

Spring 2017 Joint CREPC-WIRAB Meeting

The Boise Centre East
195 S. Capitol Boulevard
Boise, ID

<i>Wednesday April 12, 2017</i>	<i>Thursday April 13, 2017</i>	<i>Friday April 14, 2017</i>
<i>9:00 a.m. – 11:30 a.m.</i> WIEB Annual Board Meeting	<i>8:00 a.m. – 5:00 p.m.</i> <i>Joint CREPC-WIRAB Meeting</i>	<i>8:00 a.m. – 11:30 a.m.</i> <i>Joint CREPC-WIRAB Meeting</i>
<i>1:00 p.m. – 5:00 p.m.</i> <i>Joint CREPC-WIRAB Meeting</i>	<i>12:30 p.m. – 2:00 p.m.</i> <i>Women in Energy Lunch</i>	

Teleconference Information

Phone: 1-866-740-1260 | Access code: 8974605 | Webinar: [Links](#)

Wednesday April 12th Joint CREPC-WIRAB Meeting

1:00 – 1:15 p.m. **Welcome and Introductions**

- John Chatburn, co-Chair of CREPC
- Travis Kavulla, co-Chair of CREPC

1:15 – 1:35 p.m. **Energy Storage Technologies and Services**

An overview of energy storage technologies, the services they provide, the state of the industry and the challenges being faced. The focus will be on developing technologies for utility scale energy storage.

- Boryann Liaw, PhD, Department Manager, Energy Storage and Advanced Vehicles, Idaho National Laboratory [\[pdf\]](#)

1:35 – 2:30 p.m. **Energy Storage Projects and State Policies**

Presentations from operators and developers of energy storage projects in the West. What lessons can we learn from these projects? What are the financial arrangements? Are there market barriers? Utilities and developers will share their experiences implementing energy storage projects and the impact of state policies.

- Mark Irwin, Director, Contract Origination, Energy Procurement & Management, Southern California Edison [\[pdf\]](#)
- John Gibson, Manager of Distribution System Operations and Engineering Technical Services, Avista [\[pdf\]](#)
- Sarah Van Cleve, Energy Policy Advisor, Tesla [\[pdf\]](#)
- Kiran Kumaraswamy, Director of Market Development, AES Energy Storage [\[pdf\]](#)

2:30 – 3:00 p.m. **Response to Energy Storage Presentations**

Are pilot projects and state mandates the right approach? What else can state policy makers and regulators do to promote energy storage? What approaches work best outside of organized electricity markets?

- John Fernandes, Director, Regulatory Affairs, Invenergy
- Frank Wolak, Professor of Economics, Stanford University [[pdf](#)]

3:00 – 3:15 p.m. **Break**

3:15 – 4:45 p.m. **Treatment of Coal Unit Decommissioning Costs in Utility Ratemaking**

An overview of the challenges associated with decommissioning coal units and the options available for addressing them. What are the specific types of decommissioning costs? How are these costs accounted for in traditional utility ratemaking? Who bears the risk of unexpected changes in decommissioning costs? How do ratemaking decisions in one state affect decisions in other states? Speakers will use real life examples to answer these and other questions.

- Dane Watson, Managing Partner, Alliance Consulting Group [[pdf](#)]
- Bryce Dalley, Vice President of Regulation, PacifiCorp [[pdf](#)]
- Tim Tatum, Vice President of Regulatory Affairs, Idaho Power Company [[pdf](#)]
- Kathie Barnard, Director, Revenue Requirements and Regulatory Compliance, Puget Sound Energy [[pdf](#)]

5:00 p.m. **Recess Joint CREPC-WIRAB Meeting**

Thursday April 13th
Joint CREPC-WIRAB Meeting

7:00 a.m. **Continental Breakfast**

8:00 – 8:15 a.m. **Planning for Resource Adequacy**

Traditional planning for resource adequacy starts with a forecast of the system peak load, adds a planning reserve margin, and measures the gap between this adequacy target and the installed generating capacity of the existing system. This presentation introduces the key building blocks of the traditional approach to resource adequacy. It also sets the stage for a series of panels which address contemporary issues in the determination of resource adequacy.

- Arne Olson, Principal, Energy and Environmental Economics [[pdf](#)]

8:15 – 8:45 a.m. **Planning Reserve Margins**

How are planning reserve margins determined? What are the important considerations or vertically integrated utilities? How are reserve margins determined in organized markets? Can an expanded geographic footprint result in a lower overall reserve margin?

- Pat O’Connell, Director of Integrated Resource Planning, Public Service Company of New Mexico [\[pdf\]](#)
- Lanny Nickell, Vice President of Engineering, Southwest Power Pool [\[pdf\]](#)

9:00 – 10:00 a.m. **Contribution of Variable Renewable and Demand-side Resources**

What is the capacity contribution of variable renewable and demand-side resources? Why is it important to calculate the sustained peaking capability of hydroelectric resources? How have calculations changed over time?

- John Fazio, Senior Systems Analyst, Northwest Power & Conservation Council [\[pdf\]](#)
- Franco Albi, Manager, Integrated Resource Planning, Portland General Electric [\[pdf\]](#)
- Karl Meeusen, Senior Advisor on Infrastructure Policy, CAISO [\[pdf\]](#)
- Amanda Ormond, Managing Director, Western Grid Group

10:00 – 10:15 a.m. **Break**

10:15 – 11:00 a.m. **Contribution of Baseload Thermal Resources**

Baseload thermal generation confronts both operational and economic challenges. The inability to reduce output to zero and then restart several hours later, combined with projected low wholesale power prices, can result in unfavorable economic dispatch. Will utilities and independent power producers build new baseload thermal generation to meet resource adequacy targets? Can existing baseload generation be retrofitted to be more flexible? Will innovation in technology and the operation of baseload thermal generation increase future performance and economic value?

- Pat O’Connell, Director of Integrated Resource Planning, Public Service Company of New Mexico [\[pdf\]](#)
- Dilhan Rodrigo, Market Design Advisor, Alberta Electric System Operator [\[pdf\]](#)
- Alair Emory, Advanced Energy Systems Manager, Utah Governor’s Office of Energy Development [\[pdf\]](#)

10:45 – 11:30 a.m. **Planning for Flexible Capacity**

How do system planners consider the flexibility of different capacity resources? Are demand-side resources, dispatchable renewable resources, flexibility upgrades at existing thermal facilities, and new natural gas fired resources consistently evaluated?

- Gary Dorris, CEO, Ascend Analytics [[pdf](#)]
- Nick Schlag, Senior Managing Consultant, Energy and Environmental Economics [[pdf](#)]

11:30 – 12:30 p.m. **Responses to Planning for Resource Adequacy**

Is traditional planning for resource adequacy up to the challenge? Does it identify an economically efficient set of capacity resources? Do current reserve margins reflect the high value customers place on reliability? Or do current reserve margins reflect generation overbuild and potential stranded assets?

- Frank Wolak, Professor of Economics, Stanford University [[pdf](#)]
- Arne Olson, Partner, Energy and Environmental Economics [[pdf](#)]
- Gregory Sopkin, Partner, Wilkinson Barker Knauer, LLP [[pdf](#)]

12:30 – 2:00 p.m. **Lunch**

2:00 – 3:00 p.m. **Southwest Power Pool Market Expansion**

An update on the activities of the Mountain West Transmission Group (MWTG) and insight from other organizations on the market expansion. The MWTG is negotiating to join the Southwest Power Pool. What are the key issues and challenges? What are the lessons that can be learned from the experience of WAPA Upper Great Plains Region?

- Daniel Kline, Director Transmission Services, Black Hills Corp. [[pdf](#)]
- Paul Suskie, Executive Vice President Regulatory Policy and General Counsel, SPP [[pdf](#)]
- Lloyd Linke, Vice President of Operations, WAPA, Upper Great Plains Region [[pdf](#)]

3:00 – 4:00 p.m. **Western Electricity Markets and Spring Over-generation**

An update of recent activity in the Electricity Imbalance Market and discussion of efforts to create a regional ISO. A discussion of how markets and utilities are responding to the spring over-generation conditions.

- Stacey Crowley, Vice President of Regional and Federal Affairs, CAISO [[pdf](#)]
- Doug Marker, Constituent Account Executive, Intergovernmental Affairs, Bonneville Power Administration [[pdf](#)]

4:00 – 4:15 p.m. **Break**

4:15 – 5:00 p.m. **Update on Federal Activities**

Representatives of federal agencies will provide updates on the many changes taking place in the U. S Government.

- Bob Hellrich-Dawson, Senior Energy Economist, Office of Energy Market Regulation – West, Federal Energy and Regulatory Commission [[pdf](#)]
- Larry Mansueti, Office of Electricity, U.S. Department of Energy

5:00 p.m. **Recess Joint CREPC/WIRAB Meeting**

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7:00 a.m. **Continental Breakfast**

8:00 – 9:00 a.m. **Road Map for Policy Makers: Energy Challenges in the West**

The Idaho Office of Energy and Mineral Resources and WIEB have developed a Road Map to address energy challenges in the West. The Road Map covers challenges associated with distributed energy resources, variable energy resources, coal plant retirements, and a clean energy future. The focus of this panel will be on addressing challenges associated with integration of variable energy resources.

- Alaine Ginocchio, Attorney/Policy Analyst, WIEB [[pdf](#)]
- Thomas Carr, Attorney/Economist, WIEB [[pdf](#)]
- Carrie L. Simpson, Senior Manager, Market Operations, Xcel Energy [[pdf](#)]
- Justin Thompson, Director Resource Operations and Trading, Arizona Public Service [[pdf](#)]

9:00 – 10:00 a.m. **Provision of Essential Reliability Services**

Essential reliability services (e.g., frequency control; voltage control; and ramping capability) have traditionally been provided by conventional thermal power plants. Renewable energy plants with smart inverter technology can provide these same services (see [Report](#)). Panelists will discuss the provision and acquisition of the essential reliability services in the West.

- Debra Lew, Technical Director, GE Energy Consulting [[pdf](#)]
- Clyde Loutan, Senior Advisor, Renewable Energy Integration, CAISO [[pdf](#)]
- Vahan Gevorgian, Chief Engineer, NREL
- Erik Ela, Senior Technical Leader, Electric Power Research Institute [[pdf](#)]

10:00 – 10:15 a.m. **Break**

10:15 – 11:30 a.m. **State and Province Roundtable Discussion** [[pdf](#)]

- **Washington:** Tony Usibelli, Special Assistant to the Director on Energy and Climate Policy, Washington Department of Commerce
- **Montana:** Jeff Blend, Economist and Energy Analyst, Montana Department of Environmental Quality
- **Oregon:** Jessica D. Reichers, Technology & Policy Section Manager, Planning and Innovation Division, Oregon Department of Energy
- **Alberta:** Christine Lazaruk, Executive Director, Strategy and Integration, Alberta Energy
- **British Columbia:** Amy Sopinka, Policy Analyst, Ministry of Energy and Mines
- **Wyoming:** Bryce Freeman, Administrator, Wyoming Office of Consumer Advocate
- **Idaho:** John Chatburn, Administrator, Governor's Office of Energy and Mineral Resources
- **Utah:** Dr. Laura Nelson, Director, Utah Office of Energy Development
- **California:** Janea Scott, Commissioner, California Energy Commission
- **Nevada:** Angela Dykema, Director, Nevada Governor's Office of Energy
- **Colorado:** Christopher Worley, Director of Policy and Research, Colorado Energy Office (invited)

11:30 a.m. **Adjourn Joint CREPC-WIRAB Meeting**