

New Transmission - Cost Causation & Beneficiary Analysis - Speakers Biographies

Kenneth W. Anderson, Jr., Attorney Foley Gardere and Vaughan & Anderson

Anderson served on the Public Utility Commission of Texas from September 2008 until November 2017. While on the PUCT, he represented Texas on the Board of Directors of the Organization of MISO States, the Southeastern Association of Regulatory Utility Commissioners, Inc., and the Entergy Regional State Committee (during which he also represented the committee on the Advisory Committee to the Board of Directors of MISO for several terms). Anderson served two terms as one of NARUC's appointed members of the Advisory Council of the Electric Power Research Institute. He is an attorney with almost 20 years in the private practice of corporate law with the Dallas based law firms of Gardere & Wynne (now Foley Gardere) and Vaughan & Anderson. His particular focus was on mergers and acquisitions (of both public and private entities), venture capital finance, securities law, and public and private capital raising and other financial transactions.

Anderson also represented numerous federal and state officeholders and candidates in areas of federal and Texas campaign finance law, election law and ethics law, including serving as the general counsel of a major state political party.

In addition to his tenure on the PUCT, his public service included working on the senior staffs of two Texas governors (Rick Perry and Bill Clements) and being a gubernatorial appointee to the governing boards of two other major Texas state agencies, including serving seven years on the Texas State Securities Board (appointed by then Gov. Bush).

Anderson received a bachelor's degree in international affairs from the School of Foreign Service at Georgetown University and a law degree from Southern Methodist University.

James R. Dauphinais, Managing Principal Brubaker & Associates, Inc.

Dauphinais was awarded a Bachelor of Science in Electrical Engineering from the University of Hartford. He has also completed several graduate level power systems engineering courses through the Engineering Outreach Program of the University of Idaho. Prior to joining Brubaker & Associates, Inc. ("BAI") Dauphinais was a Senior Transmission Planning Engineer for Northeast Utilities (now Eversource Energy). In his twelve and one-half year at Northeast Utilities he was responsible for completing thermal, voltage and stability transmission studies in support of the operating and planning decisions of Northeast Utilities. Dauphinais was also responsible for the day-to-day oversight of the administration of Northeast Utilities Federal Energy Regulatory Commission ("FERC") filed Open Access Transmission Tariff. He was the recipient of Northeast Utilities highest employee award, the Chairman's Award, for his work on power system stability issues.

Since joining BAI in 1997, Dauphinais has been involved with, and testified before the FERC, many state regulatory commissions and the Alberta Utilities Commission with regard to, many electric utility issues including ancillary service rates, avoided cost calculations, cost allocation, fuel costs, generation interconnection, interruptible rates, market power, market structure, prudence, off-system sales, purchased power costs, rate design, regional transmission organizations, resource planning, standby rates, transmission planning, transmission rates and transmission line routing. Dauphinais is also an active participant in the MISO stakeholder process on behalf of large industrial customers in Illinois, Louisiana, Michigan and Texas.

Joe Eto, Staff Scientist Lawrence Berkeley National Laboratory

Eto is a staff scientist at the Lawrence Berkeley National Laboratory where he serves as the strategic advisor for the Electricity Markets and Policy Group and for the Energy Storage and Demand Resources Division.

He has spent the past 20+ years conducting research on US transmission system issues and policies. He supports the U.S. Department of Energy's Office of Electricity Delivery and Energy Reliability in the preparation of DOE's National Electric Transmission Congestion Studies and Annual Transmission Data Review.

Eto has authored over 250 publications on transmission planning, electricity reliability, power quality, demand response, distributed generation, energy-technology market transformation, utility integrated resource planning and demand-side management, and building energy-efficiency technologies.

Sarah Freeman, Commissioner Indiana Utility Regulatory Commission

Commissioner Freeman was appointed by Governor Mike Pence as Commissioner on September 19, 2016, and reappointed by Governor Eric Holcomb on December 29, 2017, to a term ending December 31, 2021. She is a member of the NARUC Committee on Critical Infrastructure and Committee on Telecommunications. Commissioner Freeman serves as Treasurer of the Board of Directors for the Organization of MISO States (OMS) and is a member of the Board of Directors for the Universal Service Administrative Company and of the Advisory Board for the Financial Research Institute at the University of Missouri. She previously represented the Commission on the Board of Directors for the Organization of PJM States (OPSI).

Prior to her appointment, Commissioner Freeman served as a senior staff attorney with the nonpartisan Indiana Legislative Services Agency for 16 years, where she drafted utility and transportation legislation and served as counsel to numerous legislative committees. In addition, Commissioner Freeman was a member of the Executive Committee of the National Conference of State Legislatures (NCSL) and the NCSL Task Force on Cybersecurity.

A native Hoosier, Commissioner Freeman earned her undergraduate degrees in psychology, French, and political science from Indiana University – Bloomington and her juris doctor degree from the Indiana University Maurer School of Law.

Juliano Freitas, Generation Interconnection Manager, SPP

Freitas is presently a manager of Generation Interconnection department at Southwest Power Pool (SPP) at Little Rock, Arkansas. He received the B.E. and M.E. degrees in electric power engineering from Pontifical Catholic University (Brazil) in 2000 and 2004, respectively. He work with applied research for the Pontifical Catholic University developing solutions for multiple utility companies in distribution and generation areas. He has been employed at SPP since 2007, former economic studies manager.

William W. Hogan, Professor, Harvard

Professor Hogan is the Raymond Plank Research Professor of Global Energy Policy at the Harvard Kennedy School and Research Director of the Harvard Electricity Policy Group. He served on the faculty of Stanford University, where he founded the Energy Modeling Forum, and is past president of the International Association for Energy Economics.

Professor Hogan's research focuses on the interaction of energy economics and public policy, with an emphasis on the restructuring of the electricity industry. He has worked to design the market structures and market rules by which regional transmission organizations coordinate bid-based markets. Selected papers are available at www.whogan.com.

Zeny Magos, Energy Industry Analyst, FERC

Magos is an Energy Industry Analyst in the Office of Energy Market Regulation at the Federal Energy Regulatory Commission. As a member of the Commission's technical staff for the past 25 years, Magos has worked in various capacities on many aspects of the Commission's regulation of the electric public utility industry. For the past several years, Magos has been a subject matter expert with special emphasis on transmission planning and cost allocation, and, in particular, the requirements and implementation of Order No. 1000.

Ahmed Maria, Transmission Planning Director, IESO

Maria has 15 years of experience in the electricity sector with the Independent Electricity System Operator (IESO), specifically in the areas of power system operations and planning. He is currently the Director of Transmission Planning.

His responsibilities include the planning of the transmission system in Ontario. His team provides recommendations on transmission expansion projects required to address future system needs and supports transmitters in the implementation of those projects, including providing evidence and serving as witnesses at regulatory proceedings. Prior to his current role, he led teams responsible for developing operating instructions for the IESO's control room operators, and for assessing and registering new facilities connecting to the IESO controlled grid.

Maria is a registered Professional Engineer in the Province of Ontario. He has an undergraduate degree and post-graduate degrees in Electrical Engineering, and an MBA.

Natalie McIntire, Independent Consultant Clean Grid Alliance & AWEA

McIntire is an independent consultant working on high voltage transmission policy for renewable energy. She currently acts as a consultant to Clean Grid Alliance and the American Wind Energy Association. Recently, her work has been focused on transmission cost allocation policy, markets issues, transmission planning, and interconnection queue reform. McIntire has represented renewable energy interests in transmission discussions with MISO, SPP, NYISO, the Bonneville Power Administration, individual utilities, NERC, NAESB, state utility commissions and the Federal Energy Regulatory Commission.

Before working as a consultant, McIntire worked as a Senior Policy Associate for the Renewable Northwest Project in Portland, OR. In that position, she worked on transmission and green power policy in the Northwest, was an appointed member of the Oregon Public Utilities Commission's Portfolio Options Committee and acted as a member of the Green-e Board.

McIntire has a BS in Mechanical Engineering from Rensselaer Polytechnic Institute, a MA in the History of Science and Technology from the University of Minnesota, and a graduate certificate in Applied Energy Economics and Policy from the Portland State University, Oregon.

Jarred Miland Senior Manager System Planning Coordination, MISO

Miland is a seasoned electric industry professional with significant experience in utility and RTO technical and business operations. Utility experience at Alliant Energy (11 years) has made him an expert at transmission planning and operations. Miland spent nearly 4 years at Xcel Energy where he was instrumental in helping Xcel Energy's efforts on FERC Order 1000, Transco's and transmission business opportunities. He has also spent 12 years at MISO in several roles managing different initiatives in transmission planning, operations, markets and tariff administration. Miland was a core member of MISO South integration team and was the project manager for the RGOS effort that led to MISO's \$6B Multi-Value Project portfolio. His current role at MISO includes management of cost allocation, interregional transmission planning and economic transmission planning.

Miland has a BS in Electrical Engineering from North Dakota State University.

Neil Millar Executive Director of Infrastructure Development, CAISO

Millar is a professional engineer registered in Alberta, Canada and prior to joining the ISO in November of 2010, he was the Executive Director of Regulatory Affairs for Alberta's Utilities Consumer Advocate.

Previously he was with TransAlta Utilities, a vertically-integrated utility, for almost 19 years. He also spent seven years with the Alberta Electric System Operator, including five of those years as Vice President of Transmission.

Millar obtained his engineering degree at the University of Saskatchewan.

John R. Norris, Partner and Co-Owner State Public Policy Group (SPPG)

Norris is a Partner and Co-Owner of the State Public Policy Group (SPPG) based in Des Moines, Iowa. SPPG, founded in 1984, works with clients in the public, private and non-profit sectors providing issue management, research, advocacy, stakeholder outreach and facilitation, strategic planning and project management services.

Norris has over three decades of political, policy and administrative experience at the highest levels of state and federal government including extensive experience on energy and agricultural issues. Prior to joining SPPG Norris served as the Minister-Counselor for Agriculture for the United States Mission to the United Nations Agencies in Rome, Italy. He was appointed by President Obama and confirmed by the U.S. Senate in 2009 and again in 2012 to serve as a Commissioner on the Federal Energy Regulatory Commission. In 1999, Iowa Governor Tom Vilsack asked Norris to Chair the Governor's Working Group on Electric Restructuring. The legislation resulting from his work made Iowa a national leader in wind generation. Vilsack subsequently appointed Norris as Chairman of the Iowa Utilities Board (IUB).

While Chairman of the IUB, Norris also was elected President of the Organization of Midwest Independent System Operator (MISO) States and he chaired the Demand Response Working Group for the MISO. He Co-chaired the FERC/NARUC Smart Grid and Emerging Issues Collaborative, served on the Board of Directors of the National Regulatory Research Institute, was a member of the Board of Trustees of the Iowa Power Fund and served on the Advisory Council of the Iowa Energy Center. Norris has spoken extensively on energy, agriculture and regulatory issues both domestically and internationally.

Over this time period, Norris also managed to own a restaurant in rural Iowa, coordinate the 1993 Farm Aid Concert, graduate with distinction from the University of Iowa, College of Law in 1995, and work as an adjunct professor of American Government and Constitutional Law at Simpson College where he received his undergraduate degree in political science in 1981. Norris lives in Des Moines with his wife Jackie, their three sons: Hunter, Cole & Sam; and dog, Boss.

Johannes (Hannes) P. Pfeifengerger, Principal The Brattle Group

Pfeifengerger is an economist with a background in electrical engineering and over twenty years of experience in the areas of regulatory economics and finance. He has assisted clients in the formulation of business and regulatory strategy, submitted expert testimony to courts, arbitration panels, and regulatory agencies around the world, and provided support in mediation, arbitration, settlement, and stakeholder processes. He specializes in electricity market design, financial valuation, transmission cost-benefit analyses and network access, ratemaking and incentive regulation, analysis and mitigation of market power, and commercial litigation.

Pfeifengerger has extensive experience in the economic analyses of U.S. and Canadian electricity wholesale markets and transmission systems. His recent experience includes the analysis of regional markets and renewable generation development in the Western Interconnection; inter-regional transmission planning, cost allocation, and rate design; reviews of electricity market and resource adequacy designs; and testimony in contract disputes. He has led these engagements for investor-owned utilities, independent system operators, transmission companies, regulatory agencies, public power companies, and generators across North America.

Before joining The Brattle Group, Pfeifengerger was a Consultant for Cambridge Energy Research Associates and a Research Analyst at the Institute of Energy Economics at the University of Technology in Vienna, Austria.

He received an MA in Economics and Finance from Brandeis University and an MS in Power Engineering and Energy Economics from the University of Technology in Vienna, Austria.

Gregory J. Poulos, Executive Director Consumer Advocates of the PJM States, Inc.

Established in 2013, CAPS is a nonprofit organization whose members include state advocate offices in the 13 PJM states and the District of Columbia. As a whole, the CAPS members represent over 65-million consumers throughout the PJM footprint. As the executive director of CAPS, Poulos coordinates the efforts of the member offices, stays active in the PJM stakeholder process, and monitors relevant proceedings at the Federal Energy Regulatory Commission to ensure that the prices consumers pay for reliable, wholesale electric service are reasonable.

Prior to joining CAPS, Poulos spent over six years at EnerNOC as a member of the Regulatory Affairs team. While at EnerNOC, he regularly represented the company at public utility commissions throughout the Midwest. He also interacted with many regional transmission organizations including PJM, Inc., the Midcontinent Independent System Operator (MISO) and the Alberta Electric System Operator (AESO).

Poulos earned his undergraduate degree in Political Science from Miami University in Oxford, Ohio. He received his Juris Doctorate with from the Ohio State University Moritz College of Law.

Matt Prorok, Senior Policy Manager, Great Plains Institute

Prorok joined the Great Plains Institute in November 2015 and is a senior policy manager. His work focuses on the development of consensus-based solutions for electric transmission infrastructure and market mechanisms to support carbon reduction opportunities in the Midcontinent region. In addition, Prorok contributes to GPI's research and analysis work and is a facilitator for the Midwestern Governors Association's Grid Security & Modernization and MID GRID 2035 initiatives. As part of his work at GPI, he also served on the steering and policy committees of the Minnesota Energy Storage Alliance.

Prorok has a background in engineering and public policy. He obtained his BS in mechanical engineering from Penn State University with a minor in earth systems and an MS in science, technology, and environmental policy from the University of Minnesota's Humphrey School of Public Affairs. His work at the University of Minnesota focused on assessment of greenhouse gas emissions attributable to electric vehicle charging in Minnesota based on policy incentives intended to direct charging to specific hours of the day.

Alex Rudkevich, President at Newton Energy Group & Principal at Tabors Caramanis Rudkevich

Dr. Rudkevich has over 30 years of experience in energy economics, regulatory policy, and quantitative analyses of market fundamentals for electric power, natural gas and crude oil production and supply. Design, direction and management of applied projects and studies involving complex modeling of energy systems with applications to valuation of generation and transmission assets; price forecasting and development of forward curves; market design; theoretical analysis of markets for electric energy, capacity, ancillary services, financial transmission rights and marginal losses; and analyses of market power and mitigation measures.

Prior to forming Tabors Caramanis Rudkevich in 2014 and Newton Energy Group in 2012, Dr. Rudkevich was a vice president with the Energy & Environment practice at Charles River Associates (CRA), Director of Modeling with Tabors Caramanis & Associates (TCA), Senior Scientist at Tellus Institute, a consultant on Soviet oil and natural gas industry with Cambridge Energy Research Associates (CERA), and a Senior Researcher at the Energy Research Institute of the Russian Academy of Sciences in Moscow.

Dr. Rudkevich has testified extensively before the federal and state energy regulatory agencies and has published articles in *Energy Journal*, *Electricity Journal*, *Decision Support Systems*, *IEEE Transactions on Power Systems*, and *Energy Exploration & Exploitation*. He made numerous presentations at national and international conferences organized by IEEE, IAEE, INFORMS, IDEI, IGT, GRI, and NARUC. Dr. Rudkevich served as an invited referee for the *Energy Journal*, *IEEE Transactions on Power Systems*, *Operations Research*, *European Journal*

of Operations Research, and Mathematical Methods of Operations Research.

Zachary G. Smith, VP, System and Resource Planning NYISO

Smith is responsible for the oversight and implementation of system planning and strategic initiatives for the New York State transmission system. These include ensuring a reliable electric grid for the future, identifying economic opportunities for transmission investment beneficial to ratepayers, and implementation of system upgrades to enable public policies. Smith also oversees the interconnection process through which renewable resources and other new generation technologies reliably connect to the New York State electric grid.

Since joining the NYISO in 2004, Smith has spearheaded numerous renewable integration and transmission planning initiatives through key positions of increasing responsibility, and he actively represents the NYISO on interregional coordination committees.

He earned BS and MS degrees in Electrical Engineering from Michigan Technological University.

Krista Tanner, Senior VP and Chief Business Unit Officer ITC Holdings Corp.

Tanner is responsible for strategic direction, customer service, local government and community affairs, and financial performance for ITC's four operating subsidiaries: ITC Midwest, ITC Great Plains, ITC Transmission and Michigan Electric Transmission Company (METC). She was appointed to this position after having served as Vice President, ITC Holdings Corp. and President, ITC Midwest.

Prior to joining ITC, Tanner served as director of regulatory policy for Alliant Energy, a Wisconsin-based public utility holding company. While at Alliant she directed the company's regional and federal regulatory policy group and led the company's legal strategy across regulatory jurisdictions. Tanner previously served as a board member of the Iowa Utilities Board (IUB) under appointment by Gov. Chet Culver. At the IUB she provided leadership in strategic planning, policy issues, and organizational performance. Earlier in her career, Tanner was an associate attorney and shareholder at Dickinson, Mackaman, Tyler & Hagen, P.C.

Tanner holds a Juris Doctor from Drake University School of Law and a Bachelor of Arts from the University of Northern Iowa. She is currently pursuing a Master of Business Administration at the Tippie School of Management at the University of Iowa.

Bruce Tsuchida, Principal, Brattle Group

Tsuchida has over twenty-five years of experience in domestic and international utility operation, power market analysis, and asset evaluation.

He specializes in assessing the impact of new technologies and regulatory changes, including analysis of evolving wholesale electric markets and modeling, impact of renewable and other new technologies on system operations, utility business, and various impacts on valuations of transmission and generation assets, deliverability, and contracts.

Tsuchida's experience spans a wide range of utility consulting projects, ranging from integration studies for intermittent resources such as wind and solar power, storage technologies, operational logic studies, ancillary

service studies, and analyses required for regulatory proceedings. Regulatory proceeding related analyses include cost benefit analyses, such as those for evaluating new technologies and the resource portfolio, and various cost of service studies.

Tsuchida also has extensive experience in the analysis and modeling of market restructuring for the electric industry and power systems. He has performed cost benefit analyses of various RTOs, and analyses of RTO options for utilities and RTO seams eliminations. He has also evaluated various utility business model options associated with the change in market structure, including both the wholesale and retail markets.

Prior to joining Brattle, Tsuchida was a Principal at Charles River Associates, and previously a Project Manager at the Tokyo Electric Power Company (TEPCO) where he oversaw international generation development projects and was the lead engineer for Southeast Asia generation units.

Tsuchida earned his MS in Technology and Policy, and MS in Electrical Engineering and Computer Science from the Massachusetts Institute of Technology in Cambridge, Massachusetts, and a BS in Mechanical Engineering from Waseda University in Tokyo, Japan.

Lawrence Willick, Senior Vice President LS Power Development, LLC

Willick leads LS Power's competitive transmission development efforts, which include operating facilities within ERCOT and Nevada, projects under construction in PJM, MISO, and CAISO, and facilities in permitting within NYISO. He has served in various management capabilities in the development, permitting, construction, and operations management of independent power projects in all U.S. markets.

Willick has over 25 years of experience in the utility and independent power industry. He has an MBA and a BS in Engineering, summa cum laude, from Tulane University.