



# SHARING POWER: A Workshop to Promote Deeper Understanding of the Pacific States' Electrical System

February 5-6, 2017

Portland, Oregon

Northwest Power and Conservation Council, 851 SW 6th Avenue, Suite 1100

## OVERVIEW

Gridworks is hosting a two-day workshop in Portland to promote a greater understanding between Pacific Northwest (PNW) representatives and California representatives of their respective electrical systems. The workshop will focus on identifying areas of further investigation where increased collaboration and development of common information could improve reliability, reduce costs, and reduce greenhouse gas (GHG) emissions within both systems. Funding to host this event is being provided by the William and Flora Hewlett Foundation and the Energy Foundation.

Each of the six sessions will include a 45-minute opening presentation, 15 minutes for commenters to elaborate, question or provide nuance, and a final 30 minutes for open discussion and questions.

## AGENDA

Day 1: February 5		
Time	Topic	Speaker/ Facilitator
1:00pm	<b><u>Welcome and Introduction</u></b>	<ul style="list-style-type: none"> <li>Ruchi Sadhir, Office of Oregon Governor Kate Brown</li> <li>Tony Brunello, Gridworks</li> <li>Mike Florio, Gridworks</li> </ul>
1:30-3pm	<b><u>Panel 1: The Northwest Electric System</u></b> – An overview of the PNW hydropower operations, constraints, capacity, annual and seasonal energy availability under different water scenarios and effect on capacity. Water flows, their variability and effect on NW-CA intertie capacity (5-minute to 20-year outlook). Other NW resources besides hydro. Available supply and demand forecasts for the region in future years.	<p><b>Presenter:</b> Steve Kerns, Bonneville Power Administration</p> <p><b>Comments:</b></p> <ul style="list-style-type: none"> <li>Ben Kujala, Northwest Power Council</li> <li>Laura Trolese, Northwest Public Generating Pool</li> </ul>
3pm	<b>BREAK</b>	
3:20-4:50pm	<b><u>Panel 2: The California Electrical System</u></b> – An overview of the available forecasts of loads and resources in California for future years, changing resource mix, operational issues, how Resource Adequacy showings are handled; treatment of firm intertie imports; Integrated Resource Plan versus Resource Adequacy and other topics of interest to NW representatives.	<p><b>Presenters:</b></p> <ul style="list-style-type: none"> <li>Ed Randolph, California Public Utilities Commission</li> <li>Kevin Barker, California Energy Commission</li> <li>Phil Pettingill, California Independent System Operator</li> </ul> <p><b>Comments:</b></p> <ul style="list-style-type: none"> <li>Tony Braun, California Municipal Utilities Association</li> </ul>
5:00pm	<b>ADJOURN</b> (Reception at Jackknife – 614 SW 11 <sup>th</sup> Ave.)	

Day 2: February 6		
Time	Topic	Speaker/ Facilitator
8:30am	<b><u>Recap Day 1 and Overview of Day 2</u></b>	<ul style="list-style-type: none"> <li>• Mike Florio/Tony Brunello, Gridworks</li> </ul>
8:45-10am	<b><u>Panel 3: Transmission in the Northwest</u></b> – Topics to be covered include capacity to export to California, dynamic rating process, ownership and LT and ST rights, scheduling protocols, ability to import from Montana/Wyoming. Issues and challenges.	<b>Presenter:</b> Michelle Cathcart, Bonneville Power Administration  <b>Commenters:</b> <ul style="list-style-type: none"> <li>• Ben Kujala, Northwest Power &amp; Conservation Council</li> <li>• Steve Johnson, Washington Utilities and Transportation Commission</li> <li>• Dan Williams, Portland General Electric</li> <li>• Brian Fritz, PacifiCorp</li> </ul>
10am	<b>BREAK</b>	
10:30-12pm	<b><u>Panel 4: Transmission and Market Operations in California</u></b> How are imports and exports handled? How are seams issues addressed? What is the Coordination between CAISO and other CA balancing authorities. Issues and challenges.	<b>Presenter:</b> Phil Pettingill, California Independent System Operator  <b>Commenters:</b> <ul style="list-style-type: none"> <li>• Molly Sterkel, California Public Utilities Commission</li> <li>• Kevin Barker, California Energy Commission</li> <li>• Tony Braun, California Municipal Utilities Association</li> </ul>
12:00pm	<b>LUNCH</b>	
12:45-1:15pm	<b><u>Panel 5: Discuss “Sharing Power Among The Pacific States”</u></b> <b><u>paper topics:</u></b> Identify issues and opportunities for greater cooperation amongst Oregon, Washington and California.	<ul style="list-style-type: none"> <li>• Mike Florio, Gridworks</li> </ul>
1:15pm	<b>BREAK</b>	
1:30-3:00pm	<b><u>Panel 6: Next Steps:</u></b> What have we learned? What is the information or study work that can only be done through joint effort and that has good value to the regions? How would commissions/utilities seek the cooperative collection of that information? What activities are pacific coast entities doing to collect joint information? What is the timeline for that information? Next Steps: What can/should we do next? Further education and information sharing? A larger gathering? Working groups?	<ul style="list-style-type: none"> <li>• Facilitated by Gridworks</li> </ul>
3pm	<b>CLOSE OF WORKSHOP</b>	

## PARTICIPANTS

Last	First	Organization	Title
1. Anthony	Liz	Center for Energy Efficiency and Renewable Technologies	Grid Policy Director
2. Barker	Kevin	California Energy Commission	Senior Advisor to Chair
3. Braun	Tony	California Municipal Utilities Association	Counsel
4. Brunello	Tony	Gridworks	CEO and Founder
5. Cathcart	Michelle	Bonneville Power Administration	Vice President for Transmission System Operations
6. Cebulko	Brad	Washington Utilities and Transportation Commission	Policy Advisor
7. Decker	Megan	Oregon Public Utilities Commission	Commissioner
8. Ehli	Cathy	Bonneville Power Administration	Senior Manager for Markets Integration
9. Eisdorfer	Jason	Oregon Public Utilities Commission	Utility Program Director
10. Florio	Mike	Gridworks	Senior Advisor
11. Fritz	Brian	PacifiCorp	Director of Transmission Services
12. Gerlitz	Wendy	Northwest Energy Coalition	Policy Director
13. Hampton	Therese	Northwest Public Generating Pool	Executive Director
14. Hanhan	Nadine	Oregon Public Utilities Commission	Senior Utility Analyst
15. Hardie	Lisa	Oregon Public Utilities Commission	Chair
16. Heutte	Fred	Northwest Energy Coalition	Senior Policy Analyst
17. Johnson	Steve	Washington Utilities and Transportation Commission	Senior Policy Advisor
18. Jones	Phil	Western Grid Group	Director
19. Kerns	Steve	Bonneville Power Administration	Manager for Generation Scheduling
20. Koss	Valarie	Pacific Northwest Utilities Conference Committee	Deputy Director
21. Kujala	Ben	Northwest Power Council	Division Director
22. Mantifel	Russ	Bonneville Power Administration	Transmission and Policy
23. Marker	Doug	Bonneville Power Administration	Constituent Account Executive
24. Peacock	Julie	Oregon Public Utilities Commission	Senior Policy Advisor
25. Pettingill	Phil	California Independent System Operator	Director, Regional Integration
26. Prause	Elaine	Oregon Public Utilities Commission	Senior Reg. Affairs Advisor
27. Randolph	Ed	California Public Utilities Commission	Director, Energy Div.
28. Sadhir	Ruchi	Office of Oregon Governor Kate Brown	Energy Policy Advisor
29. Sterkel	Molly	California Public Utilities Commission	Energy Division Program Manager
30. Thakar	Nhidi	California Public Utilities Commission	Chief of Strategy and Ext. Affairs, Office of President
31. Trolese	Laura	Northwest Public Generating Pool	Senior Policy Analyst
32. Tisdale	Matthew	Gridworks	Executive Director
33. Yourkowski	Cameron	Renewable Northwest	Senior Policy Manager
34. Wang	Laura	Gridworks	Project Director
35. Williams	Dan	Portland General Electric	CAISO Markets Analyst