

# Federal Transmission Expansion in the West

DOE Tribal Leader Energy Forum:  
Transmission and Clean Energy  
Development in the West

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Sheraton Hotel, Denver, Colorado

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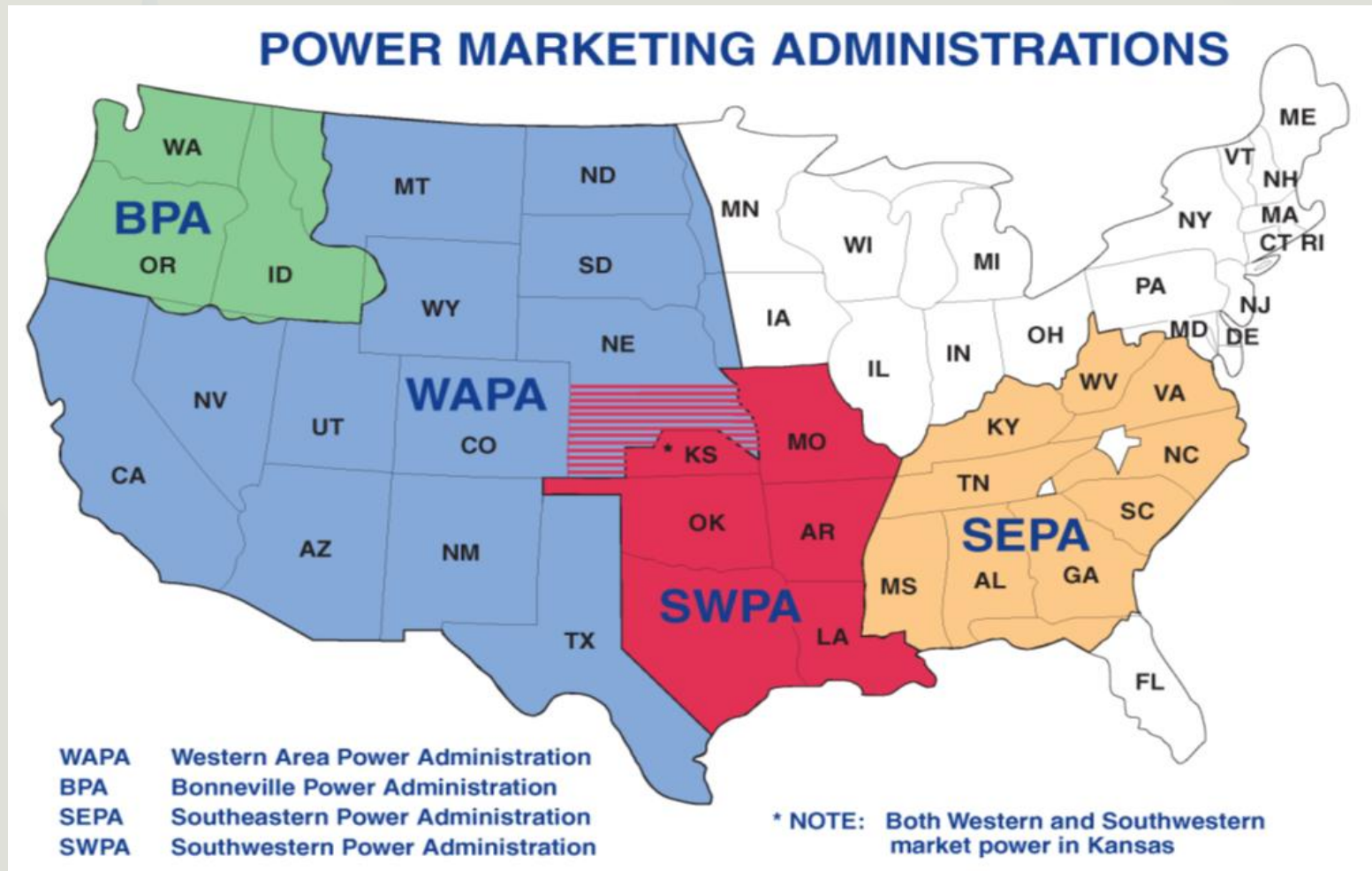
# Presentation Overview

- Overview of Western Area Power Admin.
- Western as a neighbor
- Common challenges
- Initiatives – what we're working on
- Current Projects
- On the Horizon



# Overview of Western

## ■ One of Four Dept. of Energy PMAs



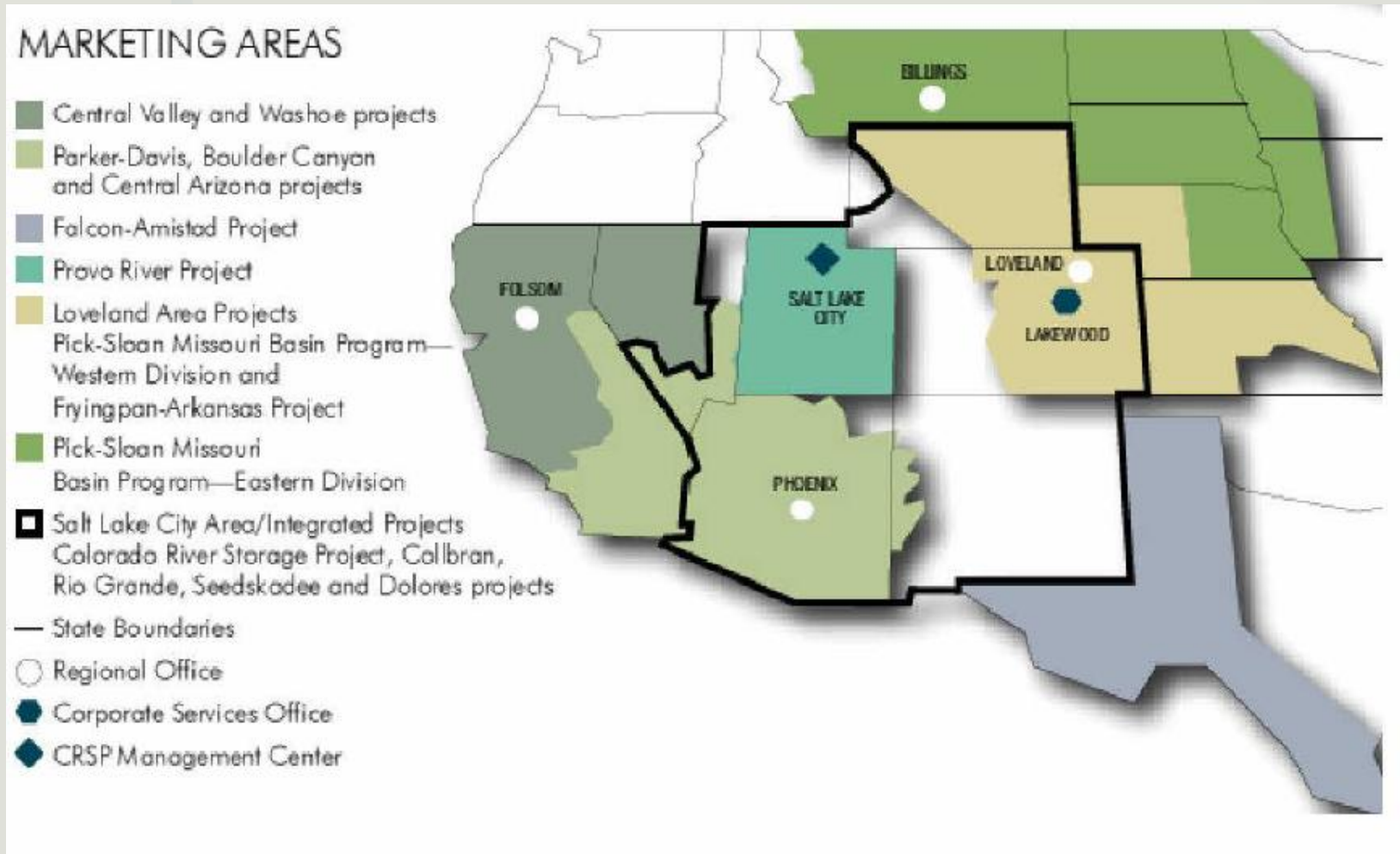
# Overview of Western

- Markets 10,479 MW from 57 Federal Hydropower Projects owned by BOR , Corps, and IB&WC to preference power entities
- 17,100 miles of high-voltage transmission line across 15-states
- About 100 tribal customers who receive around 1.2 million megawatt hours per year
  - Tribes make up 10% of Western's core power customers



# Overview of Western

## ■ Western Marketing Areas and Offices

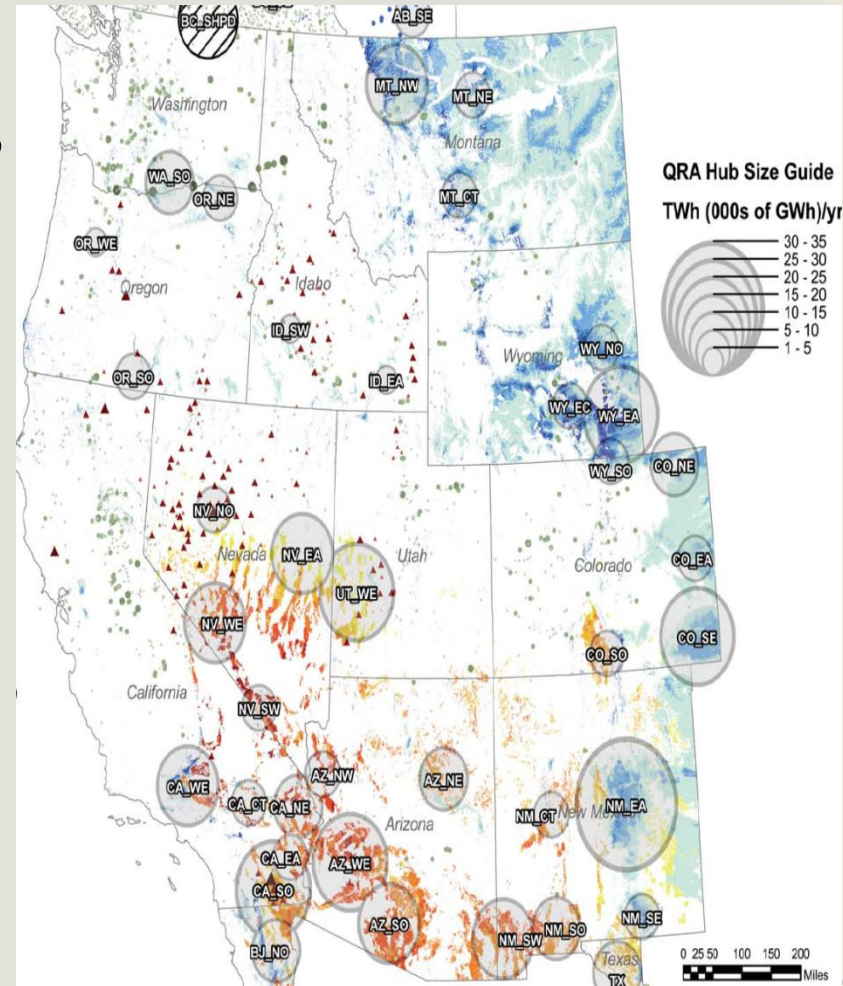


# Western as a Neighbor

- Held more than 70 public meetings and 40 tribal consultations last fiscal year
- Updated publication on conversion of on-reservation electric utilities to tribal ownership and operation
- Provided technical assistance
- Recruited and hired one tribal engineering student and plan to hire two this summer

# Common Challenges

- Developing potential renewable energy sites and moving to market
- Compliance markets saturated due to RPS
- Demand for electricity declining
- Western here to help tribes wishing to develop energy resources



Western Governors Association 2009 "Western Renewable Energy Zones"

# Initiatives

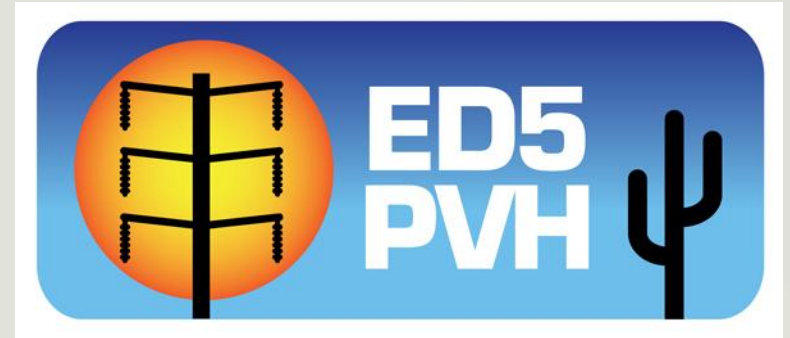
- Pre-feasibility transmission studies
- Wind/hydro study
- Reports and Publications
- Webinars and Workshops





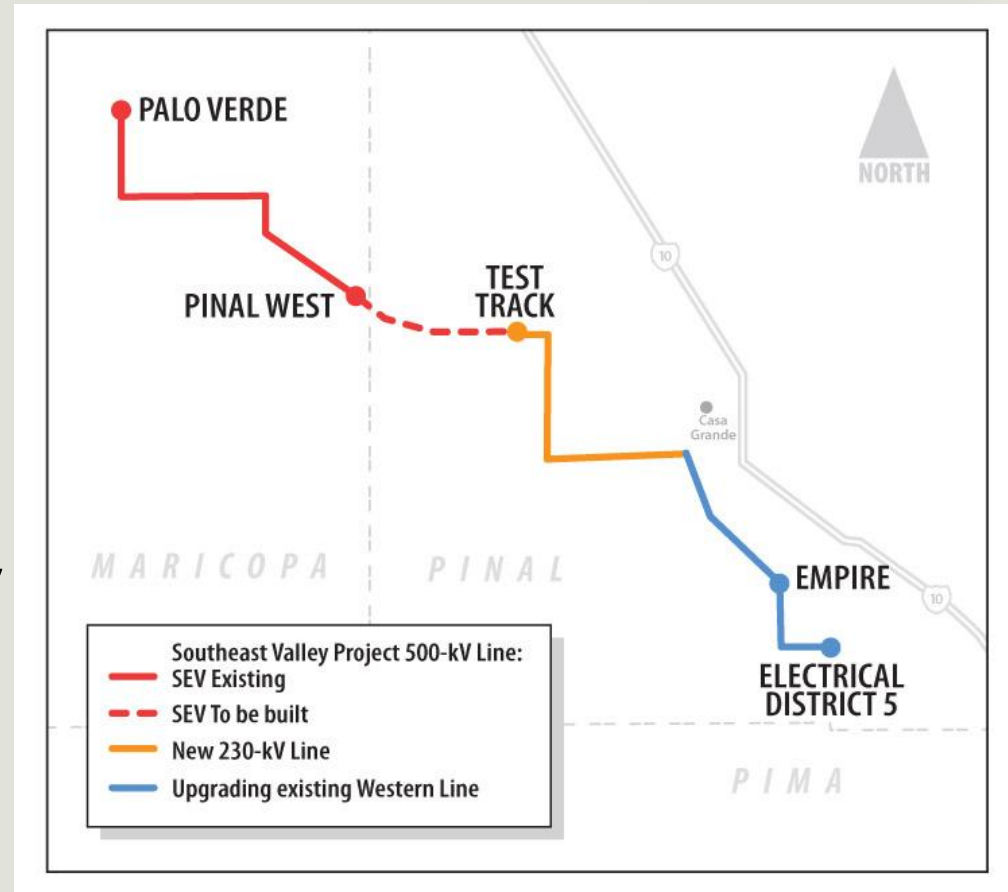
# Current projects

- ED5-Palo Verde Market Hub Project
- Montana Alberta Tie Limited Project
- TransWest Express Project
- Represents additional opportunity to consult with tribes



# ED5-PV Market Hub Project

- \$82.9 million--Estimated Project Cost
- Project 109 miles in length:
  - 64 miles of 500-kV purchased capacity
  - 45 miles of new construction/upgraded facilities
- 254 MW Additional Capacity
- Project includes 4 line segments and 3 substations



# Montana Alberta Tie Limited Project

- \$161 million borrowed through TIP
- \$306 million project cost
- 214 mile long, 230 KV, supports 300 MW



# TransWest Express Project

- Up to \$25 million borrowed through TIP
- \$50 million development phase
- 725 miles long
- 600 KV HVDC
- 3,000 MW capacity



Picture from Transwest Project Website

# On the Horizon

- Partner with EPA and GSA
- Peer match purchasers with tribal projects
- More transmission projects

