

# Regional Transmission Expansion Planning

RETI Stakeholder Steering Committee  
October 7, 2010

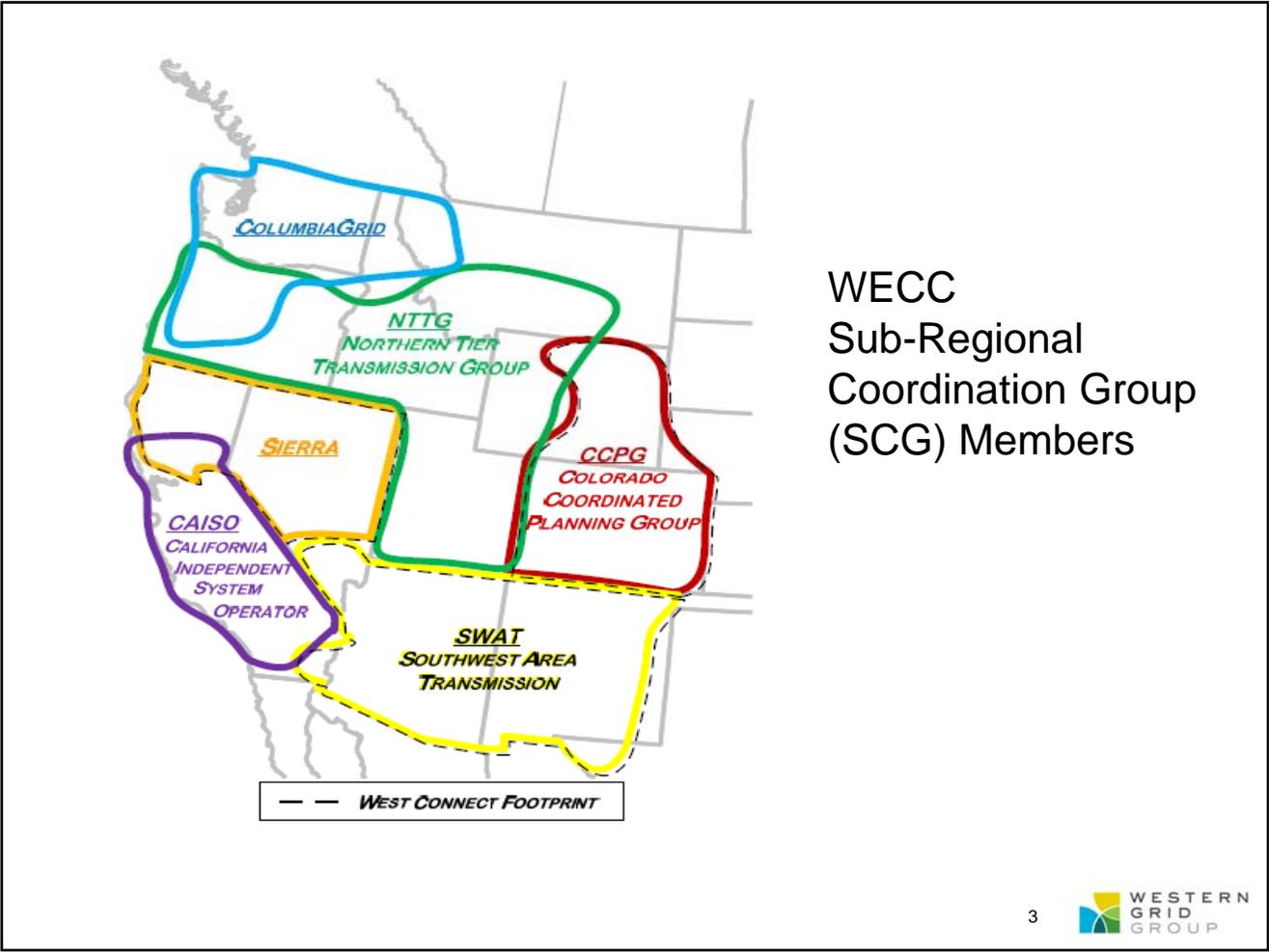
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[www.westerngrid.net](http://www.westerngrid.net)

## Western Grid Group

- Leads Western Clean Energy Advocates to outline transition to sustainable electric sector
- Supports WECC Efficient Dispatch; Joint Initiatives (WestConnect, ColumbiaGrid, NTTG);
- Expanded utilization of existing grid
- Transmission access for clean resources
- Reduce cost of integrating renewables
- Supports WECC RTEP - Regional Transmission Expansion Planning



WECC  
 Sub-Regional  
 Coordination Group  
 (SCG) Members

## RTEP Background

- First-ever interconnection-wide plans, in Western, Eastern, ERCOT interconnects
- DOE ARRA funding
  - \$14.5 million to WECC; includes funding to involve stakeholders
  - \$16 million to Western Governors Association
  - Grants awarded December 2009
- 10-year plan to DOE: September 2011
- 20-year plan to DOE: September 2013

## RTEP Goals

- Understand infrastructure requirements for transition to a low carbon future
- Strengthen, expand inter-utility and sub-regional planning coordination
- Incorporate stakeholder input; build understanding of infrastructure need and design issues
- Identify commercial transmission projects

# RTEP Structure

## Scenario Planning Steering Group (SPSG)

- Recommends scenarios TEPPC to model, key assumptions, modeling tools
- Environmental Data, other task forces

## State-Provincial Steering Committee (SPSC)

- Organizes state input, support for scenarios
- 2 members from every state
- DSM, Grid Utilization, Scenario work groups

TEPPC conducts planning studies to understand 2020, 2030 infrastructure needs

## SPSG Members

- 8 Utility, WECC Board members
- 9 State-Provincial members
  - CA: Dian Grueneich, CPUC; Grace Anderson, CEC
- 2 DOE members, ex-officio
- 9 Stakeholder members: energy efficiency, solar, wind, geothermal; IPPs; lands; wildlife; independent transcos; tribes

## Scenario Inputs

Loads: SPSC consensus DSM forecast

Resources: Build on WREZ, RETI, other state  
RE zone work

- Resource planner preference for closer to load
- Environmental evaluation challenges

Incorporate lands, wildlife, water constraints

Transmission: Build on sub-regional planning

- Including CA import assumptions