



*Western Electricity Coordinating Council*

# **10-Year Regional Transmission Plan Whitepaper**

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## **Stakeholder Outreach Webinar**

November 2, 2010

**10-Year Plan Task Force**

# *Webinar Format*

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- All lines will be muted until Q&A periods
  - After each section of the Whitepaper
  - After completion of entire presentation
- Raise hand to ask a question
  - The moderator will call on you and un-mute your line
- Written questions are accepted at any time
  - Use the “chat box”

# *Today's Discussion*

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- Introductions
- Task Force Activities
- Stakeholder Questions
- Whitepaper Overview
  - Background
  - Stakeholder Process
  - Analytic Approach
  - Appendices
- Q&A

# *10-Year Regional Transmission Plan Response to Stakeholder Questions*

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- Task Force Created by TEPPC and SPSG Chairs
  - Task Force from across our stakeholder classes working with WECC Staff
  - Draft Whitepaper for discussion
- Whitepaper
  - Respond to stakeholder questions
  - Outline contents of the Plan
  - Describe the process for decisions

# 10-Year Plan Task Force

<b>Name</b>	<b>Organization</b>	<b>Representing</b>
Bill Pascoe	TransWest Express	Independent Transmission Developers – Task Force Chair
Grace Anderson	California CEC	State Energy Agencies
Jim Baak	Vote Solar Initiative	Renewable Advocate
Jeff Billinton	AESO	Canadian Utility
Scott Cauchois	TEPPC Chair	TEPPC/WECC Board
John Cupparo	PacifiCorp	Large Utility – WECC Board
Susan Henderson	Xcel Energy	Subregional Planning Groups
Ed Higginbottom	BCTC	Canadian Utility
John Savage	Oregon PUC	WGA CREPC
Julia Souder	Clean Line Energy Partners	Transmission Operators, Owners and Developers
Jim Tarpey	Colorado PUC	State Utility Commissions – SPSG chair
Carl Zichella	Natural Resources Defense Council	Environmental Advocate
Bradley Nickell	WECC	WECC Staff Lead – Editor
Steve Walton	WECC	TEPPC facilitator
Deston Nokes	WECC	Technical Writer

# *Task Force Activities to Date*

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- September 15-17 – SPSG & TEPPC meetings
- September 24 – TF members named by Chairs
- October 1 – First TF call
- October 15 – First draft of Whitepaper
- October 19 – TF comments on first draft
- October 21 – 2<sup>nd</sup> draft of Whitepaper
- October 25 – TF drafting meeting
- October 29 – Whitepaper released for stakeholder comment
- November 2 – Whitepaper outreach webinar

# *Stakeholder Questions (1)*

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1. What are the Plan's goals?
2. How will the Foundational Projects be incorporated into the Plan?
3. Will the 10-Year Transmission Plan identify specific transmission capacity additions (i.e., 1000 MW of transmission capacity between New Mexico and Southern California) and recommend that these additions be implemented?
4. Will the 10-Year Transmission Plan identify specific transmission projects and recommend that these projects be built?

# *Stakeholder Questions (2)*

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5. By identifying specific transmission capacity additions or projects, will the 10-Year Transmission Plan be identifying renewable resources?
6. How will the 10-Year Transmission Plan address a range of study cases?
7. What differences, if any, do we anticipate between a 10-Year Transmission Plan (delivered in 2011 and 2013) and a 20-Year Transmission Plan (delivered in 2013)?

# *Whitepaper Organization*

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- Introduction and purpose
- Background on planning
- Stakeholder process for creating the Plan
- Analytic approach for developing the Plan
- Appendices

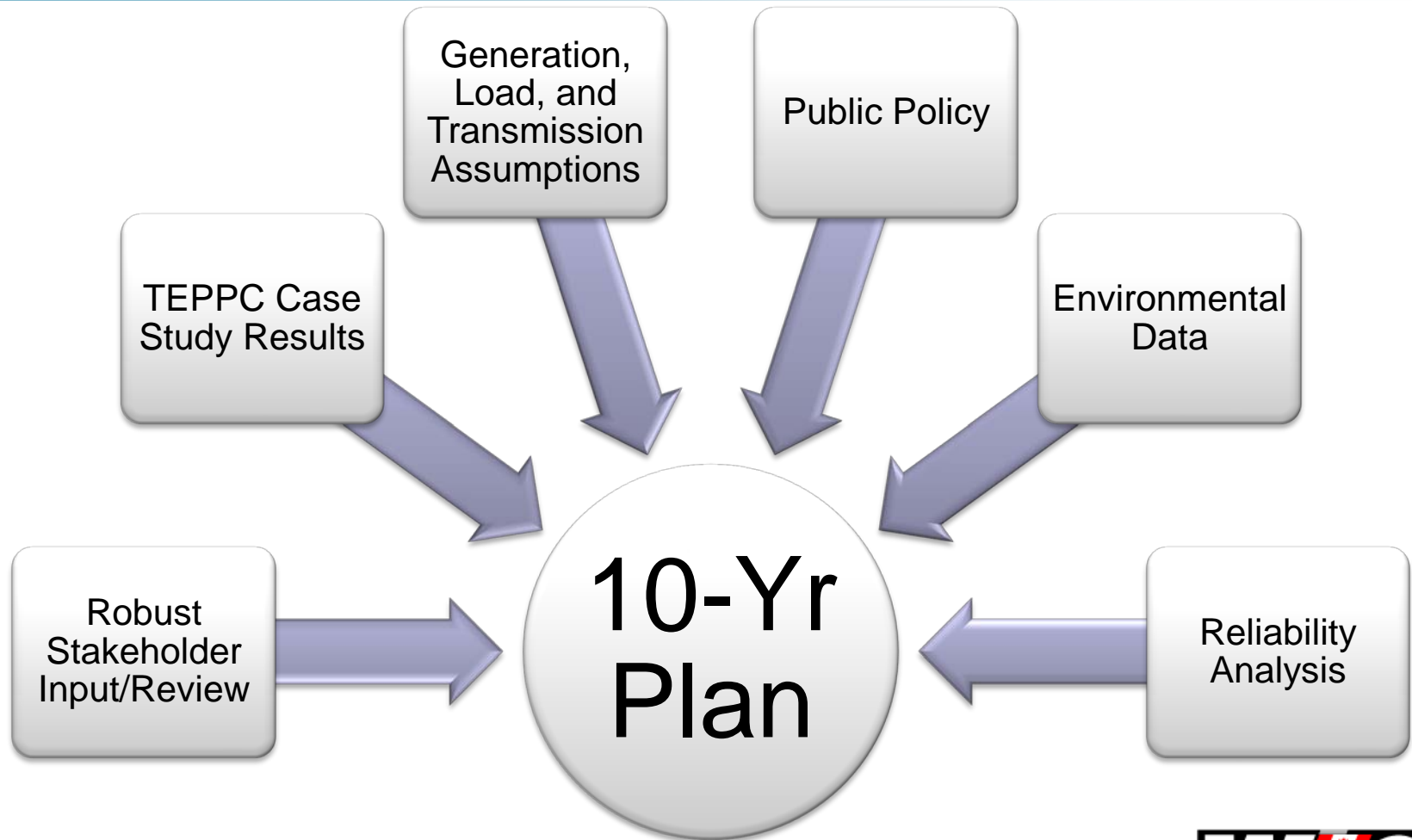
Purpose of today's discussion is to outline what's in the Whitepaper, not deliberate over its contents

# *Background on Regional Planning*

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- Geographic division of labor
- Time horizons
- Comparison of 10 and 20 Year Plans
  - Purpose
  - Process
  - Key drivers

# 10-Year Regional Transmission Plan



# *Components of the Plan (1)*

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- The Plan will list and explain load, generation, and transmission assumptions; and the basis for those assumptions.
- The Plan will recognize past transmission planning processes
  - Projects have a high probability of being in-service before 2020
    - SCG Foundational Projects
    - Local system additions
- The Plan will include sensitivity analyses of assumptions

# *Components of the Plan (2)*

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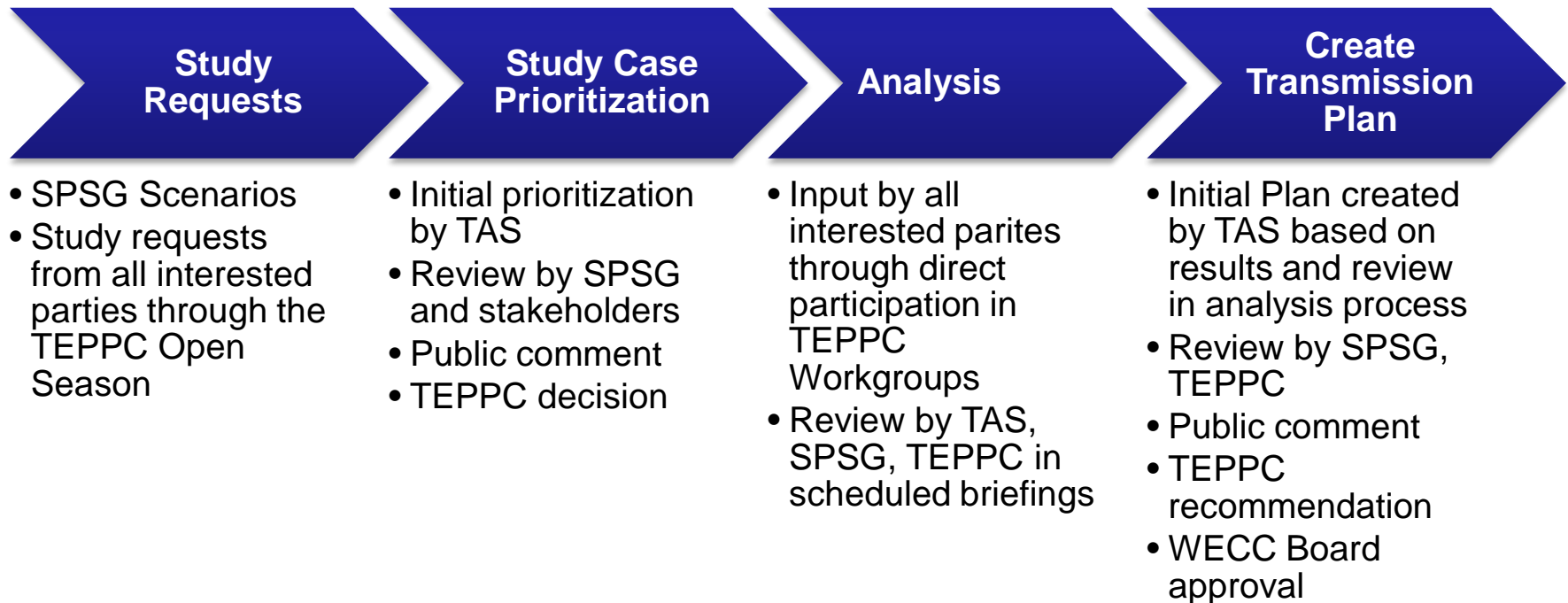
- The Plan will identify where there is significant congestion
- The Plan will identify potential capacity additions necessary to address identified congestion
  - And will identify and detail known transmission projects that meet potential capacity additions
- The Plan will include conditional transmission additions
- The Plan will report on the reliability impacts of projects and capacity additions identified in the Plan

# *Stakeholder Process*

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- Organizations Involved
- Stakeholder representation
- Roles in approving the plan

# Plan Process – Organizational Roles



# *Analytical Approach (1)*

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1. Acquire System Data, Modeling Tools and Abilities
2. Prepare the TEPPC Study Program
3. Develop the TEPPC Base Case Assumptions
4. Characterize the Study Cases
5. Conduct Production Cost Modeling of Study Cases – **Where we are now**
6. Analyze Existing Transmission System Congestion

# *Analytical Approach (2)*

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7. Evaluate Forecasted System Congestion Patterns and Relationships
8. Screen Proposed Solutions for Environmental Economic, and Policy Considerations
9. Overlay Potential Solutions on Congested Paths
10. Conduct Transmission System Assessment for Reliable Service
11. Identify critical paths and Transmission expansion solutions
12. Propose Recommendations for Planning and Plan Implementation.

# *Example – Steps 7-12*

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7. Over a number of study cases, Path A appears to be congested – labeled as “Recurrent” congestion
8. Path A connects multiple load centers with a renewable energy zone
9. There are 3 projects in the “project toolbox” that appear to fit Path A
10. One of the Powerflow studies looks at Path A and reports on any identified reliability issues
11. The capacity addition for Path A is organized as “Recurrent”
12. The Path A example is figured into the “Recommendations”

# *Appendices*

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- Discussion Questions
- Plan Prologue
- Draft Outline of Plan Report
- 10-Year Task Force members
- TEPPC Members
- SPSG Members
- SPSC Members
- SPG Members
- 2010 TEPPC Study Program study cases
- Glossary of Terms and Acronyms

# *Commenting on the Whitepaper*

## **Commenting Procedure**

- To have text added/changed/deleted, highlight the text you want changed and insert a comment with the revised text or editing instructions.
- To request clarification, simply add a comment at the location of the question.
- To add an overarching comment on the document, insert a comment at the front of the document.
- For overarching comments on a section, insert a comment at the section header.

## **Guidelines for Comments**

- **Comments are due on November 15, 2010**
- Please wait until after the joint TEPPC-SPSG meeting to submit your comments

# *Next Steps*

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- Joint TEPPC-SPSG meeting
- Whitepaper will be revised based on written comments and TEPPC-SPSG discussion (4.0)
- Whitepaper will be discussed at the WECC Board meeting
  - Whitepaper will be revised based on that discussion (5.0)
- Whitepaper is expected to become static at that time

# *Joint TEPPC-SPSG Meeting*

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- November 9 – all day
- TEPPC and SPSG members are expected to have read the Whitepaper
- Discuss
  - “What’s in the Plan”
  - “How do we get there”
- Gather stakeholder input
  - What do I want from the Plan?
  - Additions, changes, deletions from Whitepaper

# Questions

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**All information on the RTEP project can be found on the WECC website at**  
<http://www.wecc.biz/Planning/TransmissionExpansion/RTEP/Pages/default.aspx>