

P Jay Caspary

233 Wedgeview Drive
Farmington, AR 72730
jaspary@gridstrategiesllc.com
501.951.3296

Experience

- **Sept 2020 – present Grid Strategies LLC**
 - **Vice President**
 - Leveraging 40+ years of utility and RTO experience to assist clients in realizing a clean energy future grid that is efficient, effective, secure and resilient**
 - Co-author Brattle and Grid Strategies report filed in FERC RM21-17 entitled “Transmission Planning for the 21st Century: Proven Practices that Increase Value and Reduce Costs”**
 - Participated at North Carolina Utility Commission technical conference on Duke’s 2020 IRP**
 - Filed answer testimony in support of Clean Power Pathway in Colorado PUC CPCN docket**
 - Co-author ACEG papers including “Planning for the Future: FERC’s Opportunity to Spur More Cost-Effective Transmission Infrastructure” regarding FERC Order 1000 reforms and “Disconnected: The Need for New Generator Interconnection Policy”**
 - WATT Coalition support including lead role in “Unlocking the Queue” which was a Grid Enhancing Technologies (GETs) case study in KS and OK for 2025**
 - Team leader for ESIG workshops and white paper on “Transmission Planning for 100% Clean Electricity”**
 - **2001 - 2020 Southwest Power Pool**
 - **Director – Research, Development & Tariff Services (RDTS)**
 - Manage research projects and funding priorities for SPP while providing strategic consulting for SPP executives and management**
 - Direct RDTS staff in support of programs and projects to support strategic objectives of SPP - Dynamic Line Rating pilot projects with AEP and Sunflower Electric, PMU deployment roadmapping, special studies like High Priority Incremental Load Study (HPILS), Value of Transmission, WAPA/Basin IS integration**
 - Direct all customer requested service studies including generation interconnections, transmission service and congestion hedging**
 - Co-lead for Technical Review Committee for DOE-funded, NREL-led Interconnections Seam Study**
 - Member of EPRI Grid Operations, Planning and Renewable Integration Leadership Team**
 - Steering Committee for TransGrid-X 2030 Symposium at Iowa State University**
 - U.S. Representative on CIGRE C1.35 and C1.44 evaluating merits of a global electric grid**
 - **2012 – 2013 Senior Policy Advisor – U. S. Department of Energy in Electricity Delivery and Energy Reliability (OE)**
 - Educate DOE and agency staff on grid operations and planning**

Serve on Grid Tech Team
Recommend changes in research priorities and organizational structure of OE
Member of WAPA Joint Outreach Team to facilitate grid modernization

Director – Transmission Development / Engineering

Led transmission expansion policy development within SPP and beyond, as well as strategic and other benefit assessments for EHV transmission.

Led inter-regional coordinated and collaborative planning studies, Eastern Interconnection Planning Collaborative (EIPC), WECC TEPPC, SWAT, SIRPP, etc.

Represent SPP on the Technical Review Committees for the Eastern Wind Integration and Transmission Study (EWITS) sponsored by DOE/NREL, as well as Nebraska Power Association Wind Integration Study, and several ARRA funded projects for EPRI, et al.

Chair EPRI Program 173: Enabling Transmission for Large Scale Renewables

Staff Secretary for SPP’s Design Best Practices and Performance Criteria Task Force which led to SPP’s design standards including 3,000 Amps for new 345kV regionally funded lines

Direct activities of the Technical Studies & Modeling, Planning and Tariff Studies Sections of the Engineering Department at SPP

Direct development of SPP’s EHV Overlay plan, as well as Wind Penetration Study

Develop/Manage Engineer-In-Rotation program for all engineering groups at SPP

Led implementation of Economic Upgrades within SPP, e.g., Westar’s Wichita – Reno Co – Summit 345 kV and KETA’s Spearville – Knoll – Axtell EHV projects

Chair ISO/RTO Council Planning Committee

Development and implementation of the SPP Transmission Expansion Plan (STEP)

Develop process and template for economic transmission expansion planning

Initiate and direct coordinated planning activities, e.g., ERCOT/SPP Joint Study

Represent SPP on NERC Transmission Issues Subcommittee (TIS) and RAS

• 1981 – 2000 Illinois Power

Increasing levels of responsibility beginning with System Planning, and expanding expertise in Energy Supply, Regulatory Services, and Retail Marketing. Began career in Transmission Planning performing technical analyses as well as serving as IP’s representative on the MAIN Engineering Committee, supporting Research & Development, negotiating and implementing the nation’s first retail wheeling pilot program with industrial customers and transitioning interruptible customers to real time pricing tariffs, and then working with utilities and legislatures to get approval of retail choice in Illinois prior to developing and implementing marketing plans for commercial and industrial customers.

Education

University of Illinois Bachelor of Science in Electrical Engineering with a Power Systems emphasis

Iowa State University Course requirements for a Masters of Engineering

Memberships

2009 – Present Institute of Electrical and Electronics Engineers
2009 - Present Power and Energy Society
2016 – Present CIGRE

Awards

2011 UWIG Achievement Award for the advancement of transmission planning and markets in the SPP footprint, *Utility Wind Integration Group*

2012 Technology Transfer Award for DOE Integration of Southwest Power Pool Wind by Southeast Utilities, *Electric Power Research Institute*

2017 UVIG Service Award for 11 years of service to the UVIG Board of Directors, *Utility Variable-generation Integration Group*

2019 Sullivan Alumni Association Hall of Fame Award, Sullivan Illinois

2020 Honorable Mention Energy Central's Leaders in Innovation in the Electric Power Industry

2020 Electric Power Research Institute Power Delivery and Utilization Sector Transmission Operations and Planning Advisory Leadership award for outstanding contributions to the Transmission Operations and Planning Advisory Leadership Team from 2010 to 2020

Service Activities

2009 – 2012 NERC Integrating Variable Generation Task Force, Task 2.3 BA Services and Coordination Chair

2009 – 2020 Industry Advisory Board for Power Systems Engineering Research Center (PSERC) and GRid-connected Advanced Power Electronics Systems (GRAPES), including Chair for each organization

2009 – 2020 Member of Electric Power Research Institute Grid Planning & Operations Leadership Team

2016 – 2018 U. S. Department of Energy, Electricity Advisory Committee

2021 NSF Innovation-CORPs Midwest Cohort Industry Mentor for Bastazo

2021 - Present Member of SPP Independent Expert Panel (IEP)

Publications

Michael Goggin, Rob Gramlich, Jay Caspary, Jesse Schneider, *Fleet Failures: How Interregional Transmission Keeps the Lights on When Generation Fails*, November 2021

Debbie Lew, Jordan Bakke, Aaron Bloom, Patrick Brown, Jay Caspary, Christopher Clack, Nicholas Miller, Antje Orths, Alison Silverstein, John Simonelli, Robert Zavadil, *Transmission Planning for 100% Clean Electricity*, IEEE Power & Energy Magazine, November/December 2021

Rob Gramlich, Michael Goggin, Jay Caspary, Jesse Schneider, Johannes Pfeifenberger, Kasparas Spokas, J. Michael Haggerty and John Tsoukalis, *Transmission Planning for the 21st Century: Proven Practices that Increase Value and Reduce Costs*, October 2021

Rob Gramlich, Michael Goggin, Jay Caspary, Jesse Schneider, *Resolving Interconnection Queue Logjams: Lessons for CAISO From the US and Abroad*, October 2021

Figuroa Acevedo, A., Jahanbani-Ardakani, A., Nosair H., Venkatraman, A., McCalley, J., Bloom, A., Osborn, D., Caspary, J., Okullo, J., Bakke, J., and Scribner, H., *Design and Valuation of High-Capacity HVDC Macrogrid Transmission for the Continental US*, May 2021

Bloom, A., Azar, L., Caspary, J., Lew, D., Miller, N., Silverstein, A., Simonelli, J., and Zavadil, B., ESIG System Planning Working Group *Transmission Planning for 100% Clean Electricity*, February 2021

Gramlich, R., Caspary, J., Americans for a Clean Energy Grid (ACEG) *Planning for the Future: FERC's Opportunity to Spur More Cost-Effective Transmission Infrastructure*, January 2021

Caspary, J., Goggin, M., Gramlich, R., and Schneider, J., Americans for a Clean Energy Grid (ACEG) *DISCONNECTED: The Need for New Generator Interconnection Policy*, January 2021

Wang, W., Ramasubramanian, D., Farantatos, E., Bowman, D., Scribner, H., Tanner, J., Cates, C., Caspary, J., and Gaikwad, A; *Evaluation of Inverter Based Resources Transient Stability Performance in Weak Areas in Southwest Power Pool's System Footprint*, CIGRE Session 48, 2020

Figuroa-Acevedo, A., Jahanbani-Ardakani, A., Nosair, H., Venkatraman, A., McCalley, J., Bloom, A., Osborn, D., Caspary, J., Okullo, J., Bakke, J., and Scribner, H., *Design and Valuation of High-Capacity HVDC Macrogrid Transmission for the Continental US*, IEEE Transactions on Power Systems, 2019

Bowman, D., McCann, R., Subramanian, D., Farantatos, E., Gaikwad, A., and Caspary, J., *SPP Grid Strength Study with High Inverter-Based Resource Penetration*, North American Power Symposium, 2019

Caspary, J., Bowman, D., Dial, K., Schoppe, R., Sharp, Z., Cates, C., Tanner, J., Ruiz, P. A., Li, X., and Tsuchida, T.B., *Application of Topology Optimization in Real-Time Operations*, CIGRE US National Committee 2019 Grid of the Future Symposium, 2019

McCalley, J., Caspary, J., Clack, C., Galli, W., Marquis, M., Osborn, D., Orths, A., Sharp, J., Silva, V., and Zeng, P., *Wide-Area Planning of Electric Infrastructure: Assessing Investment Options for Low-Carbon Futures*, IEEE Power and Energy Society Magazine, November/December 2017.

Caspary, J., McCalley, J., Stoltz, M., Bloom, A., Scribner, H., Novacheck, J., and Figuroa, A., *Eastern and Western Interconnections Seams Study Update*, CIGRE US National Committee 2017 Grid of the Future Symposium, 2017

Caspary, J., and Waldele, B., *Leveraging Technology: Maximizing Value in the Bulk Power Industry [In My View]*, IEEE Power and Energy Society Magazine, November/December 2016

Mattei, A.K.; Grady, W. Mack; Caspary, P. Jay; and McBride, Scott A.; *Detection of time spoofing attacks on GPS synchronized phasor measurement units*, 2016 69th Annual Conference for Protective Relay Engineers (CPRE)

Caspary, J., McCalley, J., Sanders, S., and Stoltz, M., *Proposed Eastern Interconnection and Western Electricity Coordinating Council Seams Study*, CIGRE US National Committee 2015 Grid of the Future Symposium, 2015

Lauby, M., Ahlstrom, M., Brooks, D., Beuning, S., Caspary, J., Grant, W., Kirby, B., Milligan, M., O'Malley, M., Patel, M., Piwko, D., Pourbeik, P., Shirmohammidi, D., and Smith, C., *Balancing Act*, IEEE Power and Energy Society Magazine, November/December 2011.

Osborn, D., Henderson, M., Nickell, B., Lasher, W., Liebold, C., Adams, J., and Caspary, J., *Driving Forces Behind Wind*, IEEE Power and Energy Society Magazine, November/December 2011.

Caspary, J., Power Engineer Profile, *IEEE-USA Today's Engineer*, June 2011

Lawhorn, J., Osborn, D., Caspary, J., Nickell, B., Larson, D., Lasher, W., and Rahman, M., *The View from the Top*, IEEE Power and Energy Society Magazine, November/December 2009.

Caspary, J., *Distribution Circuit Reliability Improvements*, Proceedings to the American Power Conference, Chicago, IL, 1994

Caspary, J., Hollibaugh, B., Licklider, P., and Patel, K., *Optimal Fuel Inventory Strategies*, Proceedings of the American Power Conference, Chicago, IL, 1990