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CONSORTIUM
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SOUTHWEST ENERGY CONFERENCE

NOVEMBER 13-14, 2019

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ARIZONA ENERGY CONSORTIUM 8TH ANNUAL GOLF SCRAMBLE



SAVE THE DATE!

The Legacy Golf Club

Friday, May 29, 2020

Registration: 6:30AM Shotgun Start: 7:30AM

www.ArizonaEnergyConsortium.com

The Arizona Energy Consortium is pleased to welcome you to the **2ND ANNUAL SOUTHWEST ENERGY CONFERENCE**

The Arizona Energy Consortium (AEC) is excited to bring together developers, utilities, non-governmental organizations, policy makers, regulators, financiers, technical consultants and the many other participants in the energy industry to discuss the profound changes happening in the Southwest energy market.

The AEC was established in 2011 to promote and seek opportunities to collaborate within the energy industry to: 1) drive economic development, 2) support technological development and 3) provide a credible voice for Arizona's energy industry. Arizona is a key participant in the Southwest energy market, where its utilities provide reliable, cost effective and secure power, while also benefiting from the resources of other states and nations.

As the Southwest electricity market has grown and transformed over the past decade, the regional issues facing the market have become more pronounced. With the benefits realized by participants in the recent introduction of the energy imbalance markets, many have found further exploration to be warranted. A market that can better utilize geographically and technologically diverse resources may be able to provide more reliable, secure, sustainable and cost-effective power to all participants. Without sound strategies and coordination, however, many opportunities to strengthen the regional market may be forsaken.

The AEC is pleased to provide this opportunity to bring the regional industry stakeholders together to share ideas that will allow more collaboration and understanding to build a stronger framework for a regional network. On behalf of our sponsors and all supporting partners, we welcome you to the Southwest Energy Conference.

Kind regards,

Michelle De Blasi, Executive Director

Look for more exciting events and networking opportunities in 2020!

Monthly Forums are held every month at:

Fennemore Craig
2394 East Camelback Road
Suite 600
Phoenix, Arizona 85016

Please visit the Events page at
www.arizonaenergyconsortium.com/events/

For more information, please contact us at
info@azenergyconsortium.com

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Southwest Energy Conference Overview

NOV
13

WEDNESDAY, NOVEMBER 13, 2019

7:00 – 8:15 am Breakfast & Networking

8:15 – 8:30 am Opening Remarks

Doug Little, Senior Advisor, Office of Electricity, Department of Energy

8:30 – 9:30 am Regionalization and the Future of Transmission in the West

What are the recent developments in regionalization of the energy markets related to decarbonization and what are the future transmission infrastructure needs for the Western markets?

Moderator:

Brent Gale, Executive Vice President and Principal, StrataG Consulting

Panelists:

Margaret Miller, Director of Regulatory Affairs and Market Development, Avangrid Renewables

Mike Niggli, Chairman of the Board, ESS, Inc.

Ali Amirali, Senior Vice President, Starwood Energy Group Global, Inc.

9:30 – 10:30 am Customer Perspective: Changing Customer Loads

How have changes in customer loads – such as data centers, electric vehicles and increased integration of distributed solar energy – impacted customer needs from utilities?

Moderator:

Michelle De Blasi, Senior Environmental and Energy Attorney, Fennemore Craig

Panelists:

Noah Pennington, Engineering Director, Distributed Energy Solutions, GE Renewable Energy

Patrick Lee, CEO - PXiSE Energy Solutions

Aparna Mohla, Staff Learning & Development Partner, Tesla

Stuart Taubman, Vice President, Dark Fiber West, Zayo Group

10:30 – 11:00 am Coffee & Networking Break

11:00 am – Noon Utility Perspective: Changing Load Profiles

Given changing customer load profiles, how are utilities adapting their services to meet their customers' needs?

Moderator:

Lee Krevat, Krevat Energy Innovations

Panelists:

Jeff Burke, Director of Resources Planning, APS

David Fuller, Director Business Development & Origination, The Anschutz Corporation/Power Company of Wyoming

Jerome Davis, Regional Vice President, Xcel

Angie Bond-Simpson, Manager, Resource Analysis and Planning, SRP



Southwest Energy Conference Overview

NOV
13

WEDNESDAY, NOVEMBER 13, 2019

12:00 – 1:00 pm

Lunch & Networking

1:00 – 1:30 pm

Brief Remarks

Gary Gold, *Policy Advisor – Natural Resources, U.S. Senator Kyrsten Sinema*

Keynote Speaker

Commissioner Brenda Burman, *United States Bureau of Reclamation*

1:30 – 2:30 pm

Energy/Water Nexus & Drought Contingency Plan

How are utilities and other regulators adapting to balance water conservation with the increased energy needs in the West? What are the implications of the Drought Contingency Plan on these efforts?

Moderator:

Cheryl Lombard, *President and CEO, Valley Partnership*

Panelists:

Kevin Black, *Program Manager, Bureau of Reclamation*

Patrick Dent, *Manager, Water Control, Central Arizona Project*

Paul Orme, *Salmon, Lewis & Weldon*

Sandra Fabritz, *Director of Water Strategy, Freeport McMoran*

2:30 – 3:00 pm

Coffee & Networking Break

3:00 – 4:00 pm

Tribal Energy Issues

How are Tribal Communities meeting the energy needs of their communities, and integrating new energy resources into their energy mix?

Moderator:

Margie Schaff, *Kanim Associates LLC*

Panelists:

Dr. Karin Wadsack, *Program Manager, National Renewable Energy Laboratory*

Leonard Gold, *General Manager, Gila River Indian Community Utility Authority*

John Lewis, *Chairman of the Board Of Directors for the Gila River Indian Community Utility Authority*

Pi-Ta Pitt, *Tribal Utility General Manager, Pechanga Western Electric*

4:00 – 5:00 pm

Impact and Future of EIMs as Regional Markets

As more participants join the CAISO EIM, what are the real-world implications? What are the challenges still to be resolved related to governance and day-ahead planning for EIMs?

Moderator:

Mark Smith, *VP, Calpine*

Panelists:

Don Fuller, *Director Strategic Alliances, CAISO*

Carl Monroe, *Executive Vice President and Chief Operating Officer, Southwest Power Pool*

Bobby Olsen, *Director of Supply and Trading & Fuels, SRP*

5:00 – 5:10 pm

Closing Remarks

5:15 pm

Reception



Southwest Energy Conference Overview



THURSDAY, NOVEMBER 14, 2019

7:00 – 8:15 am

Breakfast & Networking

8:15 – 8:30 am

Opening Remarks

Jim Ogsbury, Executive Director, Western Governors Association

8:30 – 9:30 am

Future of Energy Innovation

What are some of the most significant innovations in energy technologies and their impacts on the decarbonization of the West?

Moderator:

Gene Jensen, Arcadis

Panelists:

Pat Graham, Arizona Director, The Nature Conservancy

Gerry DaRosa, Director of Energy Innovations, Arizona State University

Eran Mahrer, V.P. Marketing Origination and Government Affairs, First Solar

9:30 – 10:30 am

Utility Safety in the Wake of PG&E

How are utilities and regulators exploring ways to ensure safe energy generation and transmission in the wake of recent incidents?

Moderator:

Kyle McNamara, Director, Power & Utilities Management Consulting, KPMG

Panelists:

Stewart Ramsay, Managing Executive, Vanry & Associates

Arun Mani, Principal, KPMG Strategy and Power & Utilities US Leader

Mike Heffernan, Managing Director, Exec. VP, Construction Service Group, Alliant Insurance

10:30 – 10:50 am

Coffee & Networking Break

10:50 – 11:50 am

Energy and National Security

What are the most significant threats to energy and national security, and how are those threats being addressed?

Moderator:

Chris Shepherd, Information Security Manager, Principal, Cyber Security Compliance, Gannett Fleming

Panelists:

Doug Little, Senior Advisor, Office of Electricity, Department of Energy

Tony Montoya, Centauri

Paul Julian Jr., Maj., Mission Assurance Integration, United States Air Force

11:50 – Noon

Closing Remarks

PANELISTS AND MODERATORS



ALI AMIRALI

SENIOR VICE PRESIDENT, STARWOOD ENERGY GROUP

Mr. Amirali is responsible for the expansion of Starwood Energy Group's StarTrans high-voltage transmission assets, as well as for new business/project opportunities in the transmission and distribution arena in North America. He also supports the origination, development and acquisition

activities associated with utility-scale power generation, biomass/biofuel, transmission and storage projects. Mr. Amirali has over 29 years of experience in the power and energy sector with emphasis in transmission and generation development and operations, power marketing and contracts, regulatory compliance, and market design. He has held a variety of key technical and leadership positions at Element Power, LS Power, Calpine Corp., California Independent Systems Operator and Pacific Gas and Electric Company.



KEVIN BLACK, SR.

CHIEF, PROGRAM DEVELOPMENT DIVISION, U.S. BUREAU OF RECLAMATION

Mr. Black has 35 years of tenure with Bureau of Reclamation. He holds a B.S. Business Management - University of Phoenix, and is currently obtaining his Masters at Grand Canyon University completing an MPA with emphasis on Government and Policy.



ANGIE BOND-SIMPSON

MANAGER OF RESOURCE ANALYSIS & PLANNING, SALT RIVER PROJECT

Ms. Bond-Simpson oversees a team of 17 highly skilled individuals who perform analysis for long-term resource strategy. Over the last year, her team has been on the forefront of innovation at SRP, accelerating the adoption of 1000MW of utility scale

solar PV into SRP's generation portfolio. Her group also spearheaded studies to analyze battery storage capacity value and develop reliability expectations for these resources.



JEFF BURKE

DIRECTOR OF RESOURCE PLANNING, ARIZONA PUBLIC SERVICE

For over 20 years, Jeff has been a leader in the energy industry with a background spanning resource planning, market analysis, forecasting, ratemaking, and regulatory policy. In his current role as Director of Resource Planning, Jeff is responsible for ensuring

sufficient resources are available to meet customer demand within APS's broad service territory. Prior to this role in Resource Planning at APS, Jeff held leadership positions in Resource Planning and Load Forecasting at Dominion Resources.



BRENDA BURMAN

COMMISSIONER, U.S. BUREAU OF RECLAMATION

Brenda Burman is the 23rd Commissioner for the Bureau of Reclamation. As the first woman sworn in to lead Reclamation, Commissioner Burman has more than 25 years of experience working on western issues, with an emphasis on water and natural resources. Her career spans experience in Congress

as legislative counsel for water and energy for Senator Jon Kyl to state agencies, including The Metropolitan Water District in Southern California and SRP in Arizona. The Bureau of Reclamation is a contemporary water management agency and the largest wholesale provider of water in the country.



GERRY DAROSA

DIRECTOR OF ENERGY INNOVATIONS, ARIZONA STATE UNIVERSITY

Mr. DaRosa spearheads ASU's efforts in reaching its climate neutrality goals. His diverse career experience includes public policy, business, technical, and legal work. After graduating from ASU with a degree in chemical engineering, Mr. DaRosa worked for the Dow

Chemical Company as a Process Research Engineer. He spent 16 years in the legal/policy arena in both private practice and the public sector. He has served as the Environmental Policy Advisor for the Arizona Department of Environmental Quality, an environmental law partner for the international firm Bryan Cave, and an Associate General Counsel for ASU.



JEROME DAVIS

REGIONAL VICE PRESIDENT, PUBLIC SERVICE COMPANY OF COLORADO, AN XCEL ENERGY COMPANY

Mr. Davis has executive leadership responsibility for local government affairs in 165 communities located throughout CO. He oversees the managed accounts of the company's largest business customers, which account for more than \$1 billion in annual revenue.

Mr. Davis is also responsible for providing strategic leadership for the management of community relations and economic development for the CO jurisdiction. He has broad experience with the utility, working in substation engineering, corporate accounting, sales and marketing, and supplier diversity.



MICHELLE DE BLASI

DIRECTOR, NATURAL RESOURCES, ENERGY & ENVIRONMENTAL LAW, FENNEMORE CRAIG

Ms. De Blasi advises clients on permitting, siting and contractual agreements for energy generation projects, including traditional and alternative energy, as well as carbon emissions tracking and reporting. She has also worked at the federal, tribal and state levels on

various environmental issues, including hazardous waste, air quality, water quality, environmental health and safety, real property due diligence, utility regulation, natural resource damage issues, asbestos, and underground storage tank regulation. Ms. De Blasi is the Executive Director of the Arizona Energy Consortium and was a founding member in 2011. She is listed in Chambers USA®, Leading Lawyers for Business, Best Lawyers in America® for Environmental and Energy Law, and Southwest Super Lawyers®.

**134 YEARS. 29 ATTORNEYS.
ONE FOCUS:
OUR CLIENTS' ENERGY ISSUES**

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The Mountain West has unique energy needs and opportunities. At Fennemore Craig, our team of recognized counselors helps our clients navigate their energy projects that will impact communities and businesses for generations to come.



Michelle De Blasi
Attorney
mdeblasi@fclaw.com | 602.916.5496

Visit us at **FennemoreCraig.com**.



PATRICK DENT
DIRECTOR OF WATER POLICY, CENTRAL ARIZONA PROJECT

Mr. Dent oversees CAP's Colorado River Programs, Resource Planning & Analysis and the Central Arizona Groundwater Replenishment District. His group is responsible for working closely with the General Manager, the Board of Directors, and stakeholders for long-range planning, policy analysis, development and

program implementation for the CAP Service Area, the Colorado River and the CAGR. CAP is AZ's largest renewable water supply and serves 80% of the state's population. Mr. Dent joined CAP in 2000 as a civil engineer and since then has held numerous leadership positions, including supervisor of Engineering Resources, supervisor of Water Systems and Manager of Water Operations.



SANDY FABRITZ
DIRECTOR OF WATER STRATEGY, FREEPORT McMORAN

Ms. Fabritz has been in water planning, administration and policy development in Arizona and the Southwest US for over 25 years. She currently oversees water strategy and policy for Freeport McMoRan, the world's largest publicly traded copper producer headquartered in Phoenix, Arizona. Prior to her current role, Ms. Fabritz

served as the Director of the Arizona Department of Water Resources under then Governor Jan Brewer.



DAVID FULLER
DIRECTOR BUSINESS DEVELOPMENT & ORIGATION, THE ANSCHUTZ CORPORATION/POWER COMPANY OF WYOMING

Mr. Fuller started his career as a Petroleum Geologist. He then joined the energy trading and marketing group at Public Service Company of Colorado (now Excel). He subsequently joined Enron North America as a Director of Business Development, structuring and marketing

power and gas transactions for utility customers in the Western US. He later held similar positions in the trading and power development divisions of Constellation Energy, Barclays Capital and EDF Renewables. In May 2019, he joined The Anschutz Corporation as Director of Business Development and Origination.



DON FULLER
DIRECTOR OF STRATEGIC ALLIANCES, CALIFORNIA INDEPENDENT SYSTEM OPERATOR

Mr. Fuller is Director of Strategic Alliances and has also led ISO efforts to expand regional collaboration across the west, including development of the energy imbalance market. He led the ISO team integrating Nevada-based Valley Electric Association into the ISO in January 2012.

Mr. Fuller was part of the original start-up team at the ISO and has served as Director of Customer Services and Stakeholder Affairs and Director of Settlements. Before joining the ISO, Mr. Fuller worked at Westinghouse Electric and held leadership positions in the Power Generation and Nuclear Business Units.



BRENT GALE
PRINCIPAL AND SENIOR ENERGY CONSULTANT, STRATAG CONSULTING, INC.

Drawing upon his decades of experience with state and federal regulation and legislation, Mr. Gale provides strategic regulatory policy, rate design, government affairs and legislative drafting services. He has held various executive positions with Berkshire Hathaway

Energy Co., its predecessor and affiliates, including Senior Vice President – Legislation, Regulation & Strategy and Vice President – General Counsel, and led the team that secured regulatory approvals from six states in ten months for the acquisition of PacifiCorp by the predecessor of Berkshire Hathaway. He has litigated or had ultimate responsibility for results in hundreds of rate cases, regulatory proceedings and associated appeals in 10 states.



GARY GOLD
POLICY ADVISOR FOR NATURAL RESOURCES, U.S. SENATOR KYRSTEN SINEMA

Mr. Gold applies a diverse background in engineering and law to advise Senator Sinema on water, energy, and lands issues. His career includes experience as a Water Resources Engineer at a large utility, Research Fellow at the National Science Foundation, Natural Resources Law

Clerk in private practice, and Water Law Fellow in the U.S. Senate.



LEONARD GOLD
GENERAL MANAGER, GILA RIVER INDIAN COMMUNITY UTILITY AUTHORITY

Mr. Gold has over 47 years of utility and consultant experience in utility operations and maintenance, power supply, service agreements, scheduling and dispatching, metering, reserve requirements, energy banking, future power requirements and rate structures. He authored a

handbook Establishing A Tribal Utility Authority in 2012. Mr. Gold is also the President of the Arizona Tribal Energy Association and the Southwest Public Power Agency.



PATRICK J. GRAHAM
ARIZONA STATE DIRECTOR, THE NATURE CONSERVANCY

Since July 2001, Mr. Graham has led the Conservancy's statewide staff and programs to conserve Arizona's natural diversity, partnering with citizens, agencies, businesses, policymakers and landowners. The Arizona Chapter is currently focused on restoring healthy forests, preserving rivers and sources of water, building healthy

cities, and promoting clean air and energy. Prior to joining the Conservancy, Mr. Graham was Director of the Department of Fish, Wildlife and Parks in Montana. He served as president of the Western Association of Fish and Wildlife Agencies and president of the International Association of Fish and Wildlife Agencies.

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MICHAEL J. HEFFERNAN
EXECUTIVE VICE PRESIDENT, ALLIANT SPECIALTY -
CONSTRUCTION SERVICES GROUP

Mr Heffernan is responsible for the Construction, Energy and Real Estate segments for the Western US. He has over 27 years' experience in the design, marketing, implementation and management of some of the largest commercial and social infrastructure development

projects throughout the country. Mr. Heffernan and his team have developed project specific and portfolio risk transfer programs for many high profile developers, representing both debt and equity stakeholders. Prior to joining Alliant, Mr. Heffernan spent 17 years at Aon Risk Services where he was an Executive Vice President in the Construction Services Group, overseeing construction, energy and real estate risk advisory for the Western United States.



GENE JENSEN
TRANSMISSION PRINCIPAL IN CHARGE ARCADIS

Mr. Jensen has 38 years of professional experience with companies such as Iberdrola USA, American Electrical Power and AVANGRID. He has managed all phases of electric power delivery: Generation, Transmission, Substation and Distribution. He has a thorough understanding of both the hands-on maintenance and

operations as well as the engineering and design efforts that go into power delivery. Mr. Jensen also has a proven track record of superior execution, leadership, teamwork, communications and process improvement.



MAJOR PAUL D. JULIAN JR.
MISSION ASSURANCE INTEGRATION MANAGER OF THE
FACILITIES DIVISION, DIRECTORATE OF CIVIL ENGINEERS,
HEADQUARTERS AIR FORCE PENTAGON – WASHINGTON D.C

Major Julian is responsible for Control System Cybersecurity and Energy policy, oversight, funding advocacy, and engagements with outside agencies affecting 183 Active, Reserve, and Guard bases

worldwide valued at more than \$277 billion. He has served in a variety of squadron-level civil engineer assignments, on a major command staff and as a professional military education instructor. Prior to his current position, Major Julian was the Operations Flight Commander, 87th Civil Engineer Squadron, 87th Civil Engineer Group, 87th Air Base Wing, Joint Base McGuire-Dix-Lakehurst, New Jersey.



LEE KRAVAT
FOUNDER AND CEO OF KREVA ENERGY INNOVATIONS

Mr. Kravat leads a company dedicated to climate change mitigation by participating on boards and advising and consulting with start-ups, utilities, regulators, legislators, and environmentally focused companies and communities. Mr. Kravat has over three decades of experience in the energy and technology industries.

While working at San Diego Gas & Electric Company, a subsidiary of Sempra Energy, he founded and served as director of smart grid and led SDGE's smart grid and electric vehicle initiatives, evangelizing grid modernization and electric vehicle grid integration. He was twice named one of the top 100 movers and shakers influencing the smart grid market by GreenTech Media and twice recognized as a Top 12 Utility Mover and Shaker and Utility Champion by Intelligent Utility Magazine.



PATRICK LEE
FOUNDER AND CEO, PXISE ENERGY SOLUTIONS

Mr. Lee is CEO of PXISE Energy Solutions, a subsidiary of Sempra Energy with an investment by Mitsui & Co., Ltd. He has over 30 years of energy industry experience in electric system planning, design, construction, operations, energy markets, renewables, and technology RD&D. Mr. Lee completed a \$1.8B, infrastructure project

with 19 awards and has led successful business operations and innovation projects throughout this career. He has led major projects for Sempra Energy, a San Diego-based Fortune 500 energy services holding company and supported the Sempra Energy family of companies in USA, Mexico, and South America, providing oversight and governance for large construction projects, including standardizing processes, controls, and reporting.



JOHN LEWIS
EXECUTIVE DIRECTOR OF TRIBAL CLIENT DEVELOPMENT,
AVANT ENERGY (MINNEAPOLIS)

In addition to his role at Avant Energy, Mr. Lewis serves as a Community Council-appointed official for the Gila River Indian Community in two capacities: Chairman of the Board of Directors for the Gila River Indian Community Utility Authority (GRICUA) as well as serving

on the Board of Directors for Gila River Telecommunications Inc. (GRTI). Mr. Lewis has over ten years of development and planning experience with tribal energy and infrastructure projects. He is an enrolled member of the Gila River Indian Community.



DOUG LITTLE
SENIOR ADVISOR, OFFICE OF ELECTRICITY, US
DEPARTMENT OF ENERGY

Mr. Little's primary focus is on Defense Critical Energy Infrastructure. He was formerly the Deputy Assistant Secretary for Intergovernmental and External Affairs for DOE. The Office of Intergovernmental and External Affairs facilitates stakeholder access to Departmental

energy policies and program, informs the Secretary and other Department officials on stakeholders' energy issues and interests. Prior to the DOE, Little was a member of AZ Corporation Commission for three years, and was Chairman in 2016. He also served as the Vice Chairman of the Western Energy Imbalance Market Body of State Regulators and represented the ACC on the Western Interstate Energy Advisory Board.



CHERYL LOMBARD
PRESIDENT AND CEO, VALLEY PARTNERSHIP

Ms. Lombard leads Valley Partnership, a trade association advocating for responsible development, in Phoenix, Arizona-metro area. Since joining Valley Partnership in 2015, she has received recognition as one of Arizona Real Estate Magazine's Most Influential Women in Commercial Real Estate and Commercial

Executive Magazine's Women in Power. She also represents the real estate development industry as a member of the Arizonal Steering Committee for the Lower Basin Water Drought Contingency Plan (DCP) and Governor Ducey's Water Augmentation Council. Previously, Ms. Lombard was the Government Relations Director for The Nature Conservancy in Arizona.

KPMG

From
managing risk
to building
resilience

While resilience may not be easy to define, understanding the attributes of a resilient organization will enable a utility to operate, inspect, and maintain its assets to achieve the greatest risk reduction while being compliant and meeting the regulatory prudence threshold.

KPMG Global Energy Institute
<https://institutes.kpmg.us/global-energy.html>



ERAN A. MAHRER
VP- MARKET ORIENTATION AND GOVERNMENT AFFAIRS,
FIRST SOLAR

Mr. Mahrer leads the First Solar's engagement with utilities and generation asset owners leading the company's efforts at originating project and energy sales with these customers. In supporting utilities' deployment of solar, Mr. Mahrer establishes and maintains

relationships with utilities, engages in strategic planning, integrated resource planning and program design initiatives. He is also responsible for First Solar's State Government Affairs organization, engaging nationally in working to ensure that solar energy resources are appropriately considered and leveraged as part of the nation's sustainable energy transition. Mr. Mahrer and his team work across all stakeholder groups to ensure that solar technologies are well understood, appropriately valued and thoughtfully integrated.



ARUN MANI
PRINCIPAL, STRATEGY AND POWER & UTILITIES US
LEADER, KPMG

Mr. Mani operates at the intersection of regulation, risk and return in the power and utilities sector to advise industry leaders worldwide on a variety of current topics. Across two decades of distinguished consulting work, he has helped clients drive growth, make strategic

decisions, and build competitive advantage, working side by side with industry leaders.



KYLE McNAMARA
DIRECTOR, POWER & UTILITIES MANAGEMENT
CONSULTING, KPMG

Mr. McNamara is an executive management consultant with over 20 years of experience helping companies transform their operations to address industry changes. He provides financial, operational, regulatory, and business process improvement management

services to clients in the utility, telecom, transportation, financial services, manufacturing, and other industries. Mr. McNamara is a recognized thought leader in the areas of smart energy management, smart grid, and the intersection of business and technology.



MARGARET MILLER
DIRECTOR OF REGULATORY AFFAIRS, AVANGRID
RENEWABLES

Ms. Miller is responsible for advising the company on regulatory and policy matters in organized and bilateral electricity markets across the Western United States. Prior to joining Avangrid, Ms. Miller held various positions in the electric power industry with Customized Energy

Solutions, Brookfield Renewable and the California ISO where she was responsible for managing regulatory affairs, market design and other policy related programs.



APARNA MOHLA
STAFF LEARNING & DEVELOPMENT PARTNER, NORTH
AMERICA SALES, TESLA

Ms. Mohla has been with Tesla/Solar City for over 7 years with roles ranging from leading North America as the top solar consultant, to managing sales teams, to teaching Tesla Advisors how to develop their business.

Over the last year, she has had the opportunity to apply these skills to leadership development where she extensively facilitates leadership workshops for managers across North America. Ms. Mohla was awarded the coveted MVP Jersey for top sales in 2014 and was featured in Arizona Republic's "Who's Who in Business – Top Ranking Women in Arizona" two years in a row – 2015 and 2016.



CARL A. MONROE
EXECUTIVE VICE PRESIDENT AND CHIEF OPERATING
OFFICER, SOUTHWEST POWER POOL

Mr. Monroe has been with Southwest Power Pool since September 1997 and is currently responsible for Operations, Engineering, IT, Interregional Coordination, and Market Design. Prior to joining SPP, Carl served with Entergy of New Orleans, LA and Ameren of St.

Louis, MO in various management and engineering positions including forecasting; EMS advanced applications; and in EMS development. SPP's footprint includes 48,930 miles of transmission lines and 370,000 square miles of service territory. As a Regional Transmission Organization, SPP ensures reliable supplies of power, adequate transmission infrastructure, and competitive wholesale electricity prices. The SPP Regional Entity oversees compliance enforcement and reliability standards development.



TONY MONTOYA, PHD
CENTAURI

Dr. Montoya has spent his career furthering the reliability, safety, and security of the bulk electric system. For over 35 years he served as an engineer, manager and senior executive with the Western Area Power Administration; he served his last 10 years at WAPA as Chief Operating Officer, responsible for day-to-day operations for an

organization that markets over 10,000MW of federally owned hydroelectric power across 17,000 miles of transmission and 325 substation to 600 wholesale public power customers in the western U.S. Currently Montoya consults with Centauri providing solutions for critical national security missions, where he is under contract to the U.S DOE, Office of Intelligence and Counterintelligence. He is working to mitigate foreign threats to the security and resiliency of the U.S. energy sector.



MICHAEL R. NIGGLI
CHAIRMAN OF THE BOARD, ESS, Inc.

Mr. Niggli has been part of the energy industry for his entire professional career. He is currently the Chairman of the Board of ESS, Inc. a long duration energy storage company. He previously served as the President and COO of San Diego Gas & Electric Company; President of Sempra Generation; Chairman of the Board, CEO and

President of Nevada Power Company; Chairman of the Board, CEO and President of Sierra Pacific Resources (now NV Energy); COO of Southern California Gas Co.; and as a senior officer with Entergy Corporation. During his career he provided expert testimony in 7 jurisdictions before state, local or federal authorities.



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and power®



JAMES D. OGSBURY
EXECUTIVE DIRECTOR, WESTERN GOVERNORS' ASSOCIATION

Mr. Ogsbury has over twenty years of experience in creating and implementing bipartisan public policy. As the Executive Director of WGA, he represents the Governors of 19 western states and 3 Pacific territories. He has restructured the organization and instituted

reforms to better identify and promote the Governors' bipartisan policy priorities. In the process, he has elevated the profile of Western Governors and re-established the association as a leading voice on Western issues. Mr. Ogsbury has successfully managed various gubernatorial initiatives, including: the creation of the Western Governors' Drought Forum; publication of the Governors' 10-Year Energy Vision; and the first-ever "WGA Mission to Washington, D.C." Under his leadership, direct gubernatorial participation in the programs and activities of the association has risen substantially.



BOBBY OLSEN
DIRECTOR OF SUPPLY & TRADING AND FUELS, SALT RIVER PROJECT

Mr. Olsen has worked for SRP for the last 15 years, where he has worked in various roles including generation, major projects, engineering planning, and marketing. Currently, he serves as SRP's Director of Supply & Trading and Fuels where he is responsible for

the supply of energy and commodities (coal, nuclear fuel, natural gas, and energy) necessary to meet the needs of the third largest public power utility in the country.



PAUL R. ORME
OF COUNSEL, SALMON, LEWIS & WELDON

Mr. Orme's practice focuses on representing special districts in water, electric power, and utility law matters. He serves as General Counsel to five special districts in Pinal County, Arizona. Mr. Orme has worked with most of these Districts for nearly 40 years during which they have built their water and electricity delivery systems

through the issuance of hundreds of millions of dollars of revenue and general obligation bonds. He makes regular appearances before the Central Arizona Project board of directors, the Arizona Water Banking Authority, the Arizona State Certification Board, the Bureau of Reclamation, and the Arizona State Land Department on issues relating to the irrigation districts he represents.



NOAH PENNINGTON
ENGINEERING DIRECTOR, DISTRIBUTED ENERGY SOLUTIONS, GE RENEWABLE ENERGY

Mr. Pennington offers customers distributed energy solutions that are economical and result in reduction of greenhouse gas emissions. He has over 18 years of experience at GE, including business development, product management and strategy, new product

development, energy master plans, and project engineering and execution in electrification of transportation, power generation and storage, monitoring, diagnostics, analytics, sensors, & controls (software and hardware), and grid interconnection, regulation, & inverters. Mr. Pennington holds two patents related to wind turbine technology (controls, power conversion, & power generation).



PI-TA PITT
TRIBAL UTILITY GENERAL MANAGER, PECHANGA WESTERN ELECTRIC

Mr. Pitt is the Tribal Utility General Manager for Pechanga Western Electric, which provides electric utility services to customers on the Pechanga Indian Reservation. As of October 1, 2017, its customers include the Pechanga Resort and Casino and the Pechanga

Government Center. Pechanga Western Electric has also instituted a pilot project to serve approximately 20 residences that are electrically connected to lines at the Government Center.



STEWART M RAMSAY
MANAGING EXECUTIVE, VANRY ASSOCIATES

Mr. Ramsay has more than 30 years of experience in leadership, consulting and engineering roles in the global utility and manufacturing industries. He has held positions as CEO of technology start-ups, taking the companies through to maturity and profitability.

Mr. Ramsay started his career as a planning and design engineer for transmission, distribution and generation projects and was recruited into American Electric Power to lead Distribution Asset Management. He left AEP for PG&E where he ultimately led Asset Management for all electric and all gas T&D assets. He has contributed to the development of regulatory strategy at both a national and state/provincial level in several countries.

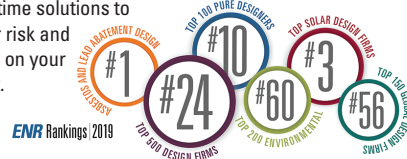


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MARGARET (MARGIE) SCHAFF
PARTNER, KANIM ASSOCIATES LLC

Ms. Schaff assists tribes and tribal organizations with their energy related issues including tribal utility formation, electric power generation projects, high voltage transmission issues, rights of ways, and energy strategies. She has also been an energy attorney for over 30 years and manages her own law practice,

Margaret Schaff and Associates, LLC. Her practice provides legal advice to tribes in the areas of tribal legal codes, tribal utility negotiations, electric power and transmission contracting, oil and gas, tribal energy resource development and business matters. Ms. Schaff enjoys writing under the name Margaret Martin and published a historical novel about the history of the Shoshone people titled "Seven Generations".



L. CHRIS N. SHEPHERD, PMP, CVI
INFORMATION SECURITY MANAGER, PRINCIPAL, CYBER SECURITY COMPLIANCE, GANNETT FLEMING, INC.

Mr. Shepherd is responsible for providing information security, cyber security, and compliance consulting services to electric utility, transit, and water management clients in government, municipalities, and private sectors. He is directly involved in security engineering &

design, security testing & evaluations, risk assessments, and vulnerability assessments for both enterprise-level IT systems and IT/OT environments. Over the last 35 years, Mr. Shepherd has managed client projects in the Banking and Energy Industries for operational upgrades, physical and cyber security retrofits, and federal compliance related projects. He has conducted cyber, physical, and information security audits to insure compliance with best practice and regulatory security standards.



MARK J. SMITH
VICE PRESIDENT OF GOVERNMENT AND REGULATORY AFFAIRS, CALPINE

Mr. Smith is responsible for transmission, wholesale power market development and federal regulatory affairs across the western United States, and served on the CAISO EIM Governance Transition Committee. Mr. Smith has 40 years of energy industry experience

including senior assignments in strategic planning, marketing, regulatory advocacy, energy contract negotiation and human resources. His past employers have included NextEra Energy Resources, Cambridge Energy Research Associates (now IHS CERA), the CAISO and Pacific Gas and Electric.



STUART TAUBMAN
VICE PRESIDENT, ZAYO GROUP

Mr. Taubman is Vice President for Fiber Infrastructure on the West Coast. Throughout his career fiber infrastructure, energy, and data centers have gone hand in hand. For the last 24 years, Mr. Taubman has provided leadership in US fiber expansion for Wiltel (Williams Companies), Worldcom, Time Warner Telecom, and now Zayo Group. Zayo Group services has over 1,100 data centers and 14 cable landing stations worldwide on its fiber.



KARIN WADSACK, PHD
PROGRAM MANAGER, NATIONAL RENEWABLE ENERGY LABORATORY

Karin Wadsack serves as program manager for the National Renewable Energy Laboratory's grid-scale Tribal Energy Program. She has over a decade of experience working with tribes across the U.S. on energy analysis, policy, and project development. Prior to

joining NREL, Karin served as a project director for NAU's School of Earth & Sustainability. She directed multiple federally-funded efforts to provide technical support in clean energy policy and project development to Tribes in Northeastern Arizona affected by the closure of the Navajo Generating Station. She also served as a technical expert for NAU's Tribal Clean Energy Resource Center.



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