



Presentation Prepared by Brad Nickell

Regional Transmission Expansion Planning (RTEP)

BPA Transmission Customer Forum

October 25, 2012

RTEP Update

Today's Discussion

- RTEP Background
- What to expect in the 2013 Plans
- FERC Order 1000

About WECC

WECC's mission is to promote and foster a reliable and efficient bulk electric system

Non-Planning Functions

- Compliance Monitoring and Enforcement
- Standards Development
- Reliability Coordination
- Market-Operations interface
- Operator training
- WREGIS

Planning Functions

- Loads and Resources Assessments
- Reliability studies
- **Transmission Expansion Planning**



Regional Transmission Expansion Planning History of Interconnection-wide planning in the West

- Planning cooperation among Western Interconnection entities
 - Create economic planning data sets
 - Perform interconnection-wide transmission expansion studies
 - Process consistent with applicable FERC Order 890 planning principles
- Governed by the WECC Transmission Expansion Planning Policy Committee (TEPPC)



Regional Transmission Expansion Planning

What have we been asked to do?

WECC received a \$14.5M grant from DOE to expand the breadth and depth of WECC's existing regional transmission planning processes.

- Expand stakeholder participation
- Increase the understanding of the connection between reliability, cost, and environment
- Produce credible, publically available data and models

WECC expects this work to continue after the grant funding ends



WECC RTEP

What are we planning for?

Regional Transmission Expansion Planning (RTEP)

- Identification of future infrastructure needs to
 1. Serve the expected load reliability
 2. Meet public policy directives
 3. Minimize cost and environmental impact
- The primary goal of RTEP is to understand the connection between energy policy, cost, environmental impacts, and energy infrastructure choices.



RTEP

Deliverables

- 2011 Deliverables
 - Create a multi-constituency steering group
 - 10-Year Regional Transmission Plan
 - Create new long-term planning tools
 - Create educational materials
- 2013 Deliverables
 - 10-Year Regional Transmission Plan
 - 20-Year Regional Transmission Plan

2013 Transmission Plans

Making it useful – Value to Stakeholders

Our diverse stakeholders have varying needs and expectations of the 2013 Plans and the RTEP process.

What does success look like?

- Created credible data and models for others to use in their respective planning processes
- Connected energy futures to transmission needs, costs, and environmental impacts
 - Goals-Assumptions-Analysis-Results
 - Stories for others to use in their decision-making processes
- Discussed pertinent energy planning issues



2013 Transmission Plans Enhancements from 2011

- Cost of cycling
- Flexibility Reserve calculation
- Environmental data
- Capital cost calculation methodology
- Improved demand-side modeling
- Energy-water nexus
- Connection of studies with scenarios
- Reliability analysis of the 2022 Common Case
- 2010 Benchmarking Case

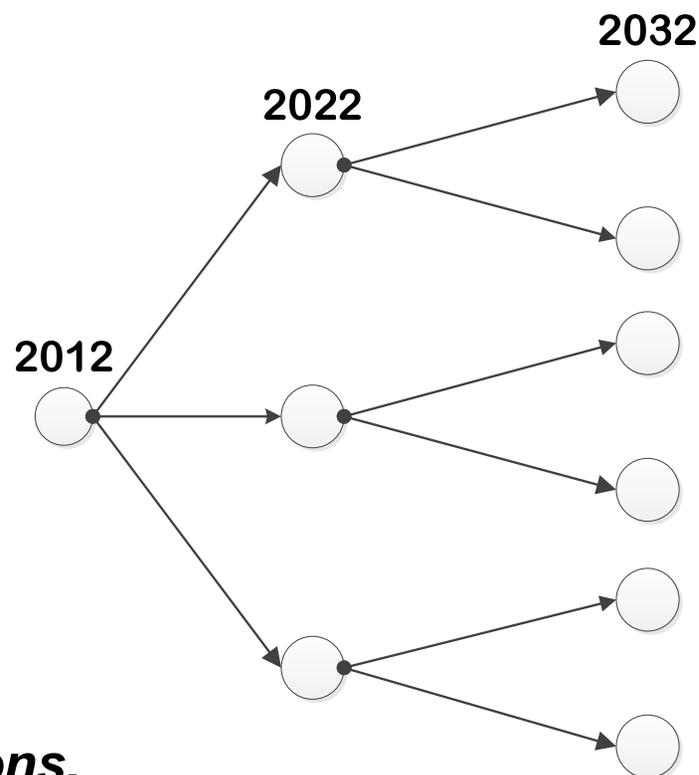
2013 Transmission Plans

Connecting the Dots

How might the Western Interconnection need to change to accommodate changes in the supply and demand for electric energy?

- 10-year – understanding impacts of near-term decisions (bottoms-up)
- 20-year – understanding drivers of potential energy futures (top-down)
- The Plans tell the story of how they are connected

*Understanding the impacts of decisions,
not determining what should be done*



FERC Order 1000

Summary

- Expands transmission planning to include:
 - The creation of regional transmission plans
 - Interregional planning cooperation
 - Connecting planning to cost allocation
 - The creation of interregional cost allocation procedures
 - Same tariff language provision
- WECC has no direct obligations, but there are various ways WECC could help fulfill certain provisions of the Order



FERC Order 1000

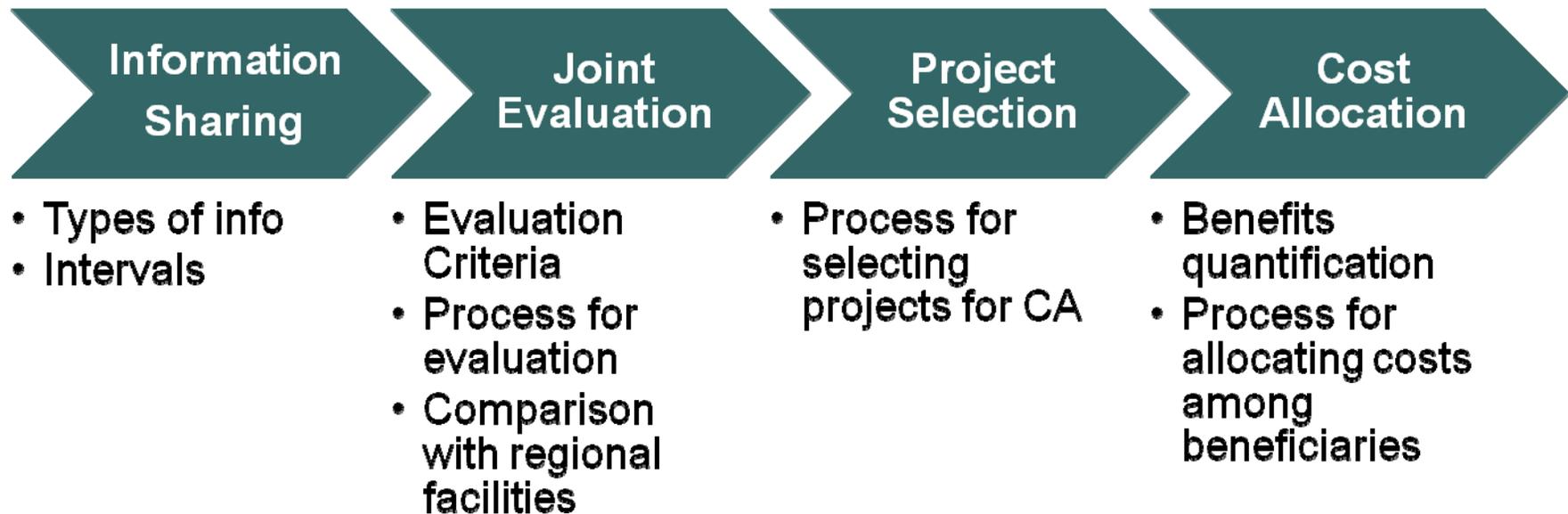
Geography of the Order



- FERC “regions” are synonymous with WECC SPGs
- Interregional” means between or among regions and include interconnection-wide activities

Interregional Provisions

Summary of Requirements



Compliance filling due April 2013

FERC Order 1000

Overview of WECC Actions

WECC continues to work with stakeholders to understand their potential needs under the Order

- Gathering broad stakeholder input on what activities should be performed at the interconnection-wide level
 - Data and model preparation
 - Planning studies
- Working with Subregional Planning Groups (SPG) on regional-interregional coordination
 - Assisting with SPG Planning Cycle alignment
 - November 7 meeting to discuss interregional cooperation



Questions

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All information on the WECC 10-Year
Regional Transmission Plan may be found
at <http://www.wecc.biz/10yrPlan>.