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# ***Renewable Resources: Supporting Customer Energy Choices***

## ***DOE Tribal Energy Program Review***

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Western Area Power Administration

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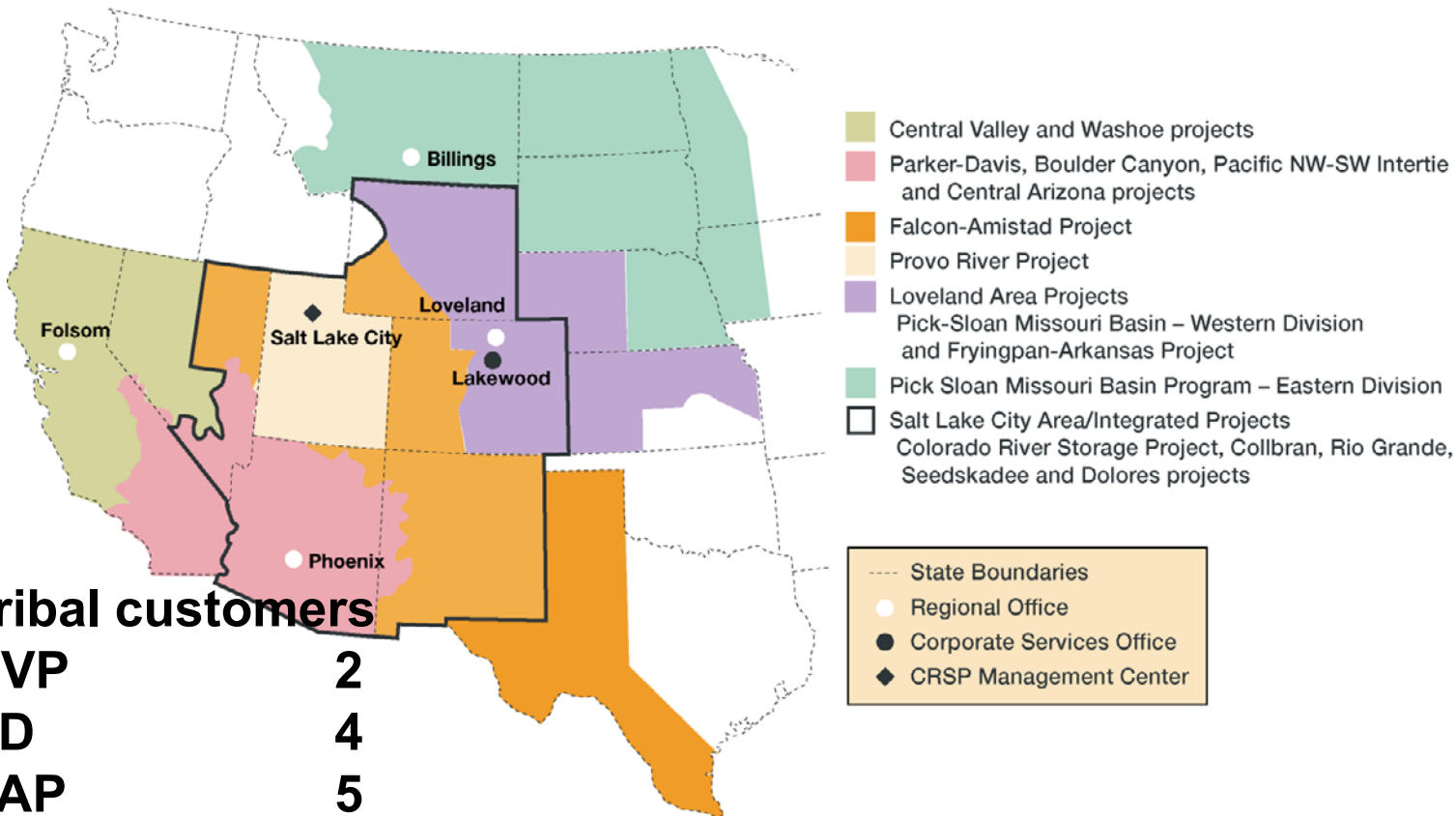
# *Western overview*

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- Markets 10,000 MW of hydropower
- 15 states
- 671 wholesale power customers
  - 87 tribes
- Marketing plans, rates are project-specific
- Power rates are cost-based and lower than other generation sources
- No load growth responsibility—but we purchase energy to firm up hydro contractual commitments

# Western's Service Territory

## Project Marketing Areas



### Tribal customers

CVP	2
PD	4
LAP	5
P-S	28
SLCA/IP	54



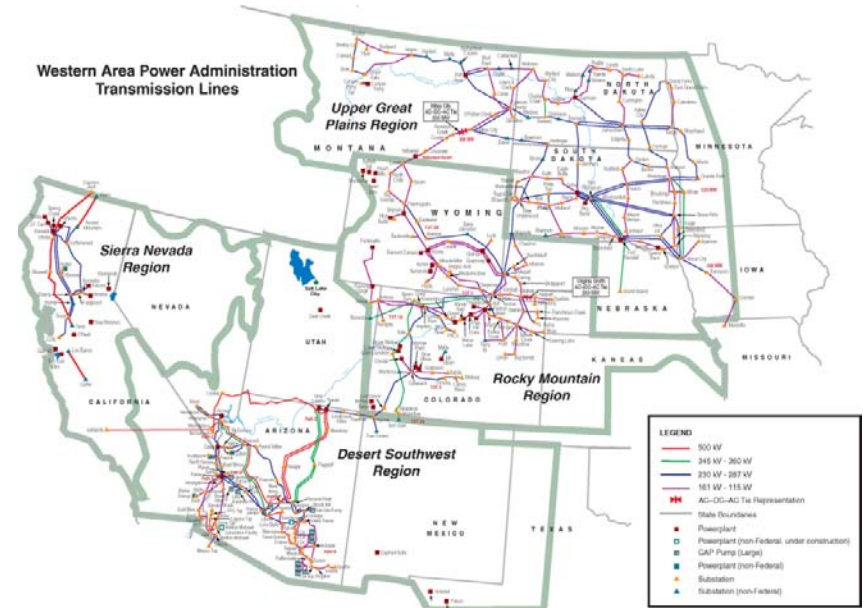
# *Services for Tribes*

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- Power customers
  - LAP, P-S resource pool allocations
- Transmission service
- Rights of way
- Renewable energy
  - Tribal energy development
- Energy Services
  - Tribal wind equipment loans

# Transmission Overview

- 17,000+ miles of transmission
- \$201 M transmission revenue
- 300 substations
- 444 comm sites
- 3 balancing authorities/4 primary, 4 back-up control centers
- \$ 1 B annual revenue



# *Open Transmission Access*

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- Always had open access
- Open Access Transmission Tariff adopted voluntarily
- OATT amended to incorporate large generator procedures, small generator procedures, wind interconnection technical standards

# Western and Renewables

- Primary goal: Assist customers in meeting their needs
- DOE partnership/Tribal support
- REC purchases
- Use IRP for long-term purchases
- Study participant
- 300+ MW wind interconnected
- 69 wind interconnection requests/14,000+ MW



# *Suceses with Renewables*

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- Assist with Rosebud Sioux wind project
- ICOUP Tribal energy interest solicitation
- Promote customer renewables
- 496,000 MWh of RECs in 2007
- WGA energy initiatives
- ES Website: [www.wapa.gov/es](http://www.wapa.gov/es)
- REpartners: [www.repartners.org](http://www.repartners.org)
  - Technology transfer workshops
  - Webinars





# *Renewables for Federal Agencies*

- Western acts as agent for other Federal agencies in acquiring renewable energy and certificates/green tags
  - Annual call to agencies (spring), RFP for RECs (summer)
- EPA, DOE, Air Force, Army
- More than 439,000 MWh of tags acquired by Western in 2007
- Could help agencies meet EPA Act purchase goals



# ***EPA Act 2005: Sections 503 and 2605***

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- Tribal power allocation study
  - to study use of PMA power and barriers
  - recommend ways to improve hydropower delivery
- Report delivered to Congress in 2007
  - Summarizes PMA-specific actions taken to reduce barriers
  - Identifies tribal allocations

# ***EPA Act 2005: Section 2606***

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- Study on the feasibility of a demonstration project to supply tribal wind to firm Missouri River hydro
- Analysis of costs, benefits including energy security
- Joint study by Energy, Corps and Interior
- Draft report expected to be available for public comment end of 2008

# ***EPA Act 2005: Section 203***

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- No national portfolio standard enacted
- Federal Purchase Requirement “to the extent economically feasible and technically practicable” of escalating renewable energy amounts (3-7.5%, starting 2007)
- Double credit for renewables produced on Indian land and used at Federal facility
- Could influence transmission needs

# *Key learnings*

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- Improved ability to work with developers
- Staff better understand tariff, interconnection issues
- Continuing partnerships with customers, trade associations, DOE, industry, states, others

# *Renewable Initiatives*

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- Potential initiatives identified
- Continuing conversation about Western's role
- Agency prioritization completed; incorporated into Western's strategic plan
- Adequate resources needed
- Goal: No adverse impact on existing customers

# *Current initiatives*

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- UGP programmatic wind EIS
- UGP Tribal wind study
- NPA wind study
- Wind Interconnection Workshop, Webinars
- Tribal lands transmission availability study
- WGA REZ
- 1222 Solicitations of Interest

# ***UGP Wind PEIS***

- Joint project with FWS, RUS cooperating
- Scoping ended Nov. 10, 2008
- Western's UGP service territory
  - IA, MN, MT, NE, ND, SD
- Address “generic” impacts, concerns
- Ongoing government-to-government tribal consultation
- Project info:

<http://plainswindeis.anl.gov>





# ***EPAAct 2005: Section 1222***

- Western authorized to upgrade or construct new transmission facilities if:
  - In a national interest electric corridor
  - Congestion is reduced
  - Necessary to meet increased demand
  - No duplication of existing or proposed facilities
- Third party financing allowed, but capped at \$100,000,000 through 2013
- Complementary to existing construction authority
- Solicitation of Interest planned

# *Ongoing Renewable Initiatives*

- WestConnect wind/solar study
- Consumer-owned Utility Wind Energy Integration cost-share program
- APA wind-hydro integration analysis
- Renewable data provider role for WREGIS, M-RETS
- Wind interconnection workshop, Jan 21-23
  - Some support available for interested tribes
  - Contact Randy Manion, 720-962-7423, [manion@wapa.gov](mailto:manion@wapa.gov)



# *Key Areas of Future Focus*

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- Alleviate transmission congestion
- Integrate wind into the grid
- Expand partnership with Native American tribes to foster economic development

# *Actions within existing authority*

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- Adopt renewables-friendly transmission services: **In progress**
- Conduct project-specific wind-hydro integration studies: **In progress**
- Expand our role in acquiring renewable resources/green tags: **In progress**
- Identify existing and planned tribal generation for purchase or marketing by Western: **In progress**

# ***Actions: Existing Authority***

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- Be flexible in allowing use of hydro allocations by tribes
- Encourage regional integrated resource planning: **In new IRP rules**
- Develop customer tools for IRP public participation: **Completed**
- Programmatic EIS on wind in Missouri River basin: **In progress**

# *Possible Actions with New Authority*

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- Construction of transmission for delivery of renewables: Reid legislation proposed; AWEA white paper, etc.
- Nonreimbursable funding for purchase of firming energy priced above market
- Renewables revolving fund
- Renewable Energy Fund