

Spring 2018 Joint CREPC-WIRAB Meeting

Coast Coal Harbour Hotel
1180 West Hastings Street
Vancouver, BC

<i>Wednesday April 18, 2018</i>	<i>Thursday April 19, 2018</i>	<i>Friday April 20, 2018</i>
<i>9:30 a.m. – 11:30 a.m. WIEB Annual Board Meeting</i>	<i>8:00 a.m. – 5:00 p.m. Joint CREPC-WIRAB Meeting</i>	<i>8:00 a.m. – 12:00 p.m. Joint CREPC-WIRAB Meeting</i>
<i>9:30 a.m. – 11:30 a.m. Western EIM BOSR Meeting</i>	<i>5:30 p.m. – 6:30 p.m. Women in Energy Reception</i>	
<i>1:00 p.m. – 5:00 p.m. Joint CREPC-WIRAB Meeting</i>		

Wednesday April 18th 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

The Future of Hydroelectric Generation in the West

1:15 – 1:45 p.m. **British Columbia's Site C Project**

The British Columbia Government has announced its intention to complete the 1,100 MW Site C hydroelectric project on the Peace River. The British Columbia Utilities Commission completed an [inquiry](#) examining the impact on BC Hydro ratepayers associated with continuing, suspending or terminating the Site C project. This presentation will [summarize analysis](#) that compares the completion of the Site C project to other viable energy sources such as wind, geothermal and industrial curtailment that could provide similar benefits to ratepayers.

- David Morton, Chair & CEO, B.C. Utilities Commission [[pdf](#)]

1:45 – 2:45 p.m. **Hydroelectric Policy and Licensing**

Congress is considering [legislation](#) to streamline licensing and development of hydroelectric projects in the U.S. Challenges to development include high capital costs and long construction timelines. This panel will discuss permitting timelines, which are between 10-13 years for new developments, and how they affect costs and risk profiles for hydroelectric projects, and potential policy changes and their implications for the development of hydroelectric projects in the West.

- Charles Sensiba, Troutman Sanders LLP [\[pdf\]](#)
- Kellie Donnelly, Deputy Chief Counsel, U.S. Senate Energy and Natural Resources Committee [\[pdf\]](#)
- Laura Farkas, Staff Attorney, Montana Department of Natural Resources and Conservation [\[pdf\]](#)

Background: *Streamlining the Production of Clean Energy: Proposals to Reform the Hydroelectricity Licensing Process*, Public Land and Resources Law Review (to be published, mid-2018) [\[pdf\]](#).

2:45 – 3:15 p.m. **Break**

3:15 – 4:15 p.m. **WECC Gas-Electric Interface Study**

The Western Electric Coordinating Council (WECC) has conducted an assessment of the reliability risks associated with natural gas infrastructure and its ability to meet the needs of the evolving bulk electric system in the West. WECC and its consultant, Wood Mackenzie, will present the results of this reliability assessment. The study addresses whether the bulk electric system can respond to a prolonged outage of a major natural gas pipeline in West.

- James B. Robb, President and Chief Executive Officer, NERC
- Tim Bleakley, Head of Americas Power, Wood Mackenzie [\[pdf\]](#)
- Arne Olson, Partner, Energy and Environmental Economics

4:15 – 5:00 p.m. **Alberta's Transition to a Capacity Market**

Alberta developed its energy-only wholesale electricity market in 1996. In 2016, the Government of Alberta announced a transition from an energy-only market to an energy and capacity market. Panelists will explain what led to the decision to create a capacity market in Alberta; what Alberta's capacity market will look like; what challenges they are facing in making the transition; and how they plan to address those challenges.

- Christine Lazaruk, Executive Director, Strategy and Integration, Alberta Energy
- Michael Law, Senior Vice President and Chief Operating Officer, Alberta Electric System Operator [\[pdf\]](#)

5:00 p.m. **Recess**

Thursday April 19th
Joint CREPC-WIRAB Meeting

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

8:00 – 9:00 a.m. **Electric Industry Leader Discussion**

Industry leaders will discuss priority issues that are affecting the electricity industry such as key strategic energy initiatives and significant changes that will likely confront the power industry over the next five years.

- Pat Vincent-Collawn, President & CEO, PNM Resources and Chairman, Edison Electric Institute
- Lisa Grow, Senior Vice President and COO, Idaho Power Company
- Steve Berberich, President and CEO, California ISO

Expansion of Electricity Markets in the West

9:00 – 10:30 a.m. **Regulatory Authority and Approval for IOUs to Join an ISO**

A regulatory expert will address key questions facing regulators. What types of regulatory approvals are required for a vertically integrated investor-owned utility (IOU) to join as a full participant of an ISO? How does a PUC's authority or workload change when a utility joins an organized market? What questions should state commissions be asking and considering in these approval proceedings?

- Scott Hempling, Attorney at Law, LLC

Background: [Electricity Jurisdiction](#) | [RTOs and State PUCs](#)

10:30 – 11:00 a.m. **Break**

11:00 – 11:20 a.m. **Southwest Power Pool Expansion in the West**

The Southwest Power Pool has been working with electric utilities to provide full market services in Colorado and Wyoming. This presentation will highlight the benefits and costs of the SPP/MWTG proposal.

- Carl Monroe, Executive V.P. & Chief Operating Officer, Southwest Power Pool [\[pdf\]](#)

11:20 – 11:40 a.m. **California ISO Expansion in the West**

The California ISO (CAISO) has established the Western Energy Imbalance Market and has proposed expanding this market to include day-ahead market services. This presentation will highlight the strengths of the CAISO proposal.

- Steve Berberich, President and CEO, California ISO

11:40 a.m. – Noon **Peak/PJM Connex Expansion in the West**

Peak Reliability has entered into a formal agreement with PJM Connex, a subsidiary of PJM, to jointly explore a range of potential services to advance reliability, develop an energy market in the West and further the efficient use of the transmission system. This presentation will highlight the strengths of the Peak/PJM Connex proposal.

- Stu Bresler, Senior VP of Markets and Operations, PJM [\[pdf\]](#)

12:00 – 1:00 p.m. **Lunch**

1:00 – 1:30 p.m. **Governance Discussion with SPP, CAISO, Peak/PJM Connex**

This moderated discussion will focus on the specific governance proposals of SPP, CAISO, and PJM Connex and differences between them. For example, how will regulators be included in decision making, will the governance structure be uniform throughout the market footprint, and will the interests of other stakeholders such as transmission owners and operators, non-profits and consumers be adequately represented?

Moderator: Scott Hempling, Attorney at Law, LLC

- Stacey Crowley, Vice President of Regional and Federal Affairs, California ISO
- Paul Suskie, Executive V.P., Regulatory Policy & General Counsel, Southwest Power Pool
- Stu Bresler, Senior Vice President of Markets and Operations, PJM

1:30 – 2:00 p.m. **Resource Adequacy Discussion with SPP, CAISO, Peak/PJM Connex**

This moderated discussion will focus on how SPP, CAISO, and PJM Connex plan to address resource adequacy issues such as setting planning reserve margins, determining the capacity contribution of wind and solar resources, and use of forward capacity contracts.

Moderator: Mike Florio, Florio Consulting

- Greg Cook, Director, Market and Infrastructure Policy, California ISO
- Stu Bresler, Senior Vice President of Markets and Operations, PJM
- Carl Monroe, Executive V.P. & Chief Operating Officer, Southwest Power Pool

2:00 – 2:30 p.m.

**Transmission Cost Discussion with SPP, CAISO, Peak/PJM
Connex**

This moderated discussion will focus on topics in transmission cost allocation and planning, including the creation of transmission rates within an RTO, how customers and generators who own firm transmission rights today are protected, and how transmission planning and cost allocation for new development would change in the presence of one or more regional RTOs.

Moderator: Travis Kavulla, Commissioner, Montana Public Service Commission

- Greg Cook, Director, Market and Infrastructure Policy, California ISO
- Paul Suskie, Executive V.P., Regulatory Policy & General Counsel, Southwest Power Pool
- Stu Bresler, Senior Vice President of Markets and Operations, PJM

2:30 – 3:00 p.m.

Break

3:00 – 4:00 p.m.

Clean Energy Programs in the West

Many states and provinces are implementing new strategies to meet clean energy goals. E3 has recently studied the cost effectiveness of various strategies to reach greenhouse gas (GHG) emission reduction targets in the Pacific Northwest. Alberta has implemented the Renewable Electricity Program and has experienced record breaking low prices for renewable energy and California has adopted a variation of the Clean Peak Standard, which seeks to align renewable energy output with peak electricity demand. Panelists will discuss these efforts and the results they expect.

- Arne Olson, Partner, Energy and Environmental Economics [[pdf](#)]
- Edward F. Randolph, Director, Energy Division, California Public Utilities Commission [[pdf](#)]
- Michael Law, Senior Vice President and Chief Operating Officer, Alberta Electric System Operator [[pdf](#)]

4:00 – 5:00 p.m.

Extreme Electrification of the Transportation Industry

The electrification of the transportation industry, powering vehicles by electricity rather than gasoline, diesel, or natural gas, has the potential to significantly impact infrastructure development in the electric industry.

This transition may challenge electric utility resource adequacy and may require significant grid modernization. This presentation will focus on the potential impacts of vehicle electrification on the electric utility industry.

- Jürgen Weiss, Principal, The Brattle Group [\[pdf\]](#)
- Janea Scott, Commissioner, California Energy Commission
- Brent Graham, Manager, Public Policy at FortisBC

Background: REV West Plan Memorandum of Understanding [\[pdf\]](#)

5:00 p.m.

Recess

Friday April 20th
Joint CREPC-WIRAB Meeting

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

8:00 – 9:30 a.m. **Reliability Coordination in the West**

Peak Reliability is currently the Reliability Coordinator for the Western Interconnection, with the exception of Alberta. The California ISO and the Southwest Power Pool have both recently announced plans to become Reliability Coordinators in the Western Interconnection. It is likely that we will have at least three NERC-certified Reliability Coordinators in Peak's current footprint by the end of 2019. This panel is convened to discuss the transition to additional Reliability Coordinators in the West. The moderator for this panel will present potential seams issues that could arise under this new paradigm and the panelists will respond with plans and strategies that can be used to mitigate these issues. The discussion will cover the unique operating characteristics of the Western Interconnection and will focus on improving grid reliability, rather than just meeting minimum compliance standards.

Moderator: Eric Whitley, Chief Executive Officer, GridSME

- Brett Wangen, Chief Engineering and Technology Officer, Peak Reliability
- Nancy Traweek, Executive Director, System Operations, California ISO
- Carl Monroe, Executive V.P. & Chief Operating Officer, Southwest Power Pool
- Melanie Frye, Vice President, Reliability Planning and Performance Analysis, Western Electricity Coordinating Council

Background: Preparing for Multiple RCs in the West White Paper [[pdf](#)]

9:30 – 10:30 a.m. **New Solar Interconnection Standards**

IEEE 1547 is a standard of the Institute of Electrical and Electronics Engineers meant to provide a set of criteria and requirements for the interconnection of distributed generation resources into the power grid. IEEE 1547 has recently been revised. Panelists will explain how the revised standard is likely to make its way into proceedings at Public Utility Commissions and provide guidance on selecting the options that are appropriate for different levels of PV penetration.

- Debbie Lew, GE Consulting [[pdf](#)]
- Jens Boemer, Technical Leader, Electric Power Research Institute [[pdf](#)]
- Michelle Rosier, Rates Analyst, Minnesota Public Utilities Commission [[pdf](#)]

10:30 – 10:45 a.m. **Break**

10:45 a.m. – Noon **State and Provincial Roundtable Discussion**

Each presenter will highlight key energy policies under consideration in their state or province and answer audience questions.

- **Alberta:** Christine Lazaruk, Executive Director, Strategy and Integration, Alberta Energy
- **British Columbia:** Amy Sopinka, Director, Transmission & Interjurisdictional Branch, British Columbia Ministry of Energy, Mines and Petroleum Resources
- **California:** Janea Scott, Commissioner, California Energy Commission
- **Colorado:** Frances Koncilja, Commissioner, Colorado Public Utilities Commission
- **Idaho:** John Chatburn, Administrator, Governor’s Office of Energy and Mineral Resources
- **Montana:** Laura Rennick Andersen, Bureau Chief, Montana Energy Office at the Montana Department of Environmental Quality
- **Nevada:** Angela Dykema, Director, Nevada Governor’s Office of Energy
- **Oregon:** Jessica Reichers, Technology and Policy Manager, Oregon Department of Energy
- **Utah:** Dr. Laura Nelson, Director, Utah Office of Energy Development
- **Washington:** Tony Usibelli, Special Assistant to the Director on Energy and Climate Policy, Washington Department of Commerce
- **Wyoming:** Bryce Freeman, Administrator, Wyoming Office of Consumer Advocate

Noon **Adjourn**