

# Topics (Suggested)

- Corporate Update
- Transmission Expansion Planning
- Order 1000
- Western Planning Regions Coordination (ColumbiaGrid, CAISO, NTTG, WestConnect)



# Members and Planning Participants























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

<sup>\*</sup> Non-Member PEFA Planning Participants

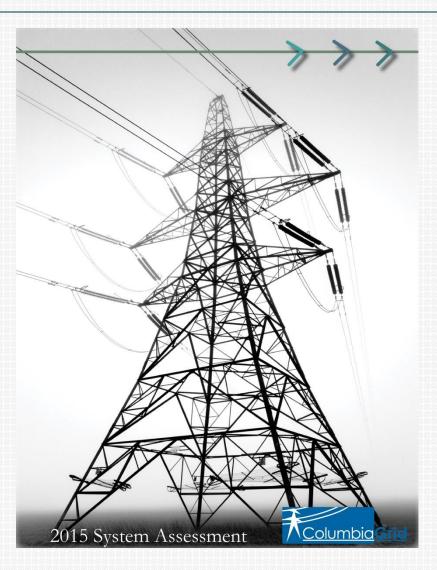


# Corporate Update

- Grid Planning Excellence costeffective grid planning
- New Services Grow Leveraging Core Strengths
- Regional Planning Efficiency, Cooperation, and Coordination



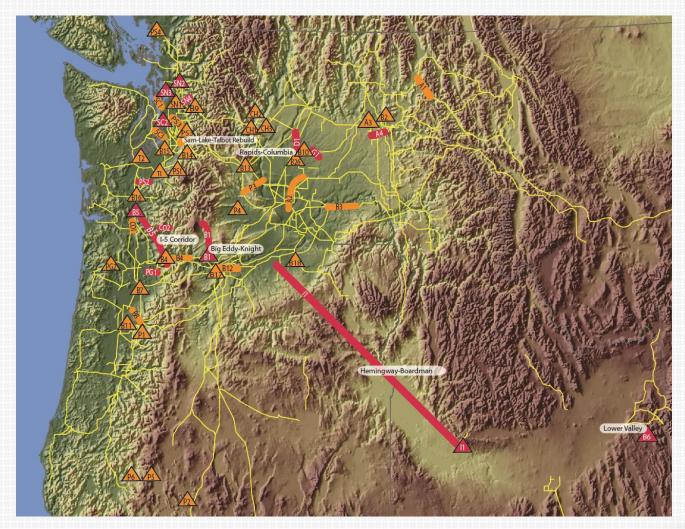
# ColumbiaGrid – Grid Planning



- Independent staff
- Open stakeholder process
- Develops Biennial Transmission Expansion Plan & Annual System Assessments
- Conducts studies focused on specific issues
- Planning and Expansion
   Functional Agreement (PEFA)
   and Order 1000 Agreement
   (O1K)



## ColumbiaGrid Ten-Year Plan





# 2015-2016 Planning Process: Status

#### Started in January 2015

- First year of Order 1000 implementation
- Single planning process, satisfies both PEFA/O1K
- Added new components i.e. suggested O1K potential needs, Cost Allocation, Interregional Transmission Project (ITP) etc.

#### • Currently, 2015 System Assessment has been completed

- Annual assessment of capability of participant systems
- Also includes new contents under O1K
- Final System Assessment report has been published

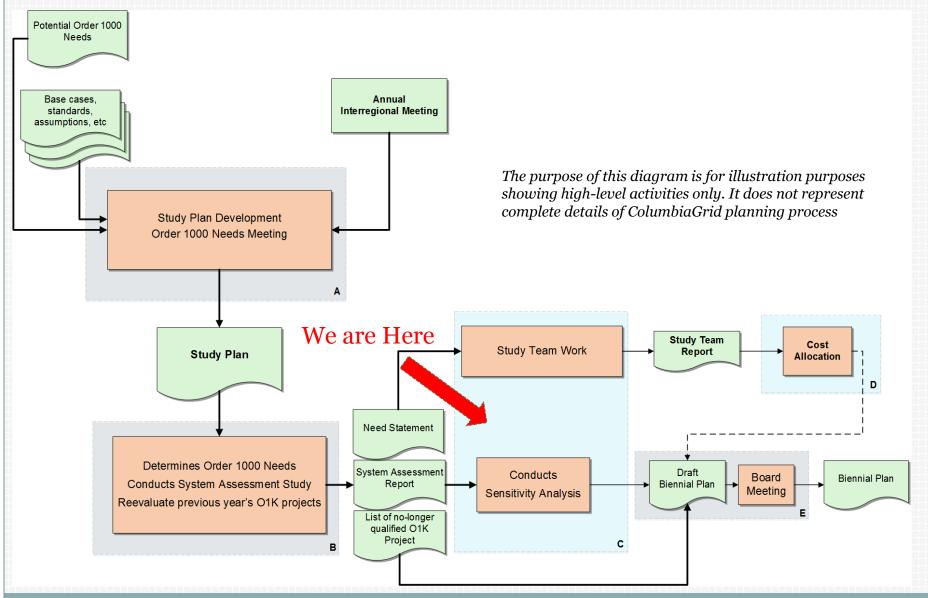


# 2015-2016 Planning Process: Status

- Ongoing activities
  - Sensitivity studies
  - Study team works
  - Economic Planning and other special studies
  - Interregional coordination
- Anticipated completion of the updated 2015
   Biennial Plan in Feb 2016



#### 2015-2016 Planning Process Status: Where we are today?



### **Focused Studies**

- 2015 System Assessment
- 2015 Sensitivity Studies
- Puget Sound Area
- Othello Area
- Economic Planning
- Variable Transfer Limit (VTL)
- WECC Project Coordination
- FERC Order 1000
- Regional Planning Coordination



### Focused Study: 2015 System Assessment

- Current status: Complete
- Include the contents that satisfy both PEFA and O1K requirements
- Major components
  - Reliability Assessment
  - Order 1000 Potential Needs
  - Re-evaluation of Order 1000 Projects
  - Updates on ongoing studies



## Focused Study: 2015 Sensitivity Studies

- Special studies
  - Each year's study scope is defined by planning parties
- Anticipated completion: October 2015
- Four studies are ongoing
  - N-1-1
  - Transient Stability
  - Extra-Heavy Winter Case
  - Inductor Switching



# Focused Study: Economic Planning

- New technical study adopted by ColumbiaGrid in 2013
- Purpose: Enhance capability to investigate impacts from arising issues such as intermittent resources or policies (e.g. GHG, Electric Vehicles etc)
- Utilize Production Cost Simulation tool
- Has the ability to simulate hourly conditions e.g. flow, congestions, prices of electricity market
- ColumbiaGrid is conducting the 3<sup>rd</sup> round of this study
  - Round 1 study focused on 2010 Backcast
  - Round 2 study focused on potential impacts from coal replacement



### Focused Study: WECC Project Coordination

- Pacific DC Intertie (Phase I 2013)
  - Celilo terminal being replaced
  - Capability could initially increase from 3100 MW to 3220 MW
  - Completed
- Central Ferry-Lower Monumental project (2014)
  - Accommodate the construction of this project
  - Completed
- Pacific DC Intertie (Phase II Ongoing)
  - Just started
  - Capability could initially increase to as high as 3800 MW
  - WECC Path Rating Phase II



### Focused Study: 2015 System Assessment

#### Order 1000 Potential Needs

- A notification (request suggestions for Order 1000 Potential Needs) was sent to stakeholders on Jan 8, 2015
- Opportunity to discuss each suggestion in Feb 5 Meeting
- No suggestion was submitted
- Re-evaluation of Order 1000 Projects
  - First year of implementation
  - No Order 1000 project from previous year



#### FERC Order 1000: Status

- FERC Order 1000: Two main components
  - Regional process: For ColumbiaGrid footprint
  - Interregional process: For the coordination among 4 Western Planning Regions
- ColumbiaGrid has implemented Order 1000 planning as of Jan 1, 2015
- West-wide implementation of O1K will start on Oct 1, 2015
  - ColumbiaGrid, CAISO, NTTG, and WestConnect
- Currently, the four Western Planning Regions are working together toward this implementation
  - Interregional Coordination



### Interregional Coordination: Background

- Development of a procedure that explains interregional coordination is being developed
  - o Common Tariff Language developed and filed in 2013
- This document typically addresses several key issues
  - Data exchange among regions
  - Potential inter-regional coordination
  - Stakeholder meetings & interactions
  - Other issues as required by the Order
- Anticipated completion: By October 2015



### Order 1000 Interregional Coordination:

- June 25, 2015 Conference Call
  - First updates since the meeting in February
- August 18, 2015 Meeting
  - At Tri-State Offices in Westminster, CO
  - Attempt to address the remaining issues
- ColumbiaGrid developing interregional coordination 'information package'
- Other regions developing a 'process narrative'
- All regions will implement the Common Tariff Language



## Interregional Coordination Updates (Cont)

