



Electric Reliability and Security for the West

Meg Albright

Class 1

Bonneville Power Administration

Margaret (Meg) Albright is a registered Professional Engineer and Project Management Professional with 30+ years of electrical engineering experience. She has worked in Maintenance, Design, Project Management, and Operations. She has held her present position managing BPA's Transmission Operations Support Department since 2012. She serves on the WECC Operation Committee as the Vice-Chair and BPA's Class 1 Representative. She held the NERC Operating Committee member seat for Federal PMAs in 2018 & 2019.

Meg has extensive experience identifying strategic goals and prioritizing risks to reliability through her work on BPA's Grid Modernization effort. This strategic initiative includes many projects designed to increase automation, improve accuracy and enhance visibility into how the federal power and transmission systems are functioning in real time, to ultimately enhance the optimization and reliability of the grid. Meg also was part of the core group that stood up BPA's Public Safety Power Shutoff Program in response to increasing wildfire activity. These efforts illustrate Meg's ability to identify and mitigate risks by implementing projects to address them.

Meg is a lifelong resident of Oregon where she lives with her husband.

Throughout my career I have seen multiple industry disruptions that have changed each of the industries in ways that no one seemed to imagine that they could. Starting with telecommunications I had the opportunity to work in the evolution from POTS to a cloud-based communication that replaced delays and echoes with real time video connections. I participated in the change from bilateral energy-based trading to working with the Energy Imbalance Market and now have a voice in crafting the start of the new extended day ahead market. I've worked in real time operations balancing traditional generation and are part of the industry wide transition to renewable generation with the use of energy storage devices. I've lead projects in transmission, renewable generation, and distribution. I've been placed in situations where we have needed to start from ground zero to rebuild relationships among teams, departments, and outside agencies. I've worked with my team to build operational readiness strategies for reliably operating large chunks of renewable generation to both meet the customer's needs, but also meet the company's needs.

I bring my last 21 years of experience working in an investor-owned utility, a utility scale solar inverter company and most recently a public power utility. This includes engineering, project management, design, and leadership. I have co-chaired multiple strategic reliability focused programs that were designed to take multiple poor performance circuits, prioritize these across the state and bring these circuits into acceptable performance metrics. I participated in the MIC and OC committees and am looking forward to the kickoff with the newly formed I have found more success in my career working collaboratively with other teams and agencies then ever taking a stance of working alone. I've been the face of change and evolution with the media and road shows to introduce the use of the Public Safety Outage Management (PSOM).

I have spent the better part of the last 12 years in operations either imbedded with the line crews, with trouble responders or in System Control. All these teams rely upon standards for maintaining the reliable operation of the bulk electric system. I would like to be able to take a much more proactive role in working to identify the ever-evolving challenges that continue to with the Transmission and Generation Operations to bring the system back to one that the public believes in. The main goal for all utility personal is the safe and reliable operation of the grid; if, any part of that goal fails, it can have catastrophic impacts to safety, reliability, or both. The result of that is that the industry so far has failed to meet the needs and expectations of our customers. When I saw some of the issues that the grid had been challenged with, I was excited by the opportunity to be a part of improving reliability.

Profile:

Over 20 years of professional experience in the utility industry including roles in executive leadership, operations, project management, engineering, and regulatory/compliance testimony experience. I have experience leading diverse teams to successful completion of complex multi-faceted projects. I have managed budgets ranging in size from multi-million dollar on up to two hundred-million-dollar transmission and substation builds including both green-field as well as renovation projects. My background has held critical roles in project management, program management as well as O&M reductions and process improvements.

Experience:

Director, Transmission & Generation Operations December 2019 – Current

Salt River Project

Position responsible for direct oversight of the Transmission Operations (TO), Balancing Authority (BA) including Generation, and EIM operations team for the SRP service territory. This position is responsible for strategic planning to support the corporate reliability goals, real time operations and compliance. This position serves as the Incident Commander in all reliability related events. The position directly coordinates with departmental executives, directors, and front-line leadership to maintain the safety of employees and the public, while continuing to hold the highest levels of reliability and safe operation of the grid. The position is directly responsible for meeting operational compliance and meeting all regulatory changes. The position is responsible for the creation and coordination of strategies to meeting the CO2 reduction, renewable requirements by providing quarterly reviews to executive leadership team with monthly and quarterly reviews with departmental owners and their effectiveness in meeting the created metrics. The position is also responsible for providing update presentations to both the Board and to the Arizona Corporate Commission on summer preparedness status and reliability updates throughout the year. I am also the Vice Chair for RC-West oversight committee, and a participating member of the WECC Operating Committee, Market Interface Committee, and the Energy Storage Operations Committee.

Director, Grid Reliability and Operations December 2017 – November 2019

NV Energy

Position responsible for direct oversight of the Transmission Operations (TO), Balancing Authority (BAO) including Generation, Distribution Operations (DO) and EIM operations team for all the NV Energy service territory. This position is responsible for strategic planning for all areas to realize Transmission and Distribution corporate reliability goals. This position serves as the Executive in Charge (EIC) for all operational and catastrophic events for all of NV Energy. The position coordinates and executes all restoration efforts with every department including lines, substation, transmission and generation, major accounts, corporate communications, resource optimization, emergency management



and engineering. Directly coordinates with departmental executives, directors and front-line leadership to maintain the safety of employees and the general public, achieve maximum reliability and safe operation of the grid. Facilitates all Rapid Process Improvement (RPI) techniques for all departments in the company. Develop and leading the drone technology implementation including Beyond Visual Line of Sight (part 107 certified) from a perspective of a safety tool, reliability improvement tool and an O&M cost cutting tool. I was co-chair on the SAIDI improvement initiative (corporate goal for reliability improvement). The position develops and manages project design, budgets, schedules and teams responsible for technical specifications, procurement, installation, testing, operations and maintenance of the systems and implemented. Create and coordinated departmental scorecards for both mid-month reviews and monthly presentation to executive leadership team with monthly and quarterly reviews with departmental owners and their effectiveness in meeting their scorecards. Coordinated with state and local agencies as well as operations team to provide leadership during emergency response and storm restoration. Develop and implement budgeting plans for both capital maintenance and O&M budgets. Stakeholder in the PEAK RC to CAISO RC design and rollout. I am also responsible for the drone integration and use within the NV Energy footprint as well as disaster recovery.

Director, Energy Delivery, Rural

February 2016 – December 2017

NV Energy

Position responsible for lines construction and maintenance of the NV Energy rural service territory including transmission and distribution operations in a largely field driven role. Position has eight direct reports (area service managers, regional engineers and administrators) and 132 indirect reports (lines construction, trouble response and supporting positions) and 40 contract employees including both business analysts as well as contract crews. Special projects include develop and implement O&M plans for corporate improvements to SAIDI and SAIFI and managing departmental budgets. Created and coordinated scorecard for both mid-month reviews and monthly presentation to executive leadership team. Coordinated with state and local agencies as well as operations team to provide leadership during emergency response and storm restoration. Develop and implement budgeting plans for both capital maintenance and O&M budgets.

Manager, T&D System Operation

December 2014 – February 2016

NV Energy

Position responsible for direct oversight of the Balancing Authority for all of Nevada, including Transmission and Distribution System Operations. Directly coordinating with departmental executives, managers and front-line leadership to achieve top quartile reliability and safe operation of the grid. Continuous process improvements with after action reviews system events including root cause analysis to effectively drive the operating teams to success. Develop and manage project design,



budgets, schedules and teams responsible for technical specifications, procurement, installation, testing, operations and maintenance of the systems and implemented. Directly coordinate with compliance team for NERC audits and procedures to meet all NERC standards. Drove bottoms up Safety committee and established and substation and lines switching committee to review all changes to procedures for safety.

Business Manager

October 2013 thru December 2014

Liberty Utilities

Position responsible for all long- and short-term strategic planning, logistics and lines operations for the Lake Tahoe and northern California service territory. This position directly coordinates the transmission and distribution rebuilds along with coordinating all subcontracted planners and project managers for ongoing new business and rebuild projects in a largely field driven role. Position led a team of 25 direct employees comprised of a management team, bargaining unit, and an additional 30 contract employees. Directly coordinated with multiple planning, building agencies, environmental agencies both local and federal and providing witness testimony to the California Public Utilities.

Senior Project Manager (contract)

April 2012 thru October 2013

NV Energy

Position managed all of the telecommunications projects for Northern Nevada operations along with transmission rebuilds and new renewable plant integration and studies. This included yearly O&M projects and budgets, capital projects and budgets and ongoing capital maintenance projects and budgets. This position coordinated directly with all of the other departments including protection, substation and transmission. Position was also responsible for NERC compliance

Utility Apps Engineer/Program Manager

November 2011 thru April 2012

Advanced Energy

Acting liaison between utilities and investor owned solar plants with both LGIAs and SGIAs for new renewables. This position directly coordinated with investors on new solar projects and the utilities that they were interconnecting with. The position eventually morphed to a program manager that was responsible for new utility scale inverter design to meet the needs and requirements of utilities along with all NERC voltage support requirements. Implemented use of FR gear on all active solar sites due to arc flash risks.

Supervisor, Trouble Response

December 2010-November 2011

NV Energy

Led the effort to improve SAIDI and SAIFI for all of the Truckee Meadows area. This position was in charge of all of the trouble response personnel and two operations engineers. This position directly



coordinated with distribution planning to verify repetitive outages and analyzed data for power quality issues.

Project Manager

September 2008- December 2010

NV Energy

Position was responsible for transmission and substation projects both green and brownfield. Led multiple diverse teams to successful project completions ahead of schedule and under budget. Led multiple teams working on city, county state and federal permitting process requirements.

Operations Engineer

May 2005-September 2008

NV Energy

Position was embedded into the line construction crews and responsible for all distribution operations engineering. This position would coordinate repairs in real time, coordinate outages, protection coordination and prioritization of line restoration during storm and fire events. This position was also responsible for any real time accidents, and catastrophic failures impact reliability on the distribution system.

Distribution Design Engineer

September 2004-May 2005

NV Energy

Position was primarily responsible for rebuilding existing distribution and sub transmission lines for increased capacity and increased reliability to serve the growing electrical requirements during the housing boom in the Reno/Tahoe areas. This position was also responsible for design and coordination of new large commercial customers for both electric and gas service.

Field Engineer

September 2001-Septemeber 2004

SP Comm (NV Energy)

Position was responsible for installing and maintaining all SPC fiber optic sonnet rings in the Truckee Meadows area. Responsibilities also included design of new network architecture, outside plant design, construction bid packages, fiber splicing and restoration and new customer testing and turn up.

Field Engineer

September 1995-Septemeber 2001

Lucent Technologies

This position was primarily utilized to lead multiple two to four person crews. Position required strong knowledge in the installation and turn-up of AC and DC carrier class power systems, testing and turn-up of DACS and Lightwave systems, 5ESS central office installation and growth projects as well as 4ESS carrier class switching systems. This position coordinated between the engineering team in Alpharetta Ga and Bell Labs in Cherry Hill NJ.



Education:

Villanova University	Masters Certificate Organizational Leadership	Graduate Date: Aug. 2017
Willamette University	Utility Management Certificate	Graduate Date: Nov. 2016
University of Nevada, Reno	Masters Business Administration	Graduate Date: Dec. 2009
University of Nevada, Reno	Bachelor of Science, Electrical Engineering	Graduate Date: May 2005

Technical Skills

- Leadership Training R+
- Vistar Leadership I and II
- Pervasive P-3, P-6
- AutoCad
- DMS (ABB)
- OSI (EMS)
- Monarch

Community Awards & Activities

Western Underground	2006 thru current
NV Energy Foundation	2016 thru 2019
Great Basin Soccer League (Coach)	2014 thru 2019
CASA	2006 thru 2010
United Way Champion	2001 thru 2019
Eta Kappa Nu EE Honor Society President	2004 thru 2005
Institute of Electronics and Electrical Engineers, Member	2001 thru current



I write to you today to nominate Vishal Patel, Principal Manager of Integrated System Analysis at Southern California Edison Company, for the JGC at-large member position representing Class 1 members.

Vishal's statement of interest and qualifications to represent his fellow Class 1 members on the Joint Guidance Committee are provided below.

Dana Cabbell
Director, Integrated System Strategy

I believe I am well suited to represent Class 1 WECC members as their JGC at-large representative, to guide the technical committees in aligning with WECC's strategic direction and objectives. My professional experience, prior WECC participation and passion for the work our industry does has given me the type of perspective I believe will enable me to help to bridge the gap between strategy and action in the electric power industry and have a keen understanding of the challenges and opportunities we all face in the years ahead.

Professional Experience:

I have worked at SCE for more than 15 years, with roles in the Transmission & Distribution, Corporate Strategy, and Asset Strategy & Planning operating units. Throughout my career, I have worked on a variety of projects across all areas of the utility value chain (e.g. generation, transmission, distribution & customer/end-use).

I am currently a Principal Manager in the Asset Strategy and Planning ("AS&P") operating unit at Southern California Edison Company ("SCE"). I lead the Integrated System Analysis ("ISA") organization, responsible for performing the technical analyses associated with electric system planning, specifically those necessary to assure the safety and reliability of SCE's Transmission and Distribution systems, ranging from 500 kV down to 4 kV.

I started my career as a Power Systems Planner performing transmission planning studies on different portions of the SCE transmission system, which evaluated system reliability, generation interconnection, and inter-utility transfer capability issues, while also developing capital projects to maintain system reliability.

WECC participation:

My prior participation with WECC, including serving as Reliability Subcommittee (RS) Chair for 2+ years, have played a foundational role in my appreciation and understanding for the importance of WECC as it relates to Western Interconnection and the electric power industry.

Vision and Strategy:

While serving as Principal Manager for Corporate Technology Strategy at SCE, I led a group focused on developing roadmaps to inform technology demonstrations and pilots across the utility. As part of this function, I worked with my colleagues at SCE to publish the Reimagining the Grid (<https://www.edison.com/home/our-perspective/reimagining-the-grid.html>) and Mind the Gap (<https://www.edison.com/home/our-perspective/mind-the-gap.html>) whitepapers, identifying prospective challenges and opportunities for the electric utility industry.

Education and Credentials:

- B.S. in Electrical Engineering from California State Polytechnic University, Pomona, with a specialty in Power Systems.
- Registered Professional Engineer in Electrical Engineering in the State of California
- Member of the Institute of Electrical and Electronics Engineers (“IEEE”)
- Formerly held a NERC Reliability Coordinator certification.

Based upon the attributes mentioned above, I have the requisite depth and breadth of experience to represent my fellow Class 1 members. If successful in being elected as the Class 1 at-large member on JGC, I would work proactively to understand the concerns and positions of the members I represent and will reach out and collaborate on key issues as they arise.





Electric Reliability and Security for the West

John Phipps

Class 1

California Independent System Operator

I am currently serving as the Executive Director of Grid Operations where I am responsible for the CAISO BA Real Time Operations, RC West Real Time Operations, and the Operations training team. During my time with CAISO, I have been involved with many of the CAISO's strategic initiatives including the move to the nodal market design, EIM, coordination of the CAISO energy market and the various gas company's gas management, and implementing the RC West functions.

Prior to my work at the CAISO, I was with the Los Angeles Department of Water & Power. I started in the field at the bottom of a distribution pole and worked in several roles during my 13 years there, including Chief Operator at Sylmar Converter Station.

Over the past 20 years I have served on the WECC Operations Training Subcommittee, WECC Operating Committee, Electric Storage Task Force, and the SPP RC Certification team.

I believe my experience and knowledge make me an excellent candidate to help assess potential risks to grid reliability and suggest actions needed to adequately mitigate the risks. I have a limited number of years left in my career and would like to use them to help the industry prepare for and manage the many issues we are facing.



Electric Reliability and Security for the West

Kevin Conway

Class 2

Pend Oreille County Public Utility District

My name is Kevin Conway and I would like to nominate myself for the WECC Joint Guidance Committee Class 2 Member-at-Large. I am currently the Director of Compliance, Safety Engineering & Technology at the Pend Oreille County Public Utility District No.1 of Washington State. Our organization owns approximately 58 miles of Transmission in the extreme North Eastern part of Washington. We are situated between Bonneville Power Administration on the West, and Avista Utilities to our South.

I have been an active member in electric utility industry for over 35 years. I have held other positions that have include Hydro Power Plant Operator: Hydro Power Plant Maintenance; System Operator; Real-Time Marketer; Short-Term Marketer; Reliability Compliance Manager; NERC Readiness Auditor; Executive Vice-President of Operations; and, NERC CIP and Operations Consultant. My position at Pend Oreille PUD requires me to have a broad skillset and knowledge base. In addition to overseeing Compliance, Safety, Engineering and Technology, I am responsible for our FERC Dam Safety Program, directly oversee our System Operations staff, and am a Certified Physical Security Professional. I have been involved with almost every aspect of utility operation during my career.

I continue to be an active participant in many NERC, WECC, and sub-Regional organizations. In the past I have been an elected NERC Operating Committee Member that represented Transmission Dependent Utilities, State and Municipal Utilities, Small End Users and Large End Users. In all, I have spent approximately 12 years actively participating on the NERC OC. Additionally, I have been an active member of the WECC Operating Committee, Planning Committee and the Market Interface Committee, over my career. Sub-Regional participating includes past membership on the Northwest Power Pool Operating Committee, Transmission Planning Committee, Operator Training Subcommittee, and the Reserve Sharing Group.

I believe my broad experience will benefit the new WECC Joint Guidance Committee and help WECC to continue to evolve into an organization poised to meet the new challenges of operating the Western Interconnection. I can provide a much needed perspective relating to the challenges, concerns, and priorities of the Small Transmission Owner Segment. This includes helping to ensure that WECC's strategic objectives and Reliability Risk Priorities are consistent with the needs of the Small Transmission Owners, and balanced with the reliability needs of the other WECC Segments.

Sincerely,

Kevin Conway

Director, Compliance, Safety, Engineering and Technology

I nominate Dave Angell as an at-large member for the Joint Guidance Committee (JGC).

As many of you may know, Dave had an opportunity to help redefine WECC committees which resulted in the creation and implementation of the Reliability Assessment Committee (RAC). His strong diplomacy skills were paramount to the success of the RAC. The Chairman of the WECC Board acknowledged Dave's leadership through that transition with the inaugural WECC Chairman's award. I am still keenly interested in WECC's success and believe that Dave's knowledge and experience may benefit the WECC Joint Guidance Committee. His relevant experience follows.

During Dave's tenure at Idaho Power, he was involved with WSCC operating work groups and subcommittees in the 1990s and early 2000s. In 2006, he became a member of the WECC Planning Coordination Committee where he served as Vice-Chair prior to its transition to the RAC. Following the transition, Dave chaired the RAC for four years and was an active member of the existing JGC throughout that period.

Dave's first employment after college was in field operations at the Bonneville Power Administration (BPA). After two years, he joined Idaho Power Company for a 33-year career in engineering and management. He has managed departments consisting of field technicians, engineers, load forecasters, load researchers, and planners. Dave retired from Idaho Power in the role of Senior Manager of Transmission and Distribution Planning. In this role, he participated in strategic activities across the enterprise as exemplified below. I hired Dave in the role of Vice President of Regional Transmission Activities to work with the NWPP employees, members, executives, and our board of directors on NWPP's strategy.

Dave has been involved in strategic initiatives throughout much of his career. The following are some examples of his strategic activities while at Idaho Power:

- He participated in the:
 - 1996 Substation Department (operation, maintenance, construction, and engineering departments) reorganization of an incohesive regionally distributed management structure to one with centralized management:
 - Training of Brazilian engineers in small generation interconnection for an U.S. Agency for International Development effort to replace remote village diesel generator with solar, wind and low-head hydro,
 - Development of a community solar program offering,
 - Customer self-generation regulatory strategy and filing to replace a net meter tariff,

- National Association of Regulatory Utility Commissioners (NARUC) and the National Association of State Energy Officials (NASEO) Task Force on Comprehensive Electricity Planning;
- Idaho Power Strategy Committee comprised of executives and senior management which assessed, developed, proposed, and implemented corporate strategic initiatives;
- He led
 - Replacement of analog communications facilities with digital systems
 - American Recover and Reinvestment Act Smart Grid Grant proposal – a \$47M grant award that included smart meter, customer information, renewable energy forecasting, and synchro-phasor systems;
- He co-led:
 - BPA, Idaho Power and PacifiCorp joint development funding agreement for the Boardman to Hemingway 500 kV Transmission Line Project; and
 - The Idaho Power and PacifiCorp transmission facilities exchange which included hundreds of miles of 500, 230, 161, and 138 kV lines and many substation assets.

Dave provides creative and valuable strategic input here at the NWPP and would be a genuine asset to the WECC JCG. Thank you for considering my nomination.

Frank Afranji

President

NWPP, a WECC Class 3 organization



Andy Meyers

Class 3

Bonneville Power Administration

I am seeking the opportunity to be the Class 3 at large member of the WECC Joint Guidance Committee.

I have been with the Bonneville Power Administration for over twenty years. During my tenure I have been a lead day-ahead scheduler, the day-ahead Preschedule supervisor, and most recently a policy lead for the Trading Floor. While at Bonneville, I have led several cross agency implementation teams in which I have designed the implementation of Bonneville's Loss Waiver process, lead the implementation and acquisition of third party balancing reserves, and am currently co-leading numerous changes to Bonneville's Real Power Losses program.

I has also been significantly involved in WECC committees and activities for the last twelve years. I have represented Bonneville's class three interests as a Transmission Customer in the Interchange Scheduling and Accounting Subcommittee (ISAS) and the Market Interface Committee (MIC). During my involvement with WECC I have been fortunate to lead drafting teams (Preschedule Calendar Guideline), lead subcommittees (ISAS vice-chair & chair), and lead a standing committee (MIC vice-chair & chair).

I recognize the energy industry is experiencing rapid changes due to climate change and the urgent need to decarbonize many aspects of our industrial and technological society. The establishment and expansion of organized markets in the interconnection have added yet another level of complexity to reliability in the interconnection. The recent committee restructuring aims to be agile and keep stakeholders aware of reliability challenges and the rapidly changing aspects in the energy industry. The JGC will be collaborating with the committees and ensuring focus on key and emerging issue impacting reliability and stakeholders throughout the interconnection. Being an "at large member" of the JGC offers an exciting opportunity in which I can contribute my experience and knowledge to help WECC and all the various stakeholders reliably address the rapidly evolving energy landscape.

I appreciate you considering me for the Class 3 at large seat on the Joint Guidance Committee.

Thank you,

Andy Meyers



Shaun Rohret

Class 3

NAES Corporation

I am interested in being a Class 3 At Large Joint Guidance Committee member. Aligning the Technical committees with WECC's strategic direction, will help to ensure a strong connection among the organization's mission and its operational resources. Also it will help to address potential issues with internal efficiencies and effectiveness.

As a Senior NERC Compliance Specialist I have experience working with clients to align technical work with the strategic direction of the owner and operator to maintain compliance with NERC reliability standards. The ultimate goal is to ensure reliability at each plant which in turn supports reliability of the Grid. I am familiar with WECC's committee structure, and have over 10 years of experience managing NERC Compliance Programs in many different Regions in the US and Canada, including WECC. From this experience I have an understanding of many of the risks facing the industry. My experience managing multiple projects simultaneously requires me to consider diverse perspectives from professionals with both technical and non-technical expertise.

Thank You for your consideration.



Kenneth Silver

Class 3

8minute Solar Energy

I have nearly 48 years of experience in the power industry. My focus has always been providing safe, reliable, cost effective, and environmentally responsible energy to utility customers. My first 43+ years was in power operations with the Los Angeles Department of Water and Power. My experience included station operations, power system operations including generation control, transmission and distribution operations and organizational management. My last position with LADWP was Director of Power Supply Operations where I oversaw operation of the company owned thermal, hydro-electric, renewable generating assets, transmission and distribution substations and the utility's Energy Control Center.

Since 1996, I have been active in the Western Electricity Coordinating Council (WECC) where I served on the Operating Committee and chaired the Operating Practices and Event Analysis Subcommittee. I also participated in several disturbance reports and the former WSCC Readiness Audits. The past four years, I have worked as the Vice President of Storage Operations & Reliability for 8minute Solar Energy. In this capacity, I work to ensure that new photo-voltaic solar, storage, and hybrid solar + storage seamlessly integrate into customers generation portfolio and serve to maintain or improve system reliability. While at 8minute, I have continued to serve on the Operating Committee and am chair of the Energy Storage Operations Task Force.

Serving on the JGC will provide me an opportunity to continue contributing to WECC's progress towards ensuring the reliability and integrity of the Western Interconnection.

Since 1967 I have been continuously involved in system planning and transmission line design and construction. Some examples:

1. System Planning
 - a. 1993- Aug. '95: Monenco, Montreal, Canada. Project Manager for an advisory project with the Ministry of Electric Power, China. The project involves the planning of electric power generation and transmission with a 25-year planning horizon for five provinces of South China (Guangdong, Guangxi, Guizhou, Sichuan, Yunnan). The project included advice to and training of Chinese engineers in North American planning techniques.
 - b. Sept. 1995 to 2009: Independent Consultant, participation in design and cost estimation of various power transmission schemes. Among them (2008) for Rio Tinto preliminary design and cost estimation of 735 kV ac and +/-450 kV dc transmission lines (1500 km long including submarine crossing) from Labrador (Canada) to Boston area.
 - c. In 2016 for the African Development Bank conduct a review of the transmission system of Mozambique and propose solutions to severe overloading and daily trippouts of transmission lines supplying the capital Maputo City.
 - d. From November 2017 to January 2019: Consultant to the African Development Bank. As part of a three-member team (system planner, economist, financial advisor) conducted a power sector assessment of thirteen Eastern Africa countries.
2. Transmission Line Design
 - a. In 1977 participated in the design of the proposed +/-450 kV Gull Island HVDC transmission line from the Lower Churchill to St. John's (Newfoundland and Labrador).
 - b. In 1978, located in Rio de Janeiro, participated in the design of the +/-600 kV, 800 km long, HVDC Itaipu transmission lines.
 - c. 1992-1993: Canada China Electric Power Consultants, Winnipeg, Canada. Project Director for a study evaluating the benefits of an interconnection between two electrical grids in East China.
 - d. 2009 to 2010: Consultant to RSW Inc. (now AECOM) for ATCO Electric (Alberta) in the planning and design of 500kV HVDC and 500 kV ac transmission systems.
3. Other
 - a. 2009 to 2010: Course development and lecturer at the University of Victoria (British Columbia) in Electrical Power Systems (4th year engineering students)



Vijay Satyal

Class 4

Western Resource Advocates

Please accept my self-nomination to be a Class 4 at-large representative to the reorganized JGC with the focus on aligning the tactical work priorities of the technical committees with the strategic goals and direction of WECC, as an organization. I've had the pleasure to serve on the MAC since Fall 2020 and developed a good appreciation of the key roles of MAC: providing timely updates and being a conduit for WECC Board for Directors with that of WECC members in regards to issues facing the Bulk Power System; partnering with the Board to develop and implement the "Annual Member" meeting agenda each year.

Currently, I serve as the Regional Markets team Manager, for the Western Resource Advocates (WRA), a Class 4 WECC member, non-governmental organization with a focus on regional grid expansion and markets coordination that assures and enhances, bulk power reliability. In this role with WRA, I am actively engaged in not only regional market expansion efforts but also reliability assessment efforts that reflect western state level policy goals, grid de-carbonization and technology adoption scenarios, and coordination of near and long-term data improvements for reliability assessments. My work at WRA also dovetails closely with markets related trending stakeholder activities at WECC in the operational planning space (i.e. storage assessment) and especially, with the reliability assessment and data collection work that is under the purview of the Reliability Assessment Committee ("RAC").

My interest in serving on the JGC is motivated by three key reasons. First, my prior work experience and familiarity (as Sr. Policy Advisor at WEC) with the technical work priorities, data-collection, and reliability assessments at WECC. I am quite familiar with WECC priorities, scope and also the NERC obligations of WECC as a Regional Entity. During my four years at WECC, I was fortunate to engage in day-to-day stakeholder engagement efforts that led to the formation of the RAC (i.e. consolidation of the TEPPC and PCC groups) and executing the study programs. This affords me an institutional knowledge and perspective on the RAC – its evolution, strategic goals – and evolving priorities to meet the needs of a dynamic Western Interconnection. My work duties at WECC also included the facilitation of the build out of the 1st cycle of the Anchor Data Set as a liaison to the Anchor Data Set Task force (ADSTF) and its recent review, for the RAC, that I facilitated in a voluntary capacity. Second, I am familiar with the current RAC processes and study program protocols. As a case in point, I have served on the 2019 RAC Study Program as a Study Lead (led the El-Paso Natural Pipeline Gas Disruption study process) and gained insights into the newer approach to reliability assessments and the nature of partnerships that are required between WECC Staff, data providers, WECC members, and public stakeholders at large. Third, I am fortunate to have acquired over 14 years of experience in resource planning, regional transmission and regulatory policy issues and policy impact assessment of regional grid expansion initiatives that is critical perspective to offer, in reflecting the public interest

and consumer (wholesale and retail ratepayer) sector needs, as WECC bridges the gap between Board approved strategic priorities and the actual deliverables that are executed by the technical committees.

In closing, my desire to serve as a Class 4 at-large member on the JGC, stems from a fundamental interest in ensuring that WECC priorities and strategic goals are reflected in the actual work plans and addresses the core reliability challenges of the Western Interconnection. By channeling the MAC (public and consumer interest) needs to the JGC, I hope to be able to enhance or rarify the work plans of WECC Committees in ways that also reflects the trending technology advancements, policy drivers, unexpected weather events, and societal expectations of end users (as customers). I look forward to hearing from you.



Chris Parker
Class 5

Utah Division of Public Utilities

I am seeking election as the Class 5 representative to the Joint Guidance Committee to help ensure the diverse set of Class 5 member perspectives animates the work of WECC's technical committees as they fulfill WECC's mission. As the director of the Utah Division of Public Utilities, I have spent ten years actively involved in interstate utility issues. Whether in PacifiCorp's multi-state negotiations for common allocation methods or in other regional issues, I have sought to ensure interstate processes respect states' varying policies.

My agency hasn't been as involved in WECC as we would have liked in past years, but we have been following the committee review process and think the new structure is likely to be an improvement. The changes should enable better participation by entities like ours who can't often dedicate full-time staff to every effort. It is critical that the new committee work get off on a good footing and I would love to be part of it. I think the JGC is an especially interesting part of WECC's new committee structure, with its focus on ensuring the technical committees remain aligned with the board's direction and the overall reliability mission.

We face significant challenges in our ongoing energy transition and WECC will be an important forum for avoiding and solving many of them. While state policies may differ, so many issues facing the west are common to all our organizations and the utilities operating in our areas of responsibility. I'm happy to lend whatever expertise I can to the effort to help our energy transitions run smoothly.