



WESTERN
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Increasing Renewable Energy in the Western Grid Summit

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425 West Prospect Avenue
Ft. Collins, CO 80526

Speaker Biographies

Paul Bonavia
President – Utilities Group
Xcel Energy

Paul Bonavia is president of Xcel Energy's Utilities Group. This group comprises the four operating companies of Xcel Energy: Northern States Power Company Minnesota, Northern States Power Company Wisconsin, Public Service Company of Colorado, Southwestern Public Service Company; and five major functional areas: Asset Management, Government and Regulatory Affairs, Marketing, Resource Planning and Acquisition, and Transmission.

He most recently served as president of Xcel Energy's Commercial Enterprises business unit, with responsibility for leading Xcel Energy's core business growth strategy; planning and managing generation resources; conducting the wholesale energy business, commercial energy operations and strategic transactions; and managing public policy, regulation and government affairs.

Bonavia was previously president of the company's Energy Markets Unit. Before the merger between Northern States Power Co. and New Century Energies (NCE) to form Xcel Energy, he was senior vice president and general counsel of NCE and president of its International business unit.

He came to NCE from the international law firm of LeBoeuf, Lamb, Greene & MacRae, L.L.P. Prior to that, he was senior vice president of corporate affairs for Dominion Resources, Inc., in Richmond, Va. Before joining Dominion, he was a partner in the Miami-based law firm of Steel Hector & Davis.

Bonavia was elected to the board of directors of the American Wind Energy Association (AWEA) in June 2007 -- the first utility member to be elected to the board. He has served as trustee of Drake University, the Colorado Symphony Association, the Virginia Literacy Foundation and the Florida Shakespeare Festival.

Bonavia attended Drake University, the University of Miami School of Law and Harvard Business School's Advanced Management Program.

Hamid Elahi
General Manager, Energy Consulting
General Electric

Hamid Elahi has worked for GE in a wide range of Energy related businesses over the last 24 years. In his current position, he is leading a global team of Field Application Engineers and Energy Systems Consultants. Prior to his current role, Hamid was in charge of GE's Protection and Control operations.

He is a Fellow of the IEEE Power Engineering Society, and a member of the CIGRE USNC Executive Committee.

Hamid has over 30 publications in IEEE, IEE, and CIGRE. He has received 2 IEEE awards. He was recipient of the 2003 PACE Award from Iowa State University.

James Filippi
Principal Planning Engineer
Pacific Gas & Electric

James Filippi graduated from Santa Clara University, California, with Bachelor of Science degree in Electrical Engineering, and from the University of Colorado at Boulder with a Master of Science degree in Electrical Engineering. He is a registered professional electrical engineer in the state of California.

Mr. Filippi's present position is Principal Transmission Planning Engineer in the Strategic and Technical Services Department of Pacific Gas and Electric Company (PG&E). He assumed this position in 2003. His present responsibilities include providing leadership and representation on joint utility transmission expansion planning projects (e.g., the COI 5100 MW Upgrade Project and the Frontier Line Project), and assisting in negotiating transmission arrangements (e.g., for interconnection and coordinated operation) with other utilities. For the five years prior to that (1998-2003), he was Manager, Transmission Services for PG&E National Energy Group. Before that, he was employed in the Transmission Planning Department of PG&E, most recently as Director, Transmission Planning (1993-1998).

Mr. Filippi has been involved in the planning, permitting and contractual arrangements for several major projects, including the La Paloma and Otay Mesa power plants in California, the Harquahala power plant and Hassayampa switchyard in Arizona, and the California-Oregon Transmission Project. He has submitted testimony as an expert witness on electric transmission planning and operations issues before the Federal Energy Regulatory Commission, the California Energy Commission, the California Public Utilities Commission and the Arizona Power Plant and Transmission Line Siting Committee of the Arizona Corporation Commission.

Randy Fischer
Representative – District 53
Colorado House of Representatives

Representative Fischer was born and raised in Fort Collins where he has lived his entire life. He was elected to the Colorado House of Representatives in November of 2006 where he recently completed his first legislative session in May of 2007. He serves on the House Education and Agriculture, Livestock, and Natural Resources Committees. Since the end of the legislative session, Representative Fischer has been serving on the joint House/Senate Interim Committee on Severance Tax and has also been an active participant in the joint Interim Water Review Committee.

Representative Fischer earned 2 degrees from Colorado State University, including a master's degree in civil-environmental engineering and a bachelors in natural resources management. He spent his engineering career focusing on water quality and mining reclamation and remediation projects throughout the US and world wide. He is one of only two professional engineers currently serving in the Colorado General Assembly.

Representative Fischer has demonstrated a life-long commitment to serving his Fort Collins community. Prior to being elected to the state legislature, he served over 8 years as a member of the City of Fort Collins Natural Resources Advisory Board (NRAB), including 3 years as chair. Under his leadership, the NRAB took an active role in advising Fort Collins' City Council on environmental sustainability issues, such as solid waste reduction and recycling, land conservation, water quality, air quality, and environmental health concerns. He has also served on the City of Fort Collins Water Board and Storm Drainage Advisory Board and the Larimer County Rural Land Use Advisory Board.

Dave Freudenthal
Governor
State of Wyoming

Dave Freudenthal took office as Wyoming's thirty-first governor on January 6, 2003. Born in Thermopolis, Wyoming in 1950, the 56-year-old Democrat grew up on his family farm north of town. He is the seventh of eight children.

Before earning the title of "Gov. Dave," Freudenthal served nearly eight years as the U.S. attorney for Wyoming, nominated by former Governor Mike Sullivan and appointed by President Bill Clinton. He had earlier spent sixteen years running his own private law practice in Cheyenne, Wyoming, where he has made his home with his family for more than twenty years.

Freudenthal's professional life has come full circle. Long before entering the private sector as an attorney, he worked for the state of Wyoming, beginning his employment in 1973 as an economist for the state Department of Economic Planning and Development. He then joined Governor Ed Herschler's core staff as state planning coordinator in 1975 before going on to open his one-man law practice in 1980.

While working for the state, Freudenthal simultaneously earned a law degree from the University of Wyoming in 1980, following a bachelor's degree in economics from Amherst (Massachusetts) College in 1973.

Gov. Dave and First Lady Nancy Freudenthal, herself a private attorney in Cheyenne, have four children: Donald; Hillary; Bret; and Katie.

Cynthia Hinman
Senior Tariff Developer
California ISO

Cynthia Hinman is a Project Manager and Senior Tariff Developer at the California ISO, which is establishing an innovative approach for financing transmission lines that connect to renewable generation in California.

Her current responsibilities include leading the stakeholder process and finalizing the regulatory rules that should ease a major hurdle for developing new renewable facilities.

The California Independent System Operator is a non-profit entity that coordinates the transmission planning process as well as grid operations for most of the state of California.

Cynthia has worked at the ISO for seven years. She previously worked in the telecommunications and financial services industries. She is a graduate of Ohio State University and received an MBA from the University of Phoenix.

Ed Hulls**Operations Manager, Rocky Mountain Region
Western Area Power Administration**

Ed Hulls is a Registered Professional Engineer currently working as Manager of Operations with the Rocky Mountain Region of the Western Area Power Administration. He has 33 years of experience working in the electric utility industry. Past engineering experience has included design and construction of substations and transmission lines as well as performing transmission planning and operating activities. He has also managed various Engineering, Maintenance and Operations organizations within Arizona, Nevada and Utah.

Currently he is serving as the chair of the Western Electricity Coordinating Council (WECC) Operating Practices Subcommittee (OPS) and has chaired and served on a number of additional WECC and North American Electric Reliability Corporation (NERC) committees. He also assisted in the investigation of the August 14, 2003 Northeast Blackout by leading the NERC Standards and Compliance Investigation Team in a technical analysis of the blackout to determine what happened, why and what lessons could be learned. He also has chaired and is actively involved in the Colorado State University Electrical & Computer Engineering Industrial Advisory Board.

Pam Inmann**Executive Director
Western Governors' Association**

Pam Inmann became Executive Director of the Western Governors' Association in March 2004.

Ms. Inmann previously worked as the District Director in State Government Affairs at Altria Corporate Services. Altria is the parent company of Philip Morris USA and Kraft Foods, Inc. As District Director, Ms. Inmann had responsibility for fifteen western states with three regional directors reporting to her.

Prior to joining Altria, Ms. Inmann worked for ten years for the Rocky Mountain Oil and Gas Association. At RMOGA she served as Director of Special Projects and Director of the Committee on Oil Shale. Her other experience includes public affairs manager at Cyprus-Amoco Minerals' Hansen Project and assistant coordinator and consultant to the Colorado Governor's office.

Ms. Inmann sat on the foundation board of the National Conference of State Legislators and was former President of the Colorado Public Expenditure Council. She is a graduate of the University of Colorado in Boulder in 1975 with a Bachelor of Arts degree in Political Science. She lives in Castle Rock.

Robert Kondziolka**Manager, Transmission Planning
Southwest Area Transmission**

Robert Kondziolka graduated from the University of Arizona in 1980 with a BS in Engineering. He was employed by Tucson Electric Power Company as a transmission design engineer for five years before joining Salt River Project in 1984. Since 1989 he has held progressively responsible supervisory and managerial positions charged with the planning, siting, permitting, design, construction, maintenance, contracts, operation, business plan development, regulatory issues, and regional transmission development associated with SRP's transmission system. Presently, he holds the position of Manager of Transmission Planning.

Mr. Kondziolka has overseen SRP's transmission expansion since 2000. Under his guidance during the past 8 years, SRP has increased in its service territory load serving capability by 50%, increased the Palo Verde East Path from 3810MW to 7560MW, built the Hassayampa 500kV Switchyard, the Southwest Valley 500kV Project, the Browning 500kV Substation, initiated construction of the Southeast Valley 500kV Project, and numerous 230kV projects. Additionally, SRP has initiated, proposed, or is supporting the development of major transmission in Arizona, the southwest, and inter-regionally to meet the needs of the region and western interconnection over the next 10 to 20 years.

Mr. Kondziolka is a registered professional Civil Engineer in the State of Arizona. He currently serves as Chair of the Southwest Area Transmission (SWAT) regional planning group, Chair of the Western Congestion Analysis Task Force, Vice-Chair of the Western Electricity Coordinating Council (WECC) Planning Coordination Committee, Chair of the WECC Joint Guidance Committee, member of the newly created WECC Transmission Expansion Planning Policy Committee, and Chair of the Mead-Phoenix Project Engineering and Operating Committee. He is a past Board Member of the Arizona Independent Scheduling Administrator Association and a local chapter of the National Society of Professional Engineers. Serving on Electric Power Research Institute's Transmission Business Advisory Committee and various Technical Advisory Groups, he has received several awards for advancing new technologies relating to transmission systems. Mr. Kondziolka has authored or co-authored 19 technical articles relating to transmission line systems.

Doug Larson
Executive Director
Western Interstate Energy Board

Doug Larson is the Executive Director of the Western Interstate Energy Board, an association of 11 western states and three western Canadian provinces (Alberta, Arizona, British Columbia, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Saskatchewan, Utah, Washington, and Wyoming). Members of the Board are appointed by the governor or premier. The Board has responsibility for all energy-related issues affecting the West. The Board serves as the energy arm of the Western Governors' Association. The Board provides support to the Western Governors' Association's clean and diversified energy initiative, particularly in the areas of transmission and wind.

The Board has three committees, including the Committee on Regional Electric Power Cooperation (CREPC). CREPC includes the regulatory, planning and facility siting agencies from the states and provinces in the Western Interconnection. CREPC is the forum for Western states and provinces to engage the Federal Energy Regulatory Commission, the Department of Energy and the Western electric power industry in discussions of regional transmission planning, resource adequacy, transmission permitting, market monitoring and other regional electricity issues.

Larson also staffs the Western Interconnection Regional Advisory Body created by Western Governors in 2006 to advise the Western Electricity Coordinating Council, the North American Electric Reliability Corporation, and the Federal Energy Regulatory Commission (FERC) on grid reliability issues.

Elliot Mainzer
Manager of Transmission Policy and Strategy
Bonneville Power Administration

Elliot Mainzer is the Manager of Transmission Policy and Strategy at the Bonneville Power Administration. He previously served as Trading Floor Manager and Manager of Pricing and Transaction Analysis in the Agency's Power Business Line. Elliot recently completed a special assignment to the BPA Administrator to work with the Northwest Power and Conservation Council, regional utilities, developers, and State agencies to develop an Action Plan for Wind Integration in the Pacific Northwest. Prior to joining BPA, Elliot established and managed Enron's Renewable Power Desk out of its Portland, Oregon office. He has MBA and Master of Environmental Studies degrees from Yale University.

Yakout Mansour
President and Chief Executive Office
California ISO

Yakout Mansour, President and Chief Executive Officer brings 30 years of power system experience to his position managing California's open-access high-voltage power grid. Previously, he served as the Senior Vice President of System Operations and Asset Management for British Columbia Transmission Corporation (BCTC) since its inception in 2003. Mr. Mansour helped chart the course of BCTC as an independent entity and was a major contributor to the development of the transmission business in British Columbia and the North West.

Previously, at BC Hydro, Mr. Mansour served as Vice President Grid Operations and Inter-Utility Affairs, a functionally separate division responsible for the system operation as well as the development of policies and practices related to inter-utility transmission access and wheeling services in British Columbia.

A registered Professional Engineer in the Provinces of British Columbia and Alberta, Mr. Mansour is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE), has authored and co-authored over 100 papers and special publications for IEEE and other international professional institutions, and has provided training and consulting services around the world. His groundbreaking developments in electric power system dynamics have made him recognized internationally and he holds related patents in both the United States and Canada. Prior to Mr. Mansour's research in this area, the phenomenon of voltage instability was an emerging issue with no specific method in existence to analyze the problem. He has made major contributions to this field of research and has been a guiding force in the industry. Mr. Mansour was awarded several awards for his innovations and distinguished services to the electric power industry.

Mr. Mansour has been providing valuable testimonies to the U.S. Federal Energy Regulatory Commission and the British Columbia Utilities Commission on matters related to grid planning, operation, market development, and industry restructuring.

The North American Electric Reliability Council (NERC) named Mr. Mansour to the panel that steered the investigation of the August 14, 2003 blackout that affected much of the eastern North America. He was part of a similar panel that looked into the blackout that affected the western United States and Canada on August 10, 1996 as well as major blackouts that affected other parts of the world in South America and Asia in recent years.

Mr. Mansour's activities in several national and international industry associations and institutions over the last 20 years included:

- Chairman and member of several committees and working groups of the Institute of Electrical & Electronic Engineers.
- Principal and Board member of the GridWest Northwestern U.S. Regional Transmission Organization (RTO).
- Member of the Steering Group of the Seams Steering Group-Western Interconnection (SSG-WI).
- Member of the Stakeholder Committee for the NERC, representing Canada at large.
- Member of the Canadian National Committee of the international organization CIGRE.
- Member of the Transmission Council of the Canadian Electric Association.

Tim Meeks

Administrator

Western Area Power Administration

Tim Meeks became Western Area Power Administration's fifth Administrator on Jan. 4, 2007. Western, a part of the U. S. Department of Energy, markets and delivers Federal hydropower to more than 750 wholesale customers across the central and western United States from 56 Federally-owned dams.

Meeks served as Western's Chief Operations Officer from December 2000 to December 2006. In this position, he provided executive leadership and strategic direction for Westernwide engineering and administrative programs critical to Western's mission. He oversaw a staff of more than 150 people who carry out these support functions.

Meeks' career spans 24 years in the Federal electrical utility industry. He began his government career in 1982 as an engineering student at Western's Sacramento office. Upon graduation from college, he was hired as an electrical engineer. He has held a variety of successively more responsible positions at Western including maintenance manager for the then Sacramento Area Office and assistant administrator for the power marketing liaison in Washington, D.C.

A California native, Meeks earned a bachelor's degree in electrical and electronics engineering from California State University, Sacramento, and a master's degree in engineering degree from the University of Colorado. A registered professional engineer in California, he is a member of the Institute of Electrical and Electronics Engineers and Tau Beta Pi Engineering Honor Society. Meeks is currently completing requirements for a master's degree in counseling psychology from the University of Colorado at Denver.

Fred Morse
Senior Advisor, U.S. Operations
Abengoa Solar

Dr. Fred Morse is the Senior Advisor of US Operations for Solucar Power, Inc., an Abengoa Company. Dr. Morse first became involved in renewable energy issues in the late 1960s when he served as Executive Director of the White House Assessment of Solar Energy as a National Energy Resource. In his work at the US Department of Energy he played a significant role in defining and managing major solar energy R&D programs. Dr. Morse was the Chairman of the Western Governors' Association Solar Task Force, was a member of the New Mexico CSP Task Force, and is the Chairman of the CSP Division of the US Solar Energy Industries Association. Dr. Morse is a graduate of Rensselaer Polytechnic Institute, received an M.S. in Nuclear Engineering from MIT and a PhD in Mechanical Engineering from Stanford University.

Dave Olsen
Director
Center for Energy Efficiency & Renewable Technologies

Dave Olsen led creation of the California Climate Action Registry, the first state registry of greenhouse gases. CCAR provides the framework for the national Climate Registry now subscribed by 31 states.

He is the former President/CEO of Patagonia, Inc., one of the first corporations to get its electricity from renewable energy. Earlier, he led the development of wind, solar, hydro and geothermal power projects in more than 20 countries, as President of Clipper Windpower Development, President of Peak Power Corporation, President/CEO of Northern Power Systems, and Vice President of Magma Power Company.

Carol Close Opatrny
President
Opatrny Consulting, Inc

Carol Close Opatrny is an economist who has served the electric power industry since 1980. She is appearing on behalf of the British Columbia Transmission Corporation and the Northern Tier Transmission Group members, Idaho Power Company, NorthWestern Energy and PacifiCorp. These entities together developed ACE Diversity Interchange; the effort for which Ms. Opatrny has and continues to act as Project Manager.

During her career, Ms. Opatrny has been affiliated with Seattle City Light, Merrill Schultz & Associates, Reed Consulting Group, and currently has her own consulting business in Washington State.

Brian Parsons
Project Manager, Wind Applications
National Renewable Energy Laboratory

Brian Parsons is the project leader for wind energy grid integration at the National Renewable Energy Laboratory in Golden, Colorado, USA. At NREL's National Wind Technology Center, Brian is focused on grid operating costs and impacts, transmission, and interconnection issues. He works closely with the Utility Wind Integration Group and the transmission workgroup of the National Wind Coordinating Committee. He also works with the Department of Energy's Wind Powering America deployment and outreach initiative.

Amol Phadke
Post Doctoral Fellow, Energy Analysis Department
Lawrence Berkeley National Laboratory

Dr. Amol Phadke is a Post Doctoral Fellow in the Energy Analysis Department, Lawrence Berkeley National Laboratory (LBNL) where he works with the Electricity Markets and Policy Group and the International Energy Studies Group. His primary areas of research are electricity markets, climate change mitigation options, and energy-climate modeling with a geographic focus on the US and India. Amol's recent analytic work included studies on the international comparison of the capital cost of IPP projects; feasibility of wholesale electricity competition in developing countries; and representation of

energy efficiency in energy-climate models. He has advised various state and international agencies on these topics and has authored reports and journal articles on the same. Prior to his employment at the LAB, he worked at the University of California Energy Institute on issues related to electricity markets in the US and at the Prayas Energy Group, India on Indian electricity policy issues. He received a B.S. in Production Engineering from the University of Pune, India and holds an M.S. and Ph.D. in Energy and Resources from the University of California, Berkeley.

Tom Plant
Director
Colorado Governor's Energy Office

Tom Plant is the Director of the Governor's Energy Office and was appointed by Governor Bill Ritter in 2007. Prior to GEO, Tom served as the executive director of the Center for ReSource Conservation. The non-profit implements a variety of programs focused on energy efficiency, renewable energy, water conservation, green building and construction waste reduction.

Tom served as Colorado House District 13 Representative from 1998 through 2006 including two years as Chairman of the House Appropriations committee and one year as Chairman of the Joint Budget Committee. Among the key pieces of legislation he sponsored: Prescription Drug Fairness Act; the Colorado Renewable Energy Act, which later formed the basis for Amendment 37; and energy efficiency tax-incentive legislation. He was named Legislator of the Year by organizations such as the University of Colorado and the Sierra Club of Colorado, was the recipient of Colorado Conservation Voters' "Green Sense Award for Environmental Leadership" and received the "Champion of the Family Farmer" award from the Rocky Mountain Farmers' Union.

Tom worked in the Climate Change department of the Union of Concerned Scientists in Washington, DC. At UCS, he explored the causes of global climate change and examined transportation and energy solutions to reduce the emissions contributing to climate change. Prior to UCS, and after graduating from Colorado State University, Tom worked as an exploration Geologist.

Tom has traveled around the world and taught school in Central America. In 1994, Tom and his wife Dawn Dennison established The Acoustic Coffeehouse in Nederland which became known nationally as a community gathering place and for the many famous musicians who played in the small living room setting. Tom & Dawn ran the coffeehouse for seven years, selling the business in 2001. Tom lives in Nederland with his wife Dawn, dog Fergus, and a horse named Chester.

Joanna Prukop
Cabinet Secretary
New Mexico Energy, Minerals and Natural Resources Department

Joanna Prukop is cabinet secretary for the New Mexico Energy, Minerals and Natural Resources Department. She oversees The State Forestry Division; The State Parks Division; The Department of Game and Fish; The Youth Conservation Division; The Mining and Minerals Division; The Energy Conservation and Management Division; The Oil Conservation Division and the Waste Isolation Pilot Project. Under her leadership, the Department has led a statewide effort to enact funding for conservation, agricultural, and clean energy projects. The Department has helped draft New Mexico's first strategic plan for controlling invasive plant species through watershed management, and assisted in the implementation of the first ever Forest and Watershed Health Plan. Previously, Secretary Prukop was with the Department of Game and Fish for 26 years, and retired from that agency in 2002. She has received numerous awards and honors including the recognition of her peers in 2000, when she received the *Wildlife Professional of the Year Award* from the *New Mexico Chapter of The Wildlife Society*. Most recently she was the principle author of a White Paper on *The Future of the North American Model of Fish and Wildlife Conservation*, which was unanimously adopted by the *International Association of Fish and Wildlife* in 2002.

Charles Reinhold
Project Manager
WestConnect

Charles Reinhold established Electric Resource Strategies, Inc. in 1998 to provide consulting services to the electric utility industry, bringing with him more than 25 years of industry experience. Charles was retained by WestConnect in 2001 as Project Manager for their ongoing activities.

Prior to beginning his consulting practice, Charles was the Executive Director of the Arizona Power Pooling Association from 1989 to 1998. He also served in a variety of positions with Salt River Project from 1979 to 1989.

Charles has held Board positions in a number of industry organizations. He holds degrees in law from the University of Denver and business administration from the University of Arizona.

Bill Ritter, Jr.
Governor
State of Colorado

Bill Ritter, Jr. was elected as Colorado's 41st governor in 2006 – the first Colorado-born governor in more than 35 years. Gov. Ritter has quickly established Colorado as a national leader in renewable energy by creating a New Energy Economy and doubling the state's renewable energy portfolio.

He is reforming natural resource issues, bringing greater balance, requiring responsible development and ensuring the protection of our air, land, water, wildlife and communities.

Gov. Ritter also is working toward creating a 21st Century transportation system and is leading efforts on statewide health-care, economic-development and education reform, both at the K-12 and higher-ed levels, through his P-20 Education Council and Jobs Cabinet.

In addition, Gov. Ritter is changing the fundamental way state government operates. He is creating stronger partnerships with employees and finding efficiencies that will result in more effective services for the taxpaying public and a more accountable government.

The sixth of 12 children, Gov. Ritter was raised on a small farm in Arapahoe County. He was a member of the first graduating class of Gateway High School (1974), and he earned his bachelor's degree in political science from Colorado State University (1978) and his law degree from the University of Colorado (1981).

His first job out of law school was as a deputy district attorney in Denver. In 1987, Gov. Ritter and his wife, First Lady Jeannie Ritter, left Denver to run a food distribution and nutrition center in Zambia, Africa. They returned home in 1990, and three years later Ritter was appointed as Denver's top prosecutor, a position he held until January 2005. He earned a national reputation as one of the country's most effective and innovative prosecutors, and several of his programs continue to serve as state and national models.

The governor and first lady have four children: August, Abe, Sam and Tally.

Joe Rossignoli
Manager, Regulatory Policy
National Grid

Joe Rossignoli manages the Transmission Regulatory Policy area of National Grid, where he is responsible for representing the company's interest in the PJM and MISO regions, as well as playing a key role in developing the company's position on national transmission policy initiatives. Joe also manages regulatory issues with respect to the Company's Business Development activities in the western United States. Joe joined National Grid in 2000 from the former Eastern Utilities where he was responsible for wholesale trading. He resides in Cumberland, RI.

John Savage
Commissioner
Oregon Public Utilities Commission

John Savage was appointed to the Oregon Public Utility Commission in September, 2003, after serving as Director of the agency's 70-person regulatory staff. Before joining the Commission, Savage worked more than twenty years at the Oregon Department of Energy including eight years as agency director under Oregon Governors Roberts and Kitzhaber. While at the Department of Energy, Savage oversaw the development of Oregon's energy, oil shortage, and global warming plans;

administered state and federally-funded programs to save energy and develop renewable resources; regulated the clean-up and transport of radioactive waste; and sited new power plants and other energy facilities. Savage has served on many state, regional, and national energy task forces including Oregon Governor Kulongoski's Climate Change Task Force and President Clinton's Alternative Fuels Task Force technical advisory committee. Savage chairs the Western Interconnection Regional Advisory Body, which advises FERC, NERC, and WECC on mandatory reliability standards; the Electricity Committee of the Western Conference of Public Service Commissioners; and the Committee on Regional Electric Power Cooperation – a joint committee of the Western Interstate Energy Board (the energy arm of the Western Governors Association) and the Western Conference of Public Service Commissioners. Savage has an M.S. in natural resource economics.

Dan Schochet
Vice President
Ormat Technologies, Inc.

Dan Schochet has held various positions within the ORMAT group of Companies, with assignments including geothermal resource acquisition, project feasibility, financing, and regulatory affairs. In particular he has been instrumental in developing geothermal projects in Nevada and California.

He is a member of the Boards of Directors of the Geothermal Resources Council and the Geothermal Energy Association. He is a member of the Western Governor's Association Clean and Diversified Energy Advisory Committee (CDEAC), the Nevada Governor's Renewable Energy Task Force, Nevada Governor's Renewable Energy Transmission Access Advisory Committee and the Steering Committee of the UNR Great Basin Center for Geothermal Energy.

Dan holds an MSEE from Columbia University School of Engineering, and a BEE from Cooper Union School of Engineering

Santiago Seage
Chairman and Chief Executive Officer
Abengoa Solar

Santiago Seage is the CEO of Abengoa Solar, an international solar power company that has recently built the first commercial solar power tower and is currently building and developing Concentrated Solar Power and Photovoltaic plants in Europe, Northern Africa and the Southwest. Santiago was previously a partner with McKinsey & Co.

Rachel Shimshak
Director
Renewable Northwest Project

Rachel Shimshak has been the Director of the Renewable Northwest Project since its inception in 1994. On her watch, RNP has supported the implementation of more than 1,400 MW of wind, geothermal and solar resources in the Northwest. In 2005, she was chosen by the Governor of Oregon to represent the state on the Western Governor's Association Clean and Diversified Energy Advisory Committee, and she was chosen by the four Northwest Governors to serve on the Comprehensive Review of the Northwest Energy System in 1996. Before moving back to the Northwest, Rachel was the Policy Director for the Massachusetts Division of Energy Resources where she worked on electricity, natural gas, oil, conservation, renewables, and emergency planning issues. Prior to that, Rachel was the Legislative Director for a Massachusetts consumer group, and an advocate in Colorado and Washington, D.C. She has served on the Boards of several, non-profit, clean energy and educational organizations and is currently the Secretary of the Bonneville Environmental Foundation. Rachel graduated from the University of Oregon and is a native Oregonian.

Robert L. Sims
Director, Engineering and System Planning
AES Wind Generation

Robert L. Sims is Director of Engineering and System Planning at AES Wind Generation. AES Wind was formed with the purchase of SeaWest WindPower by the AES Corporation in early 2005. AES is one of the world's largest global power

companies, with 121 generating facilities and a workforce of 30,000 people located across 26 countries and providing power for 100 million people worldwide.

Mr. Sims joined SeaWest in 1999 and has been responsible for the development, interconnection, engineering, and construction of nearly 2000 MW of wind energy projects in North America, Central America, and Europe over the last 25 years.

Prior to joining SeaWest, Mr. Sims managed his own consulting company and provided consulting in the area of utility interconnection and transmission adequacy for renewable energy projects in North America and Internationally.

From 1981 to 1996 Mr. Sims held the position of Electrical Engineering manager at wind pioneer Kenetech WindPower. While at Kenetech Mr. Sims was responsible the planning design and utility interconnection of numerous of wind energy projects located in California, Wyoming, Texas, Canada, Europe, and Central America.

Mr. Sims served in 2006 as President of the Texas Wind Coalition, a wind industry advocacy group promoting wind policies in Texas and the Southwest Power Pool. He is a regular participant and speaker at industry meetings and conferences.

He has co-authored several papers on wind energy, including the IEEE recommended practice "Design and Operation of Windfarm Generating Stations." Mr. Sims holds a Bachelor of Science degree in Electrical Power Engineering from California Polytechnic University.

Michael Skelly
Chief Development Officer
Horizon Wind Energy

Michael Skelly has been with Horizon Wind since 1999, where he leads Horizon's development activities across the country. Michael has been intimately involved in the origination and development of all of projects Horizon has built, and is responsible for bringing future projects to fruition. Prior to joining Horizon, Michael was Director of Business Development for Energia Global (EGI), an IPP focused on independent power projects in Central America. He is a founding partner and former general manager of the Rain Forest Aerial Tram. Fluent in Spanish, Michael is a 1984 graduate of University of Notre Dame with a B.A. in economics. After a stint in the Peace Corps, Michael received an M.B.A. from Harvard in 1991.

Mike Sloan
Managing Consultant
The Wind Coalition

Mike Sloan is President of Virtus Energy Research Associates, a small renewable energy consulting firm in Austin, Texas. During the past 19 years, Sloan has provided technical support services to government, universities, and industry for a broad spectrum of renewable energy resources and technologies, including wind, photovoltaics, solar thermal, landfill gas, geothermal and hydropower.

Virtus Energy has provided consulting services such as business development, project siting and regulatory assistance to companies seeking to flourish in Texas burgeoning green power markets. Sloan serves as Managing Consultant of The Wind Coalition, a non-profit association advocating positions and public policies to encourage the development of the vast wind energy resource of Texas, Kansas, Oklahoma and New Mexico.

Sloan, who holds engineering degrees from Notre Dame (B.S.) and the Univ. of Texas at Austin (M.S.), is regarded as a leading authority on Texas' renewable energy development policies, having played a leadership role in the development of the Texas Renewable Portfolio Standard (RPS), Renewable Energy Credits (REC) program, and Competitive Renewable Energy Zone (CREZ) proactive transmission development process. Sloan served as Chairman of Austin's Sustainable Energy Task Force, which crafted the structural framework for the city's nation-leading retail green power program, and was appointed by Gov. George W. Bush to serve on the Texas Energy Coordination Council, an advisory group for state energy policy.

Bob Smith
Manager of Transmission Planning and Engineering
Arizona Public Service and TransWest Elect

Bob Smith is presently the Manager of the Transmission Planning and Engineering Department at Arizona Public Service Co. in Phoenix. Bob has a Master's degree in Electrical Engineering from New Mexico State University and is a registered professional engineer in the State of Arizona. Bob has worked in the electric industry and for APS for 21 years in the areas of Transmission Planning, Construction and Maintenance, and Transmission and Control Area Operations. Bob represents APS in several regional planning forums and has been extensively involved in WECC activities including two years chairing the WECC Compliance Monitoring and Operating Practices Subcommittee. In October of 2005 Bob was designated Project Manager of APS' TransWest Express Project.

J. Charles Smith
Executive Director
Utility Wind Integration Group

J. Charles Smith is a Senior Member of the IEEE Power Engineering Society, and a member of CIGRE, the International Council on Large Electric Systems. He received his BSME and MS degrees from MIT in 1970. He currently serves as the Executive Director of the Utility Wind Integration Group (UWIG), and is also the Managing Director of the consulting company Nexgen Energy. Previously, he served as President of Electrotek Concepts, a power engineering consulting firm. He has 37 years of experience in the electric power industry.

Marsha H. Smith
Commissioner
Idaho Public Utilities Commission

Marsha H. Smith is serving her third term on the Idaho Public Utilities commission. Her current term expires in January 2009. Smith, a Democrat, served as commission president from November 1991 to April 1995.

Commissioner Smith is the first vice president of the National Association of Regulatory Utility Commissioners (NARUC), serves on the NARUC Board and Executive Committee, is a member of NARUC's Committee on Energy Resources and the Environment and past chair of NARUC's Electricity Committee. She is an elected member of the Western Electricity Coordinating Council Board of Directors, co-chair of the National Action Plan for Energy Efficiency and co-chair of the Steering Committee of the Northern Tier Transmission Group. She represents Idaho on the Western Interconnection Regional Advisory Body and chaired the Western Interstate Energy Board's Committee for Regional Electric Power Cooperation from October 1999 to October 2005. She is a member of the Electric Power Research Institute's Advisory Council, the National Council for Electricity Policy Steering Committee, the Harvard Electricity Policy Group, the Consortium for Electric Reliability Technology Solutions, the Western Conference of Public Service Commissioners and the Idaho State Bar.

Smith received a bachelor of science degree in biology/education from Idaho State University, a master of library science degree from Brigham Young University and her law degree from the University of Washington.

Before her appointment to the commission, Commissioner Smith served as deputy attorney general in the business regulation/consumer affairs division of the Office of the Idaho Attorney General and as deputy attorney general for the Idaho Public Utilities Commission. She was the commission's director of Policy and External Affairs and chair of the NARUC Staff Subcommittee on Telecommunications.

A fourth-generation Idahoan, Commissioner Smith has two sons.

Jerry Vaninetti
Business Development
Trans-Elect

Based in Denver, Jerry Vaninetti is responsible for Trans-Elect's project development in the Western U.S. focusing on grid expansions involving new and upgraded transmission lines in the WECC, many of which are planned to serve remote

generation projects. Currently, his primary activities are directed at (1) Trans-Elect's public/private partnership involving the TOT 3 transmission constraint located along the Colorado-Wyoming border and (2) the High Plains Express project in partnership with seven utility stakeholders and the transmission authorities for the affected states. He has played an active role in recent WECC transmission public policy and stakeholder venues including RMATS, CDEAC, Frontier Line, and PG&E's BC-California import studies.

Mr. Vaninetti has more than 30 years of experience in the technical, market, and economic aspects of the North American electric power industry with a focus on fuel supply, wind and coal project development, generation/transmission public policy, and project feasibility. He has extensive experience as an expert witness and as a speaker at power industry and FERC conferences. Prior to joining Trans-Elect in 2005, he served as the interim executive director of the Wyoming Infrastructure Authority, Principal in RDI's Consulting Practice, and President of Great Northern's power development and resource leasing partnerships.

Pat Vincent
Utilities President
Public Service Company of New Mexico

As Utilities President for PNM Resources, Pat Vincent has responsibility for operations of both PNM and Texas-New Mexico Power Co., including Strategy Development, Utility Generation Resources, Integrated Resource Planning, Communications and Regulatory Affairs. She oversees operations spanning two states and serving 712,000 electric and 492,000 gas customers.

Vincent has more than 15 years of experience in utility leadership and most recently served as President and CEO of Public Service Company of Colorado, a subsidiary of Xcel Energy, where she had responsibility for profitability of the \$3.8 billion electric and gas utility with 1.3 million electric and 1.2 million gas customers. She also spent 12 years in other industries, including serving as a brand manager for Quaker Oats and managing a strategic consulting group for Price Waterhouse.

She has an MBA from Harvard University and is a graduate of Drake University and is involved in number of professional and community organizations.

Jonathan Weisgall
Vice President, Legislative and Regulatory Affairs
MidAmerican Energy Holdings Company

Jonathan Weisgall is Vice President for Legislative and Regulatory Affairs for MidAmerican Energy Holdings Company, a subsidiary of Berkshire Hathaway. He also serves as chairman of the board of directors of the Center for Energy Efficiency and Renewable Technologies and president of the Geothermal Energy Association. He is an Adjunct Professor of Law at Georgetown University Law Center, where he has taught a seminar on energy issues since 1990, and he has also guest lectured on energy issues at Stanford Law School, Haverford, and the Johns Hopkins Environmental Science and Policy Program. Mr. Weisgall graduated Phi Beta Kappa from Columbia College and from Stanford Law School, where he served on the Board of Editors of [Stanford Law Review](#). He previously practiced law in Washington, D.C. at Covington & Burling, has written law review articles for [Wisconsin Law Review](#) and [University of San Francisco Law Review](#), and has published articles in [Legal Times](#), [The New York Times](#), [Los Angeles Times](#), [Foreign Policy](#), [SAIS Review](#), and [The Bulletin of the Atomic Scientists](#). He lives in Bethesda, MD with his wife Ruth and has three children in college and graduate school.

Jon Wellinghoff
Commissioner
Federal Energy Regulatory Commission

Commissioner Jon Wellinghoff is a member of the Federal Energy Regulatory Commission, the agency that oversees wholesale electric transactions and interstate electric transmission and gas transportation in the United States. He was sworn in as a FERC commissioner by Senate Majority Leader Harry Reid on July 31, 2006.

Commissioner Wellinghoff is an energy law specialist, with over 30 years of experience in the field. Immediately before joining the Commission, Commissioner Wellinghoff was in private practice where focused exclusively on client matters related to renewable energy, energy efficiency and distributed generation. While in the private sector he represented an array of clients

from federal agencies, renewable developers, and large consumers of power to energy efficient product manufacturers and clean energy advocacy organizations. His experience also includes two terms as the State of Nevada's first Consumer Advocate for Customers of Public Utilities. While serving in that role, Commissioner Wellinghoff represented Nevada's utility consumers before the Public Utilities Commission of Nevada, the FERC, and in appeals before the Nevada Supreme Court. He authored the first comprehensive state utility integrated planning statute, which became a model for utility integrated planning processes across the country. He is also the primary author of the Nevada Renewable Portfolio Standard (RPS) act. The Nevada RPS is only one of 2 state renewable energy laws given an "A" rating by the Union of Concerned Scientists

Commissioner Wellinghoff's priorities at FERC include opening wholesale electric markets to renewable resources, providing a platform for participation of demand response and other distributed resources in wholesale electric markets, and promoting efficiency in our nation's energy infrastructure. Commissioner Wellinghoff is serving as a co-chair of the Demand Response Collaborative launched jointly by FERC and the National Association of Regulatory Utility Commissioners. He also served as an advisor to the Defense Science Board's Energy Policy Task Force.

Steve Wright
Administrator and Chief Executive Officer
Bonneville Power Administration

Steve Wright was appointed Administrator and Chief Executive Officer of the Bonneville Power Administration on January 24, 2002. At the time of his appointment, Department of Energy Secretary Spencer Abraham lauded Wright for his "outstanding leadership through some of the most turbulent times for the electricity industry" as well as for his effectiveness in bringing together diverse constituencies.

Wright's previous 13 months as Acting Administrator spanned some of the region's greatest energy challenges, including a west coast energy crisis and a severe drought in the Northwest. The Northwest congressional delegation cited Wright's leadership during this volatile period in giving him unanimous and bipartisan support for his appointment as Administrator and Chief Executive Officer.

During the energy crisis and its aftermath, Wright led a successful regional effort to substantially reduce the size of a projected wholesale power rate increase by negotiating load reductions with regional utilities and large industrial customers. As Administrator, his focus has been on stabilizing BPA's finances to help eliminate or mitigate future rate increases.

He is a strong advocate for shoring up the region's aging energy infrastructure to ensure an energy crisis is not repeated. He also is working with the region's Federal agencies, states, tribes, and interest groups to implement a 10-year recovery plan for endangered salmon.

Wright also is a strong advocate for renewable energy. Over 80 percent of the electricity BPA markets is hydropower from the Columbia Basin's Federal dams. In addition, Wright has led major agency initiatives aimed at promoting wind power. During his tenure, BPA has constructed nine transmission projects, including substations, to integrate wind resources into the Northwest grid. BPA also encouraged wind development by exempting wind projects from the normal imbalance charges – a penalty assessed when generators do not provide the power they have scheduled. This approach recognized the intermittent nature of wind and became a model that the Federal Energy Regulatory Commission is using for the rest of the industry in Order 890.

BPA also has offered storage and shaping products to help firm wind thereby adding to its market value. Looking ahead, Wright cosponsored with the Northwest Power Planning and Conservation Council a major initiative to address how wind can be integrated into a reliable, cost-effective power supply in the future. This regional effort, which included utilities, regulators, wind developers, and environmentalists, produced the Northwest Wind Action Plan, which outlines a regional approach to integrating 6000 megawatts of wind resources into the Northwest power supply within the next few years.

Prior to his appointment as Acting and then permanent Administrator, Wright served as Senior Vice President for Corporate from 1998-2000. He was Manager of BPA's Washington, D.C., office between 1990-1998, and Manager of the California office between 1987-1990. He started his career at BPA in 1981 in the conservation office.

Wright graduated from Central Michigan University in 1979 with a B.A. in journalism and received his masters in public affairs from the University of Oregon in 1981. He and his wife Kathleen have three children and live in Portland.

FACILITATION TEAM:

Abby Arnold Senior Mediator/Vice President RESOLVE

Abby S. Arnold is a Senior Mediator and Vice President as well as Director of RESOLVE's Energy Program. She has been a practicing mediator and trainer in conflict resolution for nearly twenty years, specializing in energy resources, energy efficiency, environmental issues, natural resources, and other public policy issues.

Facilitator for the National Wind Coordinating Collaborative for fourteen years, Ms. Arnold has also mediated numerous collaborative endeavors, exploring issues and policies that support emerging technologies, distributed resources and energy efficiency. She has facilitated policy dialogues, regulatory negotiations and commercial private sector cases for a full variety of federal agencies and private parties on a range of topics: state and federal policy on distributed resources, transmission of electricity, new power plants, and other natural resource issues, including watershed protection, marine mammals, commercial fisheries, non-point source waters, and water quality. She also has facilitated dialogues on public policy issues such as health risk, hazardous waste, marine and coastal resources, and toxic substances. Ms. Arnold's specific interest is the design of processes that successfully integrate research and science into decision-making processes.

Since 1994, Ms. Arnold has designed and mediated four distinct multi-party collaboratives on the obstacles, concerns and issues associated with biofuels, geothermal and wind energy for production of electricity. These mediations have involved utilities and transmission owners, private industry, federal and state agencies, consumer and environmental interest groups.

Ms. Arnold has authored articles on the application of dispute resolution in natural resource issues. She earned a B.A. in Environmental Planning and Politics with Honors at University of California Santa Cruz, and a Master's in Public Administration from the Kennedy School of Government, Harvard University. Ms. Arnold was raised in California and spent ten years in Alaska working on land use and coastal management issues. She now resides in Washington, DC with her three children and husband.

Katie Kalinowski Outreach Coordinator National Wind Coordinating Collaborative

Katie Kalinowski is a Facilitator in RESOLVE's Washington, DC office and Outreach Coordinator for the National Wind Coordinating Collaborative (NWCC). As NWCC Outreach Coordinator, Ms. Kalinowski assists the organization to identify issues that impact the use of wind power, establishes dialogue with key stakeholders, and catalyzes action on strategic issues for wind development. She assesses the needs of respective constituencies and identifies events or opportunities for NWCC to pursue. Well acquainted with the issues and stakeholders, Ms. Kalinowski supports and facilitates the activities of workgroups involved with various issues such as transmission, wildlife/wind power interactions, and siting. The NWCC is a respected resource on wind energy and Ms. Kalinowski prepares or assists the collaborative to write reference documents. She also manages the NWCC website and budget.

Ms. Kalinowski holds a master's degree in Economics from North Carolina State University. She graduated summa cum laude with a Bachelor of Science in Natural Resource and Environmental Economics from the University of Nebraska-Lincoln, where she completed an economic analysis of grant investment in recycling facilities as her honors thesis. She speaks fluent German and spent a year in Germany with the Congress-Bundestag Youth Exchange. Before joining RESOLVE, Ms. Kalinowski held positions with the Institute for Ecological Economy Research in Berlin and U.S. Natural Resources Conservation Service in Nebraska.

Taylor Kennedy
Program Associate
RESOLVE

Taylor Kennedy is a Program Associate in RESOLVE's Washington, DC office, where she assists in convening and facilitating consensus building and policy dialogues. Ms. Kennedy assists the National Wind Coordinating Collaborative and its associated Wildlife Workgroup by coordinating many of its projects: identification of research priorities, hosting informative meetings and workshops, production of reference and outreach materials, communication of scientific and political developments, and development of solutions to issues associated with interactions between wind energy development and wildlife. Ms. Kennedy serves as a liaison between the Wildlife Workgroups' subgroups and coordinates with all involved to expedite collaborative projects. She similarly supports the Federal Interagency Wind Siting Committee, which seeks to develop processes allowing more efficient federal oversight over the wind energy industry.

Before joining RESOLVE, Ms. Kennedy worked as an Executive Assistant at Dutko Worldwide, where she provided research and policy support for the Sustainability and Housing practices. She received a Bachelor's degree in Philosophy, with a minor in Political Science from James Madison University, Harrisonburg, VA in 2005.