



Committee on Regional Electric Power Cooperation

November 6, 2007

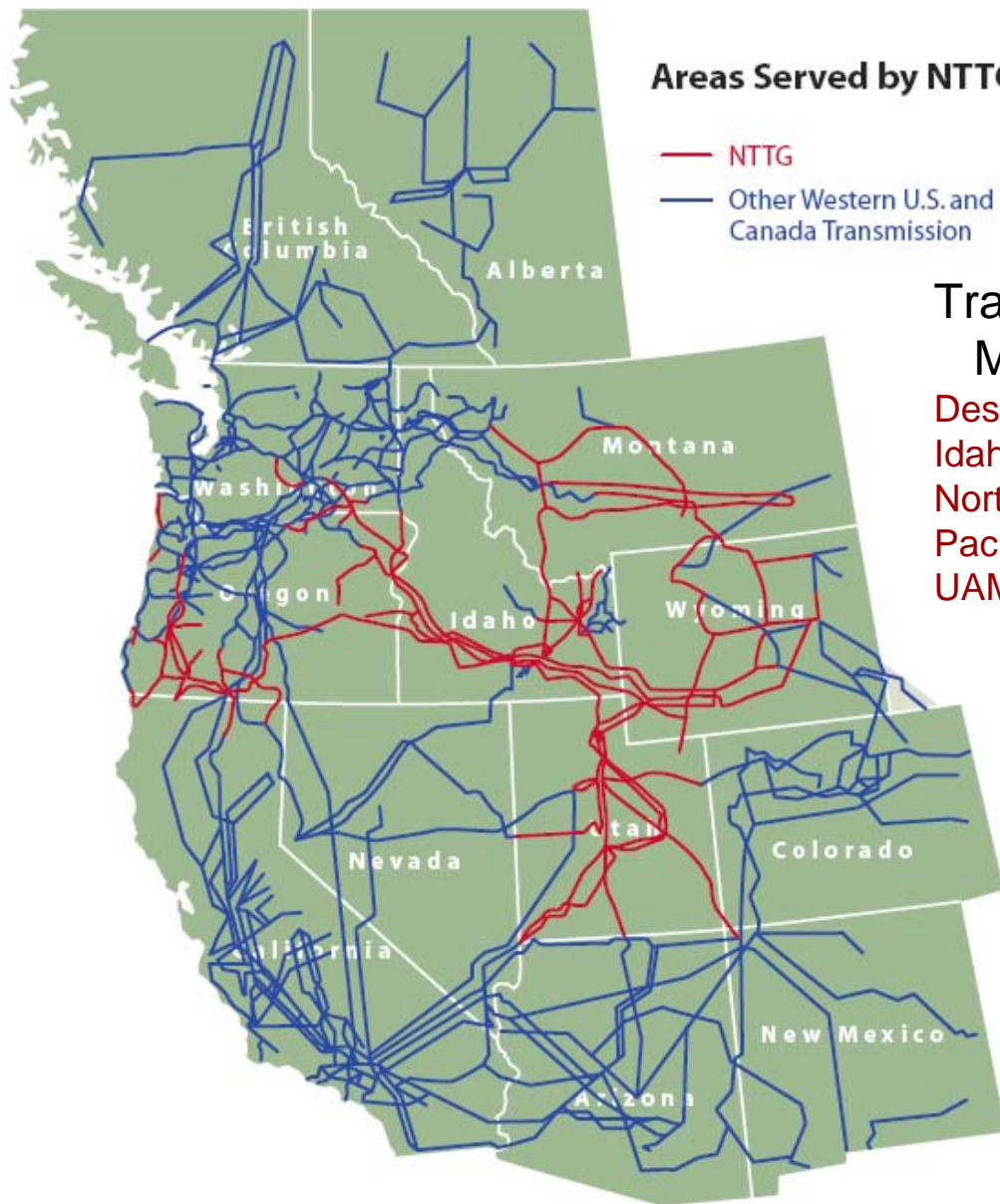
Tucson, Arizona

Kip Sikes – NTTG Planning Committee Chair

“To ensure efficient, effective, coordinated use & expansion of the member’s transmission systems in the Western Interconnection to best meet the needs of customers & stakeholders. “



Northern Tier Transmission Group



Transmission Members:

Deseret Power
Idaho Power
Northwestern Energy
PacifiCorp
UAMPS



Agenda

- ADI Update
- Update on Transmission Projects
- Review of Planning Processes and Coordination



ACE Diversity Interchange

- ADI – pooling of Area Control Errors (momentary imbalances of generation and load) to take advantage of diversity
- No harm, no foul – larger group makes more winners, suspend if problems
- Reduce sensitivity to volatile resources/loads
- In operation – expect a number of WestConnect members to join soon

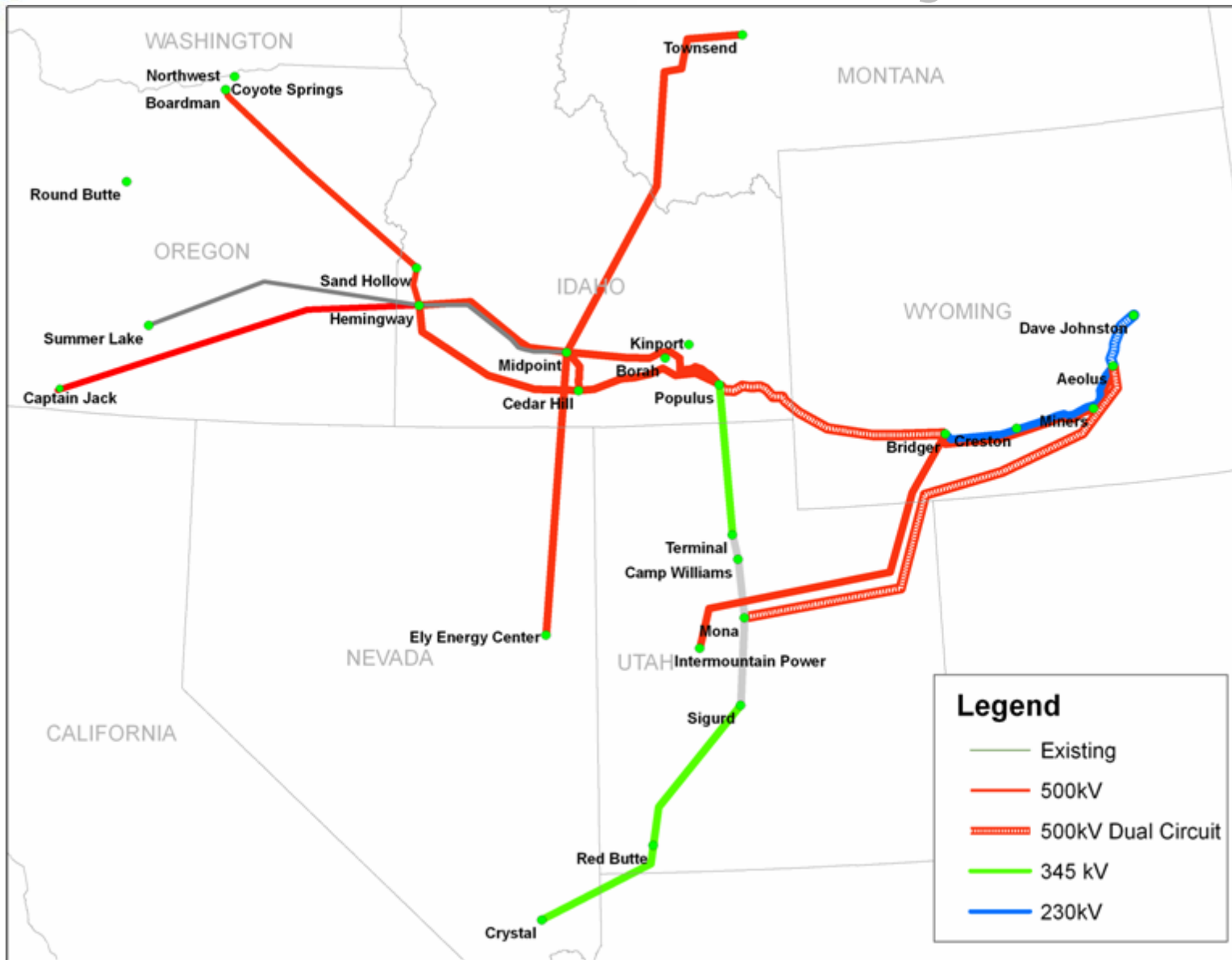


Transmission Projects

- Gateway West
- Gateway South / TransWest Express / Wyoming West
- Mountain States Transmission Intertie
- Southwest Intertie Project
- Idaho - Northwest

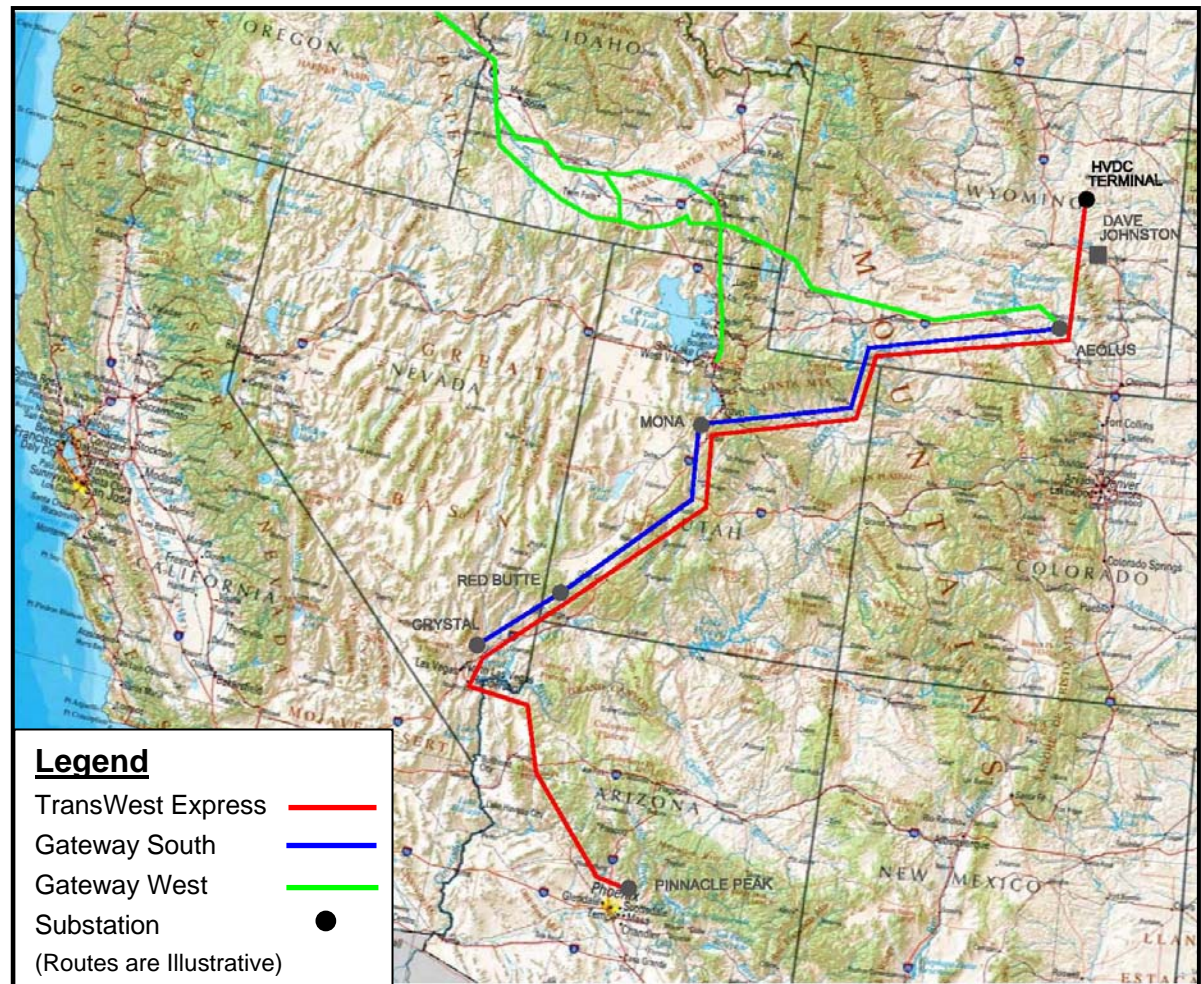


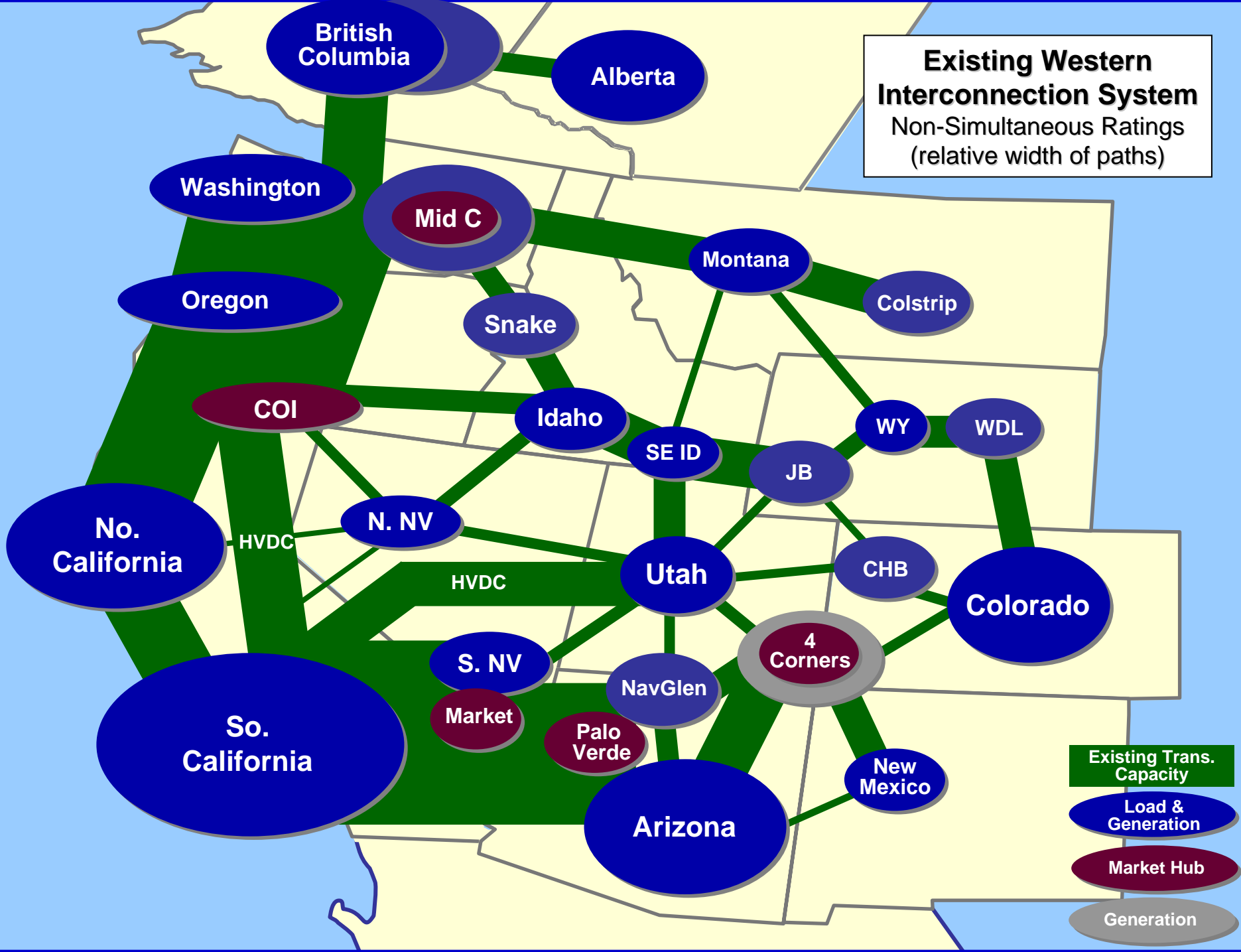
Transmission Projects

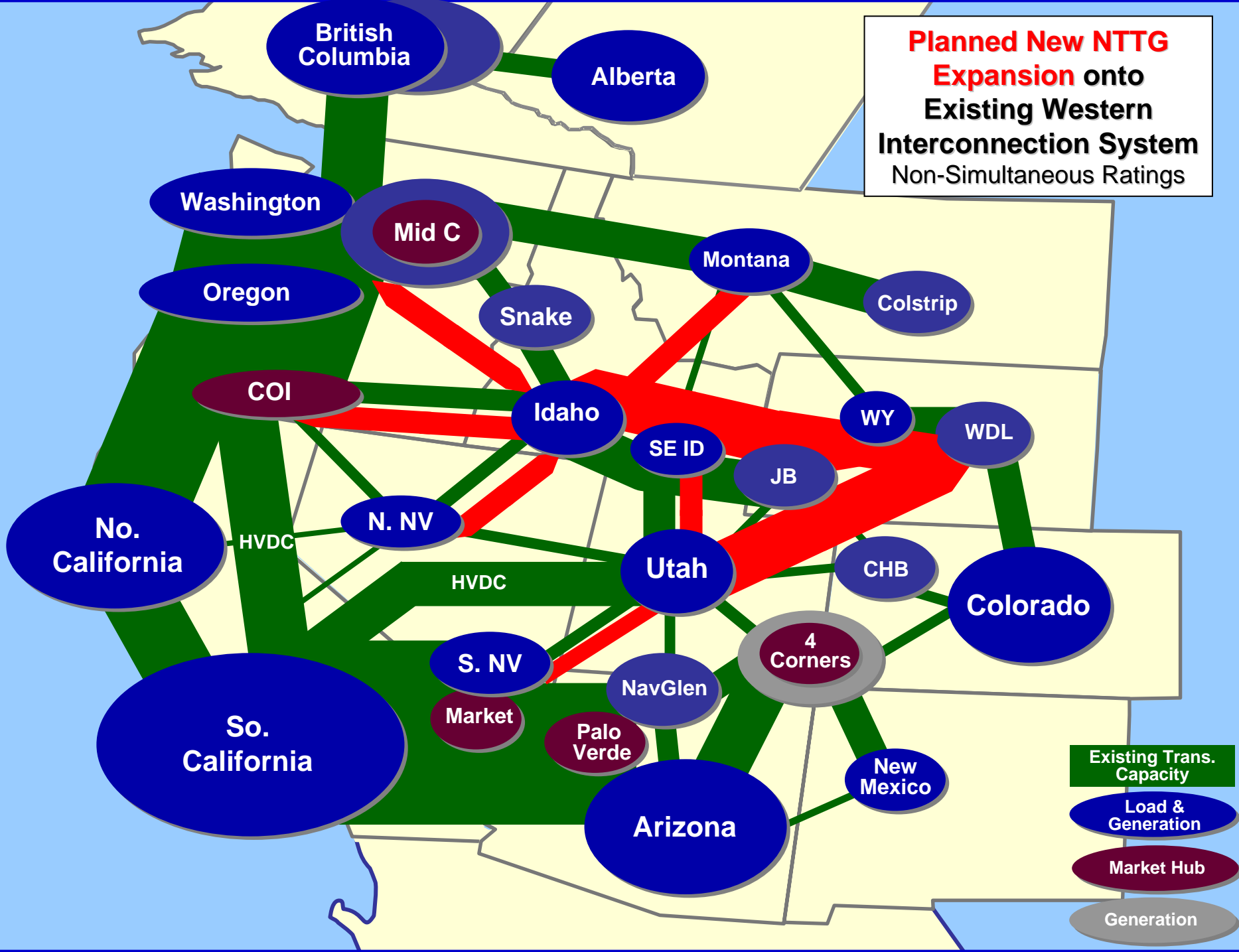


TransWest Express and Gateway South Potential Design Solutions

- ◆ Size of combined projects dependent on regional and customer needs
- ◆ Capacity options are under review from 4,500 to 7,500 MW export from WY
- ◆ DC circuit options include 3rd terminal or termination in southern Nevada









Planning Processes

- NTTG Planning Charter
 - Planning Committee
 - Biennial Transmission Plan
 - Load & Resource connections
 - Economic Studies to “test” plan



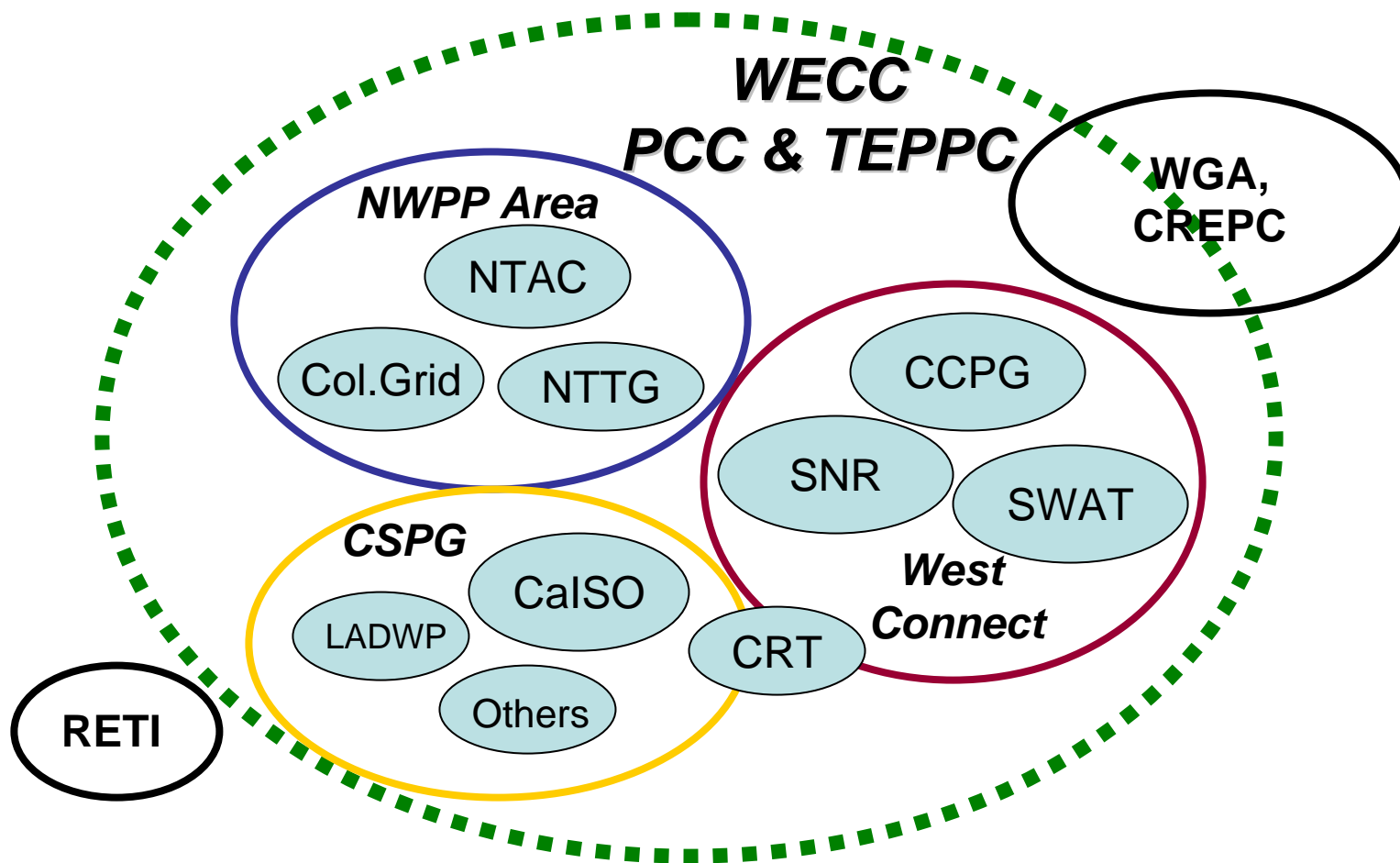
Coordination

- Sub-Regional
 - Within NTTG – Stakeholders, Sponsors
 - With other SPGs
 - Project Plans and Study Groups
- Regional
 - With other SPGs
 - WECC TEPPC and PCC
 - Project Plans and Project Rating/Implementation



Regional Coordination

Western Interconnection Transmission Planning Groups





Three Level Coordinated Planning Process

Level 1
Local

Individual TP
Local Planning Process:
Consolidated Planning
Requests , Xmssn Plan

Individual TP
Local Planning Process:
Consolidated Planning
Requests , Xmssn Plan

Individual TP
Local Planning Process:
Consolidated Planning
Requests , Xmssn Plan

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Level 2
Sub-Regional

**NTTG Sub-Regional
Planning Process**
Aggregated LR Planning Requests,
Cost Allocation Estimates,
Coordination with other Subs & Regional
Sub-Regional Plan

**Other Sub-Regional
Planning Processes**
Aggregated LR Planning Requests,
Cost Allocation Estimates,
Coordination with other Subs & Regional
Sub-Regional Plan

Level 3
Regional

**WECC TEPPC PCC,
CREPC, WGA**
Coordination, Reliability & Economic Data, Base Cases, Annual Study Plan
Economic & Congestion Studies, Policies, Standards