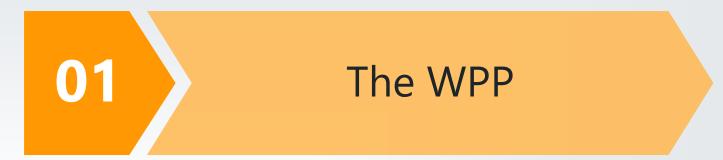


TRANSMISSION IN TRANSITION

November 6th 2023

Ryan Roy Western Power Pool Director of Operations and Technology

Setting the Stage









WPP provides a range of grid integration and coordination services to its customer-members throughout the entire Western Interconnection





Elsewhere in the US, organizations like Power Pools offer consolidated services for grid coordination.

OWPP

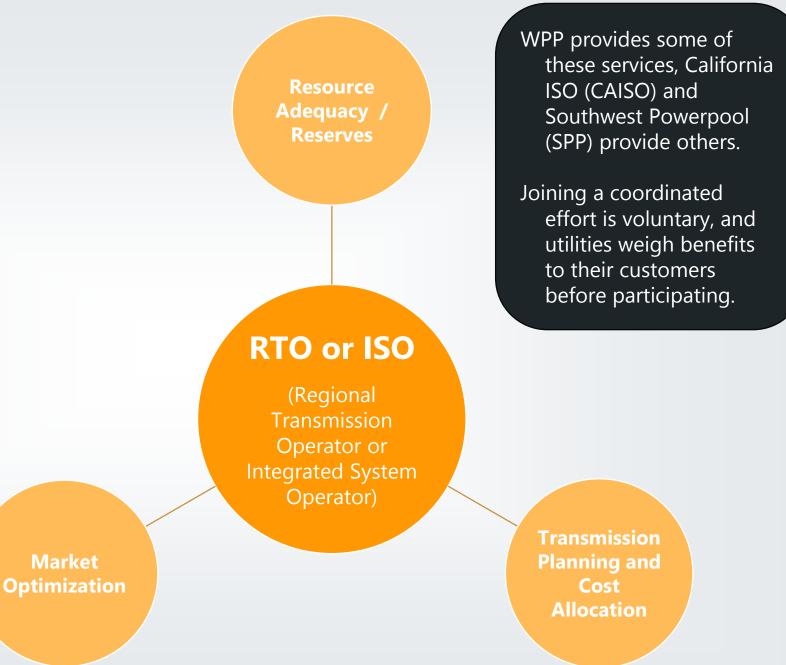


Elsewhere in the US, organizations like Power Pools offer consolidated services for grid coordination.

In the West, we're approaching these services differently – we often call it "the incremental approach."

WPP

Market



5

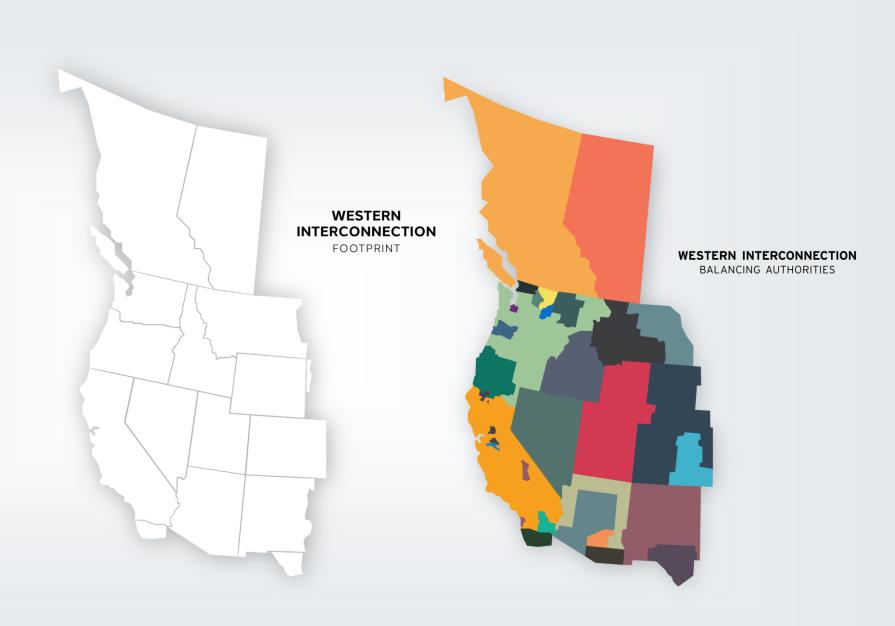
Transmission Planning in an RTO »Coordinated effort across the RTO's footprint

» Utilizes information about load and generation changes, market activity, etc. to identify transmission build-out

» Cost allocation is established for all participants joining

<u>Transmission</u>: the high-voltage wires that move bulk power from where it is produced (often across long distances) to the lower-voltage distribution wires that deliver power to consumers





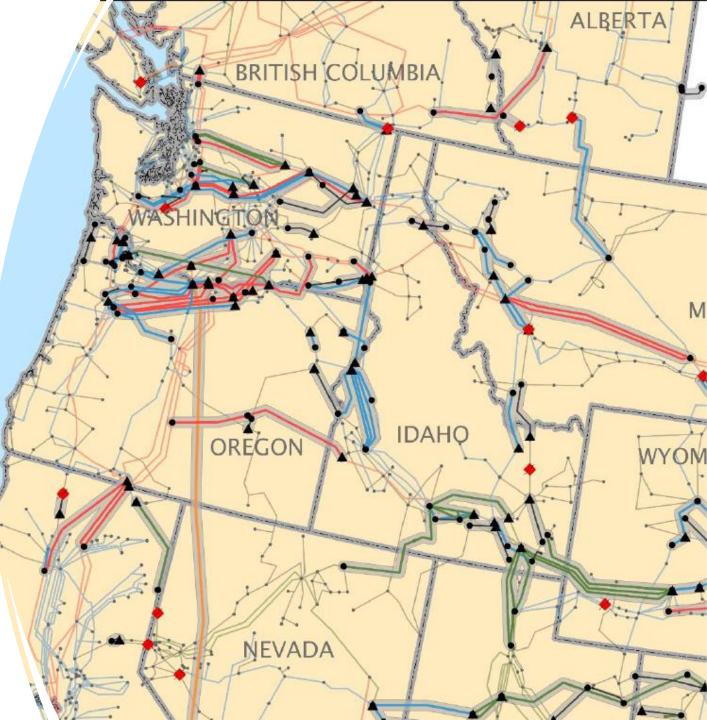
The Western Interconnect has 38 Balancing Authority Areas (BAAs).

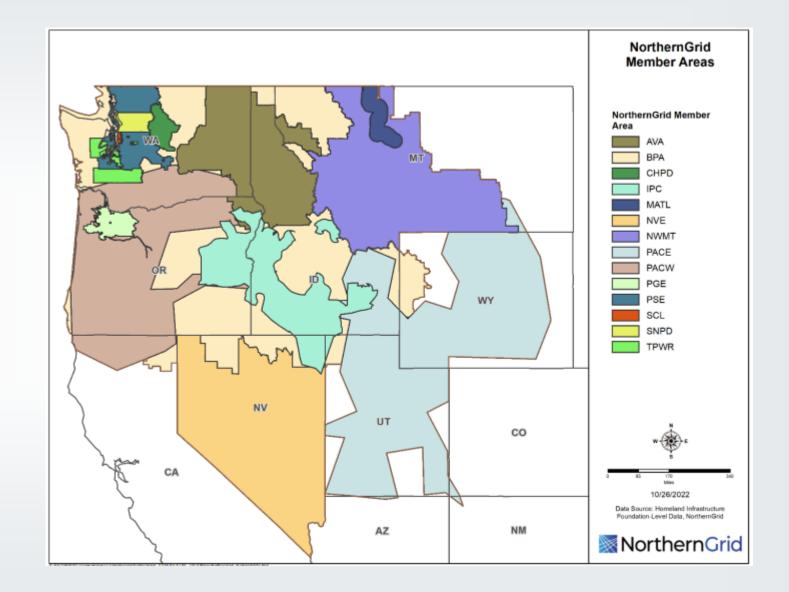
Most of these areas have different Transmission Service Providers and some have more than one.

WPP

Interconnected Northwest

- » BPA, PAC, and PGE transmission systems are highly interconnected
- » No single provider can make a comprehensive plan
- » Best value will come from collaborative transmission planning

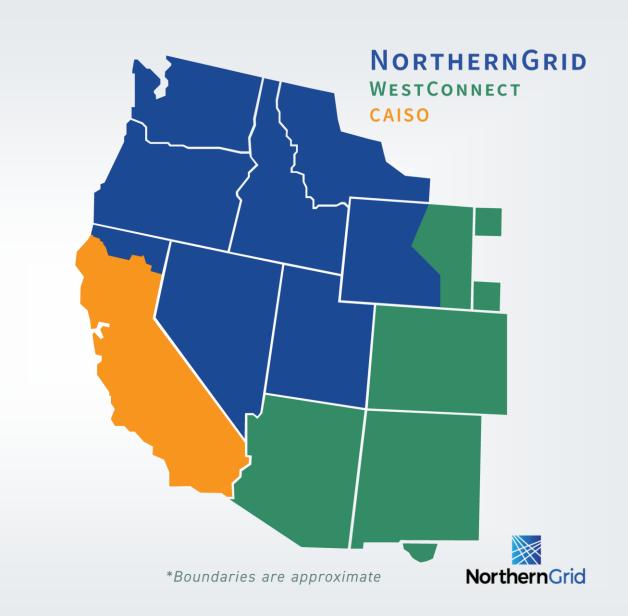




The Federal Energy Regulatory Commission (FERC) requires transmission providers to engage in regional transmission planning under the "FERC Order 1000" process.

WPP facilitates the NorthernGrid process.

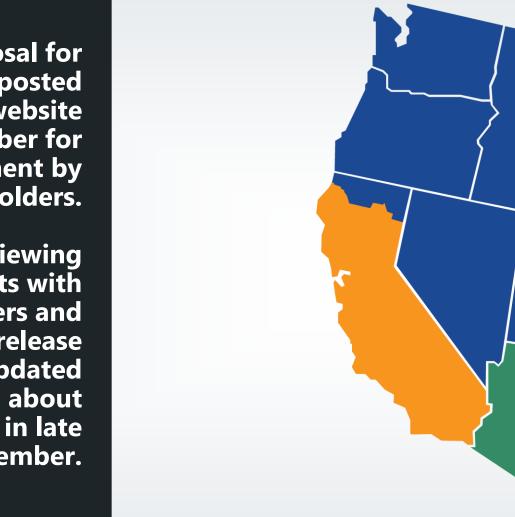
WPP



WPP is facilitating conceptual conversations about a new kind of regional planning effort called Western Transmission Expansion Coalition (WTEC).

WTEC aims to be: » Different » Expedient » Inclusive in order to arrive at actionable regional transmission studies





*Boundaries are approximate

NORTHERNGRID

NorthernGrid

WESTCONNECT

CAISO

A proposal for WTEC was posted to the WPP website in October for comment by stakeholders.

WPP is reviewing comments with stakeholders and expects to release updated information about next steps in late November.





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