Regional Planning Process in the West

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Tribal Webinar Series
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Transmission Planning in the Western Interconnection

- Transmission Planning in the Western Interconnection has been, is, and will continue to be a hierarchy of local, regional, and interconnection-wide coordinated planning efforts

- Pre-Order 890
  - CAISO, NTTG, ColumbiaGrid, and WestConnect were already forums for collaboration and coordination
  - WECC PCC Project Coordination and Path Rating Process, Annual Study Program
  - Seams Steering Group of the Western Interconnection

- 2007 – FERC Order 890
  - Transmission planning obligations of Transmission Providers were reflected in OATT Attachment Ks
  - Memorialized the western Planning Regions as forums for regional transmission planning
  - WECC Transmission Expansion Planning Policy Committee (TEPPC) was established as the forum for interconnection-wide economic transmission expansion planning and database services
Transmission Planning in the Western Interconnection

- 2011 – FERC Order 1000
  - Expanded obligations of regional transmission planning processes
  - More efficient or cost-effective regional transmission and non-transmission alternatives
  - Regional cost allocation
  - Interregional coordination: focused coordination of planning activities conducted at the regional level
Western Interconnection Planning Regions
CAISO

- Began commercial operation March 1998
- First region in NA to fully comply with Order 1000

Table 1: CAISO Participating Transmission Owners (as of 7/22/14)

| Citizen Sunrise Transmission LLC      |
| City of Anaheim                      |
| City of Azusa                        |
| City of Banning                      |
| City of Colton                       |
| City of Pasadena                     |
| City of Riverside                    |
| City of Vernon                       |
| DATC Path 15, LLC                    |
| Pacific Gas and Electric Company     |
| San Diego Gas and Electric Company   |
| Southern California Edison Company   |
| Startrans IO, LLC                    |
| Trans Bay Cable LLC                  |
| Valley Electric Association, Inc.    |
| Western Area Power Administration, Sierra Nevada Region |

Phase 1
(3 months)

- Developing unified planning assumptions and study plan
- Developing the scope and details of technical studies to be executed for the planning cycle
- Identifying public policy objectives to adopt as the basis for identifying policy-driven transmission elements
- Preparing a conceptual statewide plan

Phase 2
(15 months)

- Conducting technical studies to determine the needs for transmission additions and upgrades
- Developing a comprehensive Transmission Plan
- Approval of Transmission Plan by CAISO Governing Board

Phase 3
(duratio varies)

- Competitive solicitation process for reliability-driven, category 1 policy-driven or economic-driven transmission elements (excluding projects that are modifications to existing facilities or local transmission facilities) approved in the Transmission Plan
- Evaluation of proposals and selection of individual project sponsors
NTTG

• Formed in 2007 from Northern Tier Initiative to fulfil FERC Order 890 requirements
• Unincorporated association of TPs and customers
• Collaborate with state representatives and other stakeholders
• Today is a FERC Order 1000 Planning Region

NTTG Participating Utilities

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<tr>
<th>Deseret Generation &amp; Transmission Co-operative</th>
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<tr>
<td>Idaho Power</td>
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<td>NorthWestern Energy</td>
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<td>PacifiCorp</td>
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<td>Portland General Electric</td>
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<td>Utah Association of Municipal Power Users</td>
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ColumbiaGrid

- Non-profit member corporation formed in 2006
- Planning and Expansion Functional Agreement (PEFA) defines coordinated transmission planning process
- First Amended and Restated Order 1000 Functional Agreement works with PEFA to carry out a single, coordinated transmission planning process

<table>
<thead>
<tr>
<th>Planning Parties</th>
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<tr>
<td>Avista*</td>
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<tr>
<td>BPA</td>
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<td>Chelan</td>
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<td>Cowlitz</td>
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<td>Douglas</td>
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<tr>
<td>Enbridge (MATL)*</td>
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<tr>
<td>Grant</td>
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<tr>
<td>Puget*</td>
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<tr>
<td>Seattle</td>
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<td>Snohomish</td>
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<td>Tacoma</td>
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*Party to both the PEFA and Order 1000 Functional Agreement. Others are party to only the PEFA.
WestConnect

- May 2007 - WestConnect Project Agreement for Subregional Transmission Planning
- Formed Planning Management Committee (PMC)
- Satisfied compliance with FERC Order 890
- No region wide technical studies

**WestConnect Order 890 PMC Members**

<table>
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<tr>
<th>Arizona Public Service</th>
<th>Southwest Transmission Cooperative</th>
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<tr>
<td>Basin Electric Power Coop</td>
<td>Transmission Agency of Northern California</td>
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<tr>
<td>Black Hills Corporation</td>
<td>Tri-State G &amp; T Association</td>
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<td>El Paso Electric</td>
<td>Tucson Electric Power</td>
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<td>Imperial Irrigation District</td>
<td>Western Area Power Administration</td>
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<tr>
<td>NV Energy</td>
<td>Los Angeles Department of Water and Power</td>
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<tr>
<td>Xcel Energy</td>
<td>Platte River Power Authority</td>
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<tr>
<td>Public Service New Mexico</td>
<td>Colorado Springs Utility</td>
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<tr>
<td>Sacramento Municipal Utility District</td>
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<td>Salt River Project</td>
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- Fifteen TO’s have signed the WestConnect Planning Participation Agreement (PPA) to become members of new Order 1000 PMC
- All FERC Jurisdictional TOs joined as Enrolled Members (APS, EPE, NVE, Xcel, PNM, TEP, and BHC)
- WAPA, TANC, SMUD, TSGT, Platte River, and Basin Electric joined as Coordinating Transmission Owners
Interregional Planning Coordination

- No formal, documented process for coordinating planning data or activities across the western Planning Regions

- Many interregional coordination efforts to-date have been facilitated at the WECC level

- Order 1000 interregional planning coordination requirements:
  - Commitment to coordinate and share information from regional processes (annual interregional information, annual interregional coordination meeting)
  - Identify possible interregional transmission facilities that are more efficient or cost-effective than separate regional facilities
  - Formal procedure for joint evaluation of interregional projects
  - Commitment to maintain a method for communicating information related to the interregional coordination process
  - No requirement for the creation of an interregional planning process, interregional planning entity, or interregional transmission plan
Interregional Planning Coordination

- The four western Planning Regions developed and filed common tariff language to address the interregional compliance requirements
  - Regions achieved full compliance with interregional requirements on June 1, 2015
  - Effective date of ColumbiaGrid interregional planning process is 1/1/2015
  - Effective date of CAISO, NTTG, and WestConnect interregional planning is 10/1/2015

- February 26, 2015 Western Planning Regions Coordination Meeting

- June 25, 2015 Western Planning Regions Stakeholder Coordination Call
  - Update on progress developing interregional coordination procedures

- August 18, 2015 - second Western Planning Regions Coordination Meeting
  - Final draft of the Interregional Transmission Coordination Procedures
  - Compliance date – October 1, 2015

- Next Steps: finalize interregional coordination procedures, joint ITP evaluation process; implement interregional Order 1000 – Meeting February 25, 2016
Year 2 Swim Lanes

Interregional Coordination Process Representative Schedule (Year 2)

**Update and Annual Meeting**
- **Year 1**: Draft Study Plan
- **Year 1**: Draft Study Plan
- **Year 1**: Receive Regional and ITP Project Data
- **Year 1**: Update ITP Data
- **Year 1**: Annual Interregional Coordination Meeting

**Analysis**
- **Year 1**: Incorporate Updates ITP Status and Cost Assignment
- **Year 1**: Final Study Plan
- **Year 1**: Regional and ITP Evaluation and Benefits
- **Year 1**: Annual Information Exchange 8/2
- **Year 1**: Joint Evaluation of an ITP 8/2

**Approval**
- **Year 1**: ITP and Regional Plan Final Analysis and Cost Allocation
- **Year 1**: Preliminary Determination of ITP Selection and Cost Allocation
- **Year 1**: Stakeholder Participation in Regional Processes
- **Year 1**: Regional Cost Allocation 9/1
- **Year 1**: Regional Cost Allocation (not all Select) 9/2

**Final Transmission Plan with Cost Allocation**
- **Year 1**: Final Transmission Plan with Cost Allocation
- **Year 1**: Final Transmission Plan with Cost Allocation
- **Year 1**: Final Transmission Plan with Cost Allocation
- **Year 1**: Receive Regional Transmission Plan

Interregional Data Sharing

Next Cycle Quarter 1
Look Ahead

- **Order 1000 Regional Planning is in effect for all four western Planning Regions**
  - Northern Tier Transmission Group (NTTG) and CAISO have achieved full compliance with the regional and interregional planning requirements of Order 1000
  - ColumbiaGrid and WestConnect members are awaiting orders on their fourth round of regional compliance filings, tariff revisions became effective January 1, 2015

- **Attention is turning to the development of Order 1000 interregional coordination procedures**
  - Differences between regional planning processes will need to be addressed
    - Variations in planning cycle durations, timelines for major milestones, sources of planning data, technical study approaches
  - What role does WECC play in the IR coordination process?

- **Remaining challenges**
  - Ensure consistency of planning assumptions across the Regions to inform all levels of planning (local, regional, interconnection-wide)
  - ColumbiaGrid, NTTG, and WestConnect are all implementing cost allocation and project developer selection for first time with many details left to determine
  - What will be the first project outside CAISO to receive regional cost allocation?