

WestConnect Transmission Planning & Construction Activities

NARUC Electricity Committee

Austin, TX

July 25, 2005



WestConnect MOU

- Among Transmission Owners in the Western Grid – Currently Desert Southwest and Rocky Mountain regions
- Purposes:
 - Continue investigation of feasibility of cost-effective wholesale market enhancements
 - Pursue required regulatory approvals for enhancements
 - Work cooperatively with other Western Grid Organizations and market participants
 - Address seams issues in appropriate forums, e.g. SSG-WI or successor

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Arizona Public Service

28,000 MW of Load

El Paso Electric

25,000 Miles of Transmission Line

Imperial Irrigation District

6 Million Retail Customers Served

Public Service Colorado

Public Service New Mexico

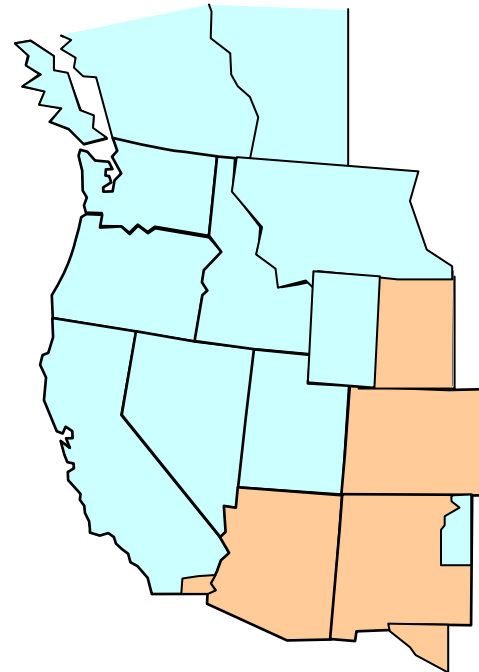
Salt River Project

Southwest Transmission Cooperative

Tri-State G & T Association

Tucson Electric Power

Western Area Power Administration



WestConnect



Others



SWAT Purpose:

Promote regional transmission planning in the Desert Southwest and Rocky Mountain areas of the Western Interconnection. The SWAT regional planning group currently includes four main subcommittees evaluating localized planning efforts.

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SWAT Principles

- **Open to all sectors of electrical industry and state regulators**
- **Forum for discussing state transmission issues and policies**
- **Collaborative planning forum for:**
 - **Data exchange/coordination for existing and proposed projects**
 - **Identifying common long range transmission needs**
 - **Technical study of alternative transmission proposals**
- **Provide a common foundation for fulfilling local jurisdictional requirements**

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Regional Planning Results

- Winchester 345/230 kV Switchyard
 - In Service
- Winchester-Apache 230 kV
 - 21 Miles
 - In Service
- Palo Verde-Rudd 500 kV
 - 37 Miles
 - In Service

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Regional Planning Results

- Gateway-South 345 kV
 - Federal and State Siting Requirements Conflict
 - 65 Miles
 - In service 200?

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Regional Planning Results

- Palo Verde-Pinal West 500 kV
 - Siting Completed
 - 52 Miles
 - In service 2007
- Palo Verde-TS5 500 kV
 - Az Siting Committee Approval
 - ACC Certification Pending
 - 45 Miles
 - In service 2007

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Regional Planning Results

- Pinal West-Southeast Valley 500 kV
 - Az Siting Committee Approval
 - ACC Certification Pending
 - 100 Miles
 - In service 2007/2011
- TS5-Raceway-Pinnacle Peak 500 kV
 - Siting process not started
 - 70 Miles
 - In service 2010/2012

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Other Subregional Projects

- Gladstone (NM) – Walsenburg (CO)
230 kV
 - Siting Completed
 - 120 Miles
 - In Service 2006
- Palo Verde-Devers II 500 kV
 - California siting in progress
 - Az Siting application expected 1Q 2006
 - 280 Miles
 - In service 2009

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Other Subregional Projects

- STEP Short Term 500kV upgrades
 - Upgrades to existing facilities – no siting requirements
 - In service 2006-07
- East of River 500kV upgrades (EOR 9000+)
 - Upgrades to existing facilities – no siting requirements
 - In service 2008-09. (Must achieve owners' agreement to proceed)

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Other Subregional Projects

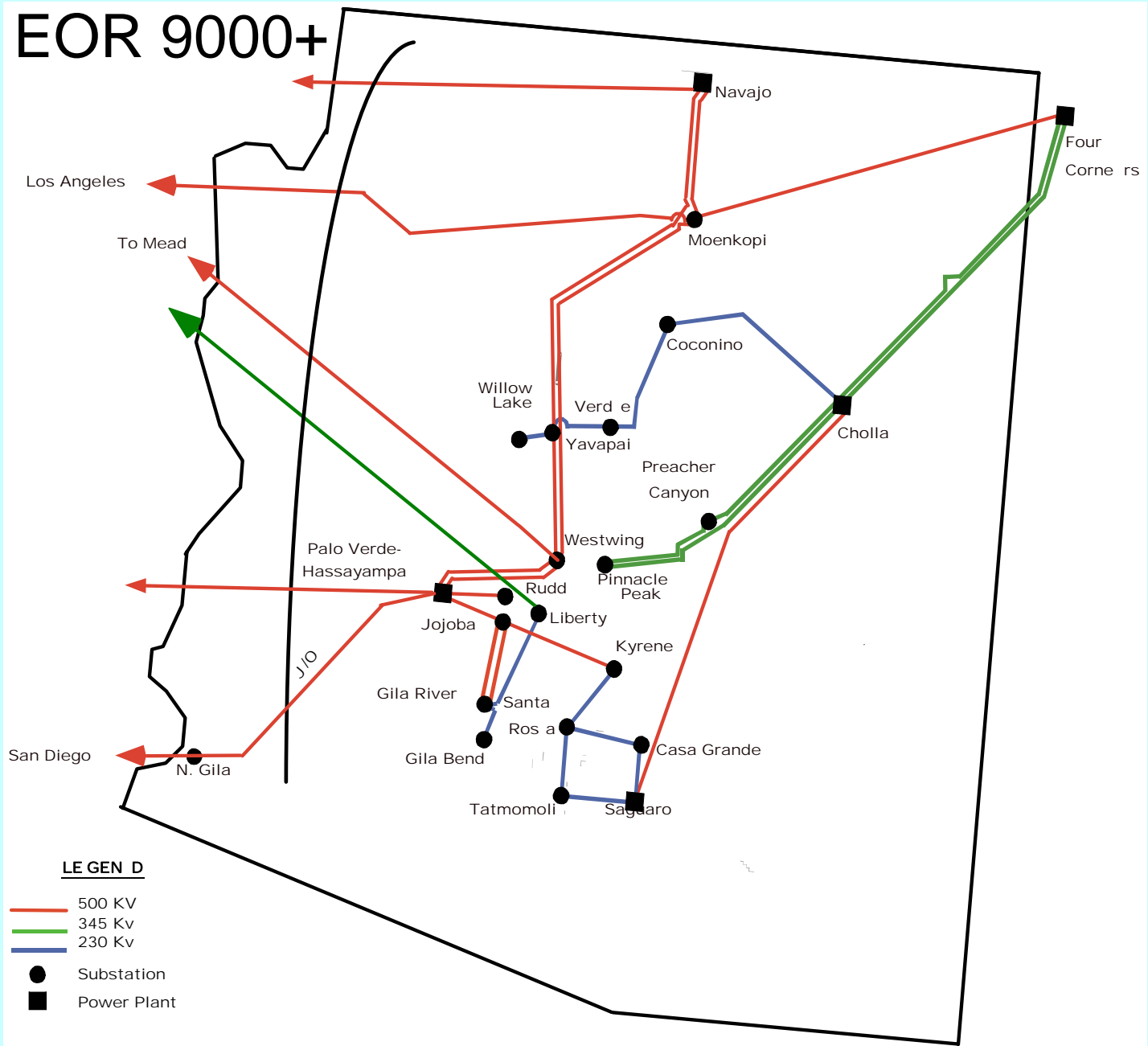
- Navajo Transmission Project
 - Right of Way Acquired
 - 440 Miles
 - In service date not committed
- Palo Verde-Yuma 500/230 kV
 - Project in conceptual stage
 - 145 Miles
 - In service 2012

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EOR 9000+



Summary

- 58 Miles of lines in service
- 232 Miles of lines permitted
- 145 Miles of lines with permits pending
- 935 Miles of lines planned or in early permitting process
- 1995 MW of planned increases in transfer capability without new line construction

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Contacts and Information

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