumers worldwide. Ms. Wyrsh has significant experience leading energy companies, previously serving as president and CEO for both Vestas American Wind Technology, the North American division of the world's leading global wind turbine manufacturer, and Spectra Energy Transmission, one of the largest natural gas pipeline, storage and gas liquids companies in North America. Early in her career, Ms. Wyrsh served as general counsel for two other NYSE energy companies, Duke Energy Corp and KN Energy (now known as Kinder Morgan Inc). Ms. Wyrsh serves on the board of directors for Spectris plc (FTSE) as well as the board of the non-profit Cristo Rey Network which supports a consortium of 28 college-prep high schools for underprivileged students. She has also served as a director of SPX Corporation and Spectra Energy Corp. Ms. Wyrsh earned her BA in English from the University of Wyoming, her JD from George Washington University and attended the Harvard Business School Advanced Management Program.