



Regional Transmission

House Interim Committee on Climate, Energy and Environment

Megan Decker, PUC Chair Nov 6, 2023



Oregonians face increased costs to serve growing electricity loads reliably, reduce emissions, and adapt to climate change.

The PUC is active in promoting well-designed regional coordination to lower costs for consumers.

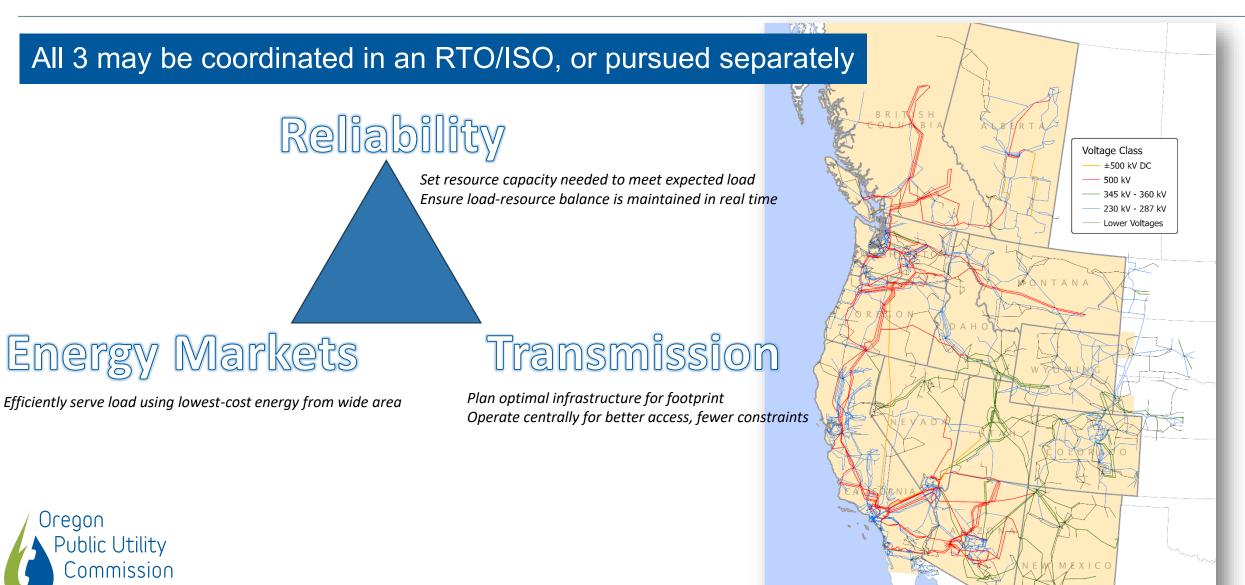


Economic regulator of investor-owned utilities. Three-member Commission uses transparent, inclusive process to reach decisions in rate cases, rulemakings, and policy implementation dockets, with support from expert staff.

Our mission is to ensure Oregonians have access to safe, reliable and fairly priced utility services that advance state policy and promote the public interest.

Our vision is to improve the lives of Oregonians through effective utility regulation and <u>leadership in the utility</u> <u>sector</u>.

COORDINATING ELECTRICITY SYSTEMS



ACTIVE FORUMS FOR WESTERN COORDINATION

High level of activity and momentum toward coordination in all 3 areas, plus action to develop a pathway to independent, west-wide governance.

Reliability

Western Resource
 Adequacy Program WPP

Energy Markets

- Broad participation in Western EIM
- Advancing dayahead markets (CAISO EDAM and SPP Markets+)

Transmission

- CREPC's Western
 States Transmission
 Initiative
- Western
 Transmission
 Expansion Coalition
 WPP



NEED FOR TRANSMISSION EXPANSION

Widely shared view that much more transmission will be needed

Why Does the West Need More Transmission Capacity?

Reliability threats

- Accelerated generation retirements
- Increased reliance on intermittent resources
- Extreme weather

Expectations for substantially higher electricity demand

- Flectrification
- Data centers

Accessing renewable resources to satisfy clean energy targets

DOE <u>National Transmission Needs Study</u> draft suggests substantial new transmis capacity needed in West to meet state public policy goals

WECC State of the Interconnection Report

"WECC studies show a growing risk associated with transmission availabiling particularly regarding growing resource adequacy risks."

CAISO 20-Year Transmission Outlook

o Calls for significant new additions of high voltage AC and HVDC lines

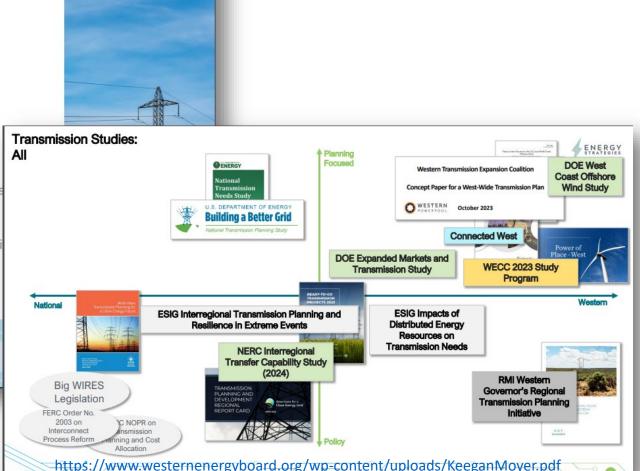


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Commission

https://gridworks.org/wp-

content/uploads/2023/07/Western-States-Transmission-

<u>Initiative-Primer_final.pdf</u>



OVERCOMING BARRIERS

Barriers to transmission expansion - the 3 P's

- Planning
- Permitting
- Paying

Planning is a threshold barrier

- High costs, high land and community impacts
- Need to have confidence it's the right transmission
 - objective analysis
 - all state policies
 - full diversity of region
- Confidence in *planning* helps overcome barriers to
 permitting and *paying*



COLLECTIVE STATE ACTION

Committee on Regional Electric Power Cooperation (CREPC)

- Goals
 - Build understanding
 - Identify actionable steps
- Recommendations for state action
 - Ongoing state working group (PUCs, EOs)
 - Study to identify high value regional projects
 - Education on sharing costs among states
- Western Transmission Expansion Coalition
 - Aligned sense of urgency to identify actionable regional transmission portfolio





For further questions, contact:

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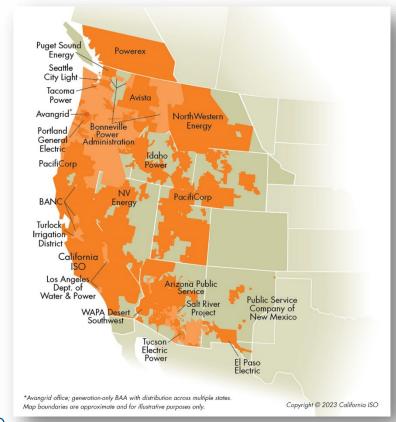
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APPENDIX and LINKS



ENERGY MARKETS

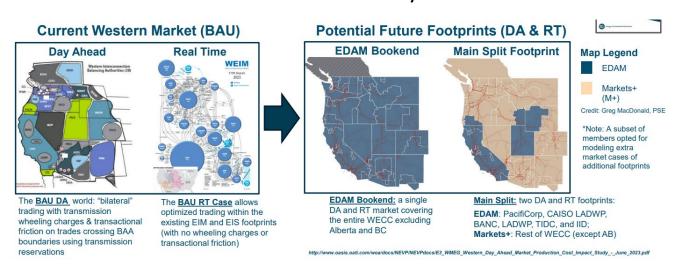
Today: CAISO Western EIM



Oregon Public Utility Commission

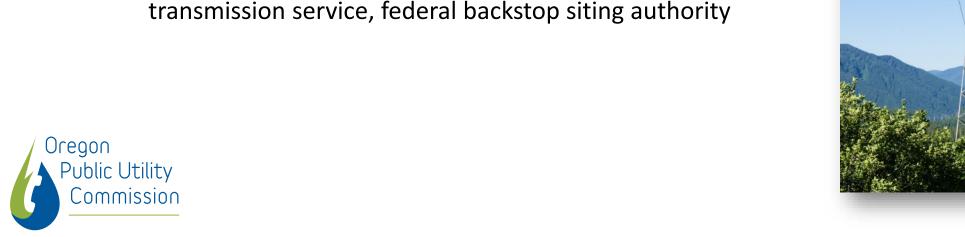
Next step: CAISO and SPP competing to attract utilities to day-ahead markets

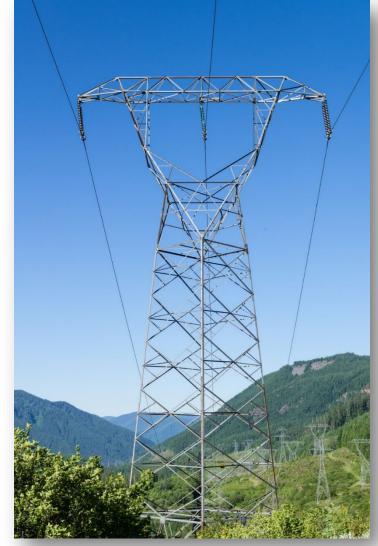
- Working groups developing design of SPP Markets+, refining CAISO EDAM
 - PacifiCorp committed to CAISO EDAM 2026 launch
 - BPA holding public workshops toward early 2024 decision
 - Joint Oregon and Washington agency letters
 - Other utilities watching, actively studying
- West-wide Governance Pathway Initiative



TRANSMISSION REGULATION

- PUC <u>Integrated Resource Plans</u>, RFPs
- ODOE <u>Permitting transmission</u>
- ODOE/PUC Regional planning (<u>NorthernGrid</u>)
- PUC <u>CPCN for eminent domain</u>
- Rate cases for transmission costs
 - PUC capital cost of utility-developed lines
 - BPA rates for service on BPA lines
 - FERC interconnection, rates and terms for all other transmission service, federal backstop siting authority





ACTIVE FORUMS FOR WESTERN COORDINATION

Energy Markets

- CAISO <u>Western Energy Imbalance Market</u>
- CAISO Extended Day-Ahead Market
- Southwest Power Pool Markets+ Day-Ahead Market
- BPA day-ahead market participation evaluation
 - Joint state agency comments to BPA 10/18/23

Transmission

- Western Power Pool <u>Western Transmission Expansion Coalition (WTEC)</u>
- Western States Transmission Initiatives recommendations

Reliability

Western Power Pool – <u>Western Resource Adequacy Program (WRAP)</u>

Governance

- West-wide Governance Pathways Initiative
 - Letter from regulators calling for West-wide market
 - Phase One straw proposal



BACKGROUND: TRANSMISSION AND MARKETS

- ODOE: Regional Transmission Organization Study (2021):
- California ISO: <u>CAISO explainer</u>
- FERC: <u>RTOs and ISOs explainer</u>
- Western Electricity Coordinating Council: <u>State of the Western</u> <u>Interconnection</u> (2023)
- Gridworks: <u>Transmission and Cost Allocation in the West</u> (2023)
- OPUC: <u>Transmission Planning Workshops</u> (2019)

