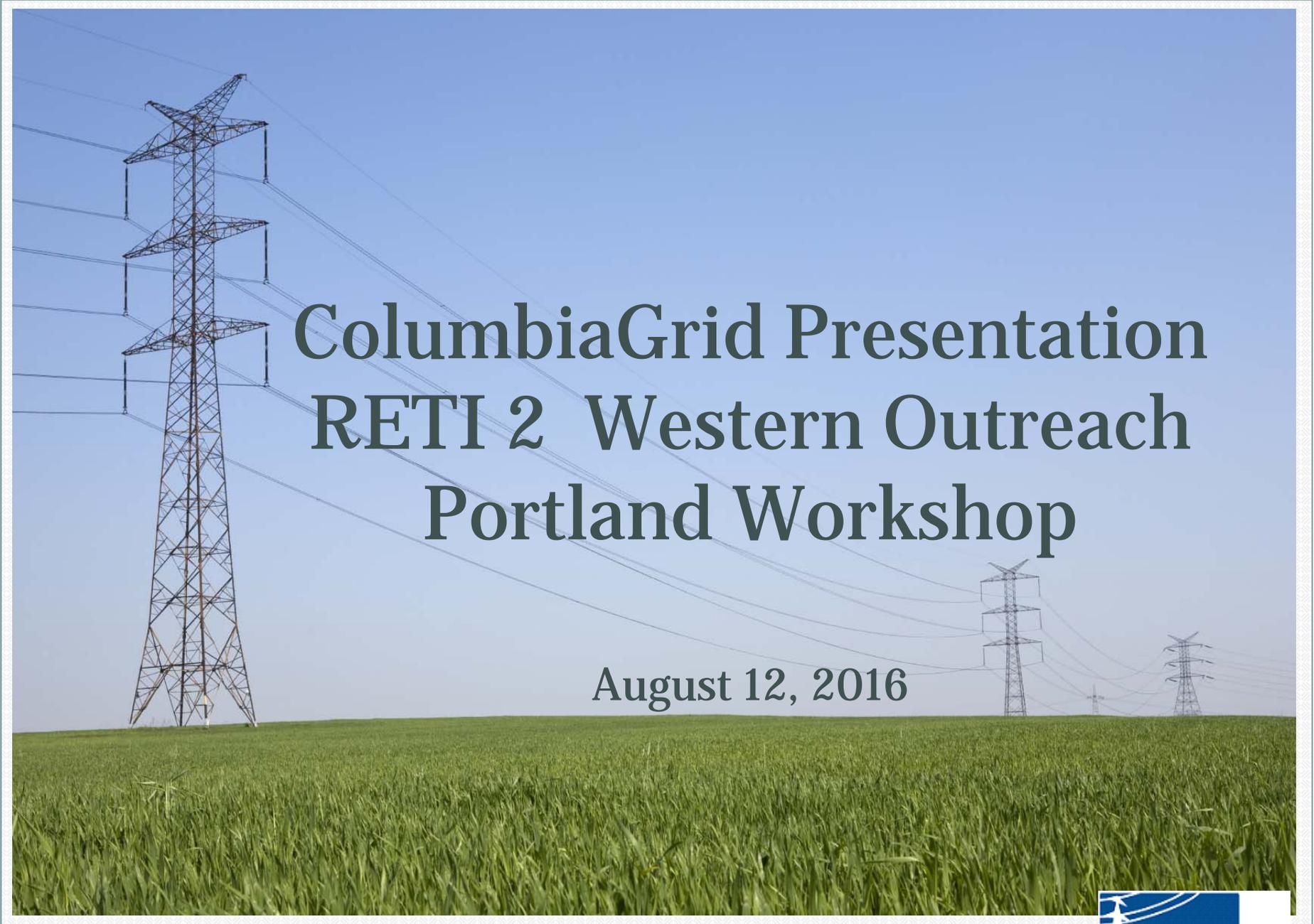


## DOCKETED

<b>Docket Number:</b>	15-RETI-02
<b>Project Title:</b>	Renewable Energy Transmission Initiative 2.0
<b>TN #:</b>	212875
<b>Document Title:</b>	Panel 2 presentation - Kevin Harris
<b>Description:</b>	RETI 2.0 Western Outreach Project: Portland Workshop 8-12-16
<b>Filer:</b>	Misa Milliron
<b>Organization:</b>	Columbia Grid
<b>Submitter Role:</b>	Public Agency
<b>Submission Date:</b>	8/19/2016 10:52:01 AM
<b>Docketed Date:</b>	8/19/2016



# ColumbiaGrid Presentation RETI 2 Western Outreach Portland Workshop

August 12, 2016

# Members and Planning Participants

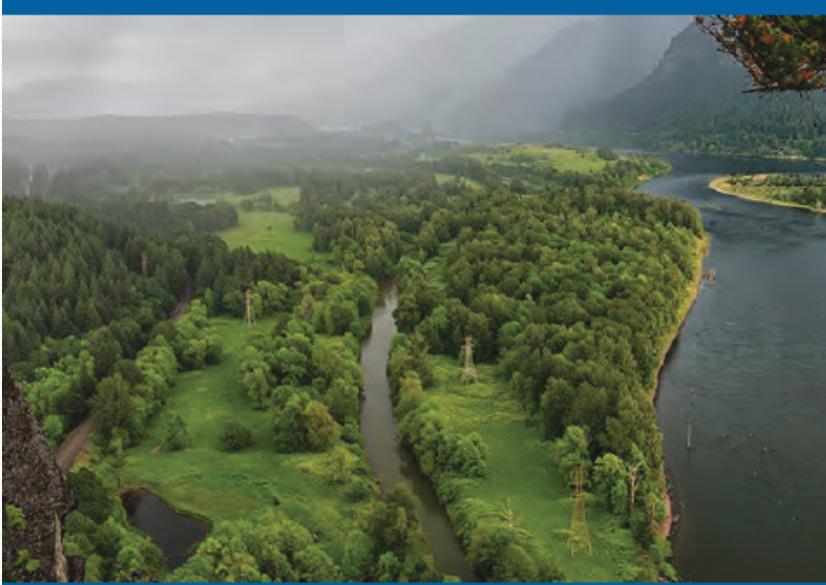


- Avista Corporation
- Bonneville Power Administration
- Chelan County PUD
- Cowlitz County PUD\*
- Douglas County PUD\*
- Grant County PUD
- Puget Sound Energy
- Seattle City Light
- Snohomish County PUD
- Tacoma Power

\* Non-Member PEFA Planning Participants

# ColumbiaGrid – Grid Planning

## 2016 System Assessment



- Member- and Participant-funded & focused Corporation (founded 2006)
- Independent Board (three Directors) and staff
- Open stakeholder process
- Develops Biennial Transmission Expansion Plan (and updates to the plan), Annual System Assessments
- Studies focused on specific issues
- Planning and Expansion Functional Agreement (PEFA) and Fourth Amended and Restated Order 1000 Agreement



[www.ColumbiaGrid.org](http://www.ColumbiaGrid.org)



# ColumbiaGrid: Technical Studies

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- Annual studies
- Reliability Assessment (Power flow, stability), Production Cost Simulation, and special studies
- Focus more on Northwest's transmission system
- 10 year planning horizon
- Use WECC's dataset/base cases as starting point
- Include information and assumptions provided by other regions
  - As part of WECC base cases/dataset development process
  - Ongoing coordination with other Western Planning Regions

# Major Findings

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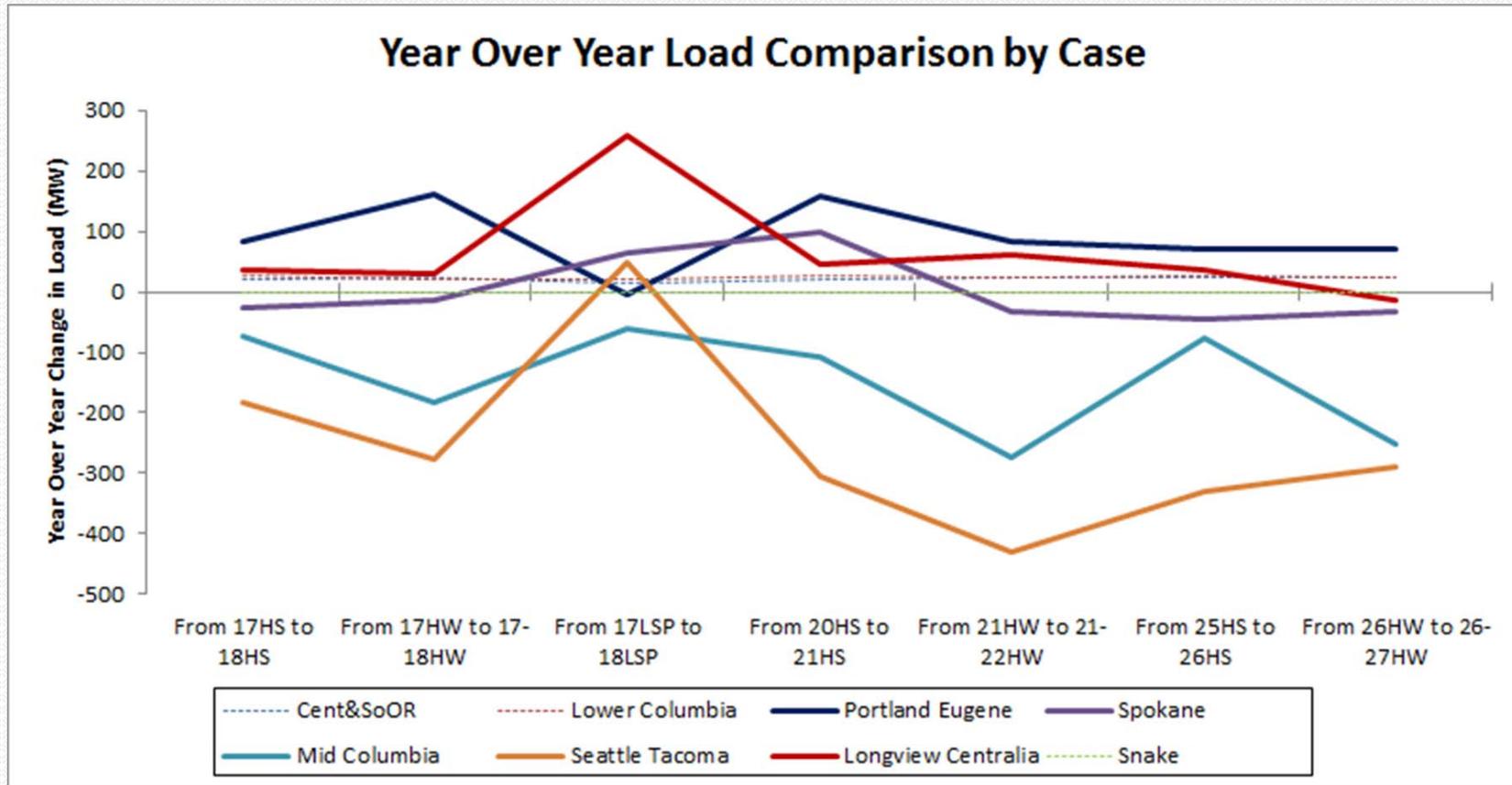
- **Currently, ColumbiaGrid has completed its 2016 System Assessment Studies**
  - Cover 7 major scenarios over the next 10 years
    - Heavy Summer
    - Light Spring
    - Heavy Winter
  - 15 areas of concerns were identified (same as last year)
  - Most of the identified issues are related to load serving capability in the local areas
  - Mitigation plans have been proposed/evaluated

# Major Findings

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- **Compare to last year's results**
  - Load reductions were observed in several areas
  - Low load growth, reduction of significant industrial loads, deployment of energy efficiency (EE) and other demand-side activities are likely to be the primary factors causing load reduction
  - No new needs for additional major system reinforcement were identified
  - In contrast, recent study results indicate potential deferral of transmission projects

# Major Findings



## Major load changes:

- Mid Columbia: Alcoa Wenatchee plant idled
- Seattle/Tacoma: Alcoa Intalco plant to idle

# Summary

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- **In the ten year planning period:**
  - Most constraint are associated with serving load (Local constraints).
  - No major constraints associated with inter-regional transfers within the NW
  - Uncertainty exist associated with inter-regional transfers due to the retirement of coal-burning generators and as to how and where the capacity and energy will be replaced
    - Transmission impacts cannot be determined until the effected utilities develop their integrated resource plans and those plans are brought to ColumbiaGrid for inclusion in the transmission planning process
  - ColumbiaGrid will continue to support regional and inter-regional planning activities



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