# Annual WPP Member Meeting

January 24th, 2025



# Today's Agenda

» 09:00 AM Welcome & Agenda Overview

» 09:05 AM Board Introduction and Update

» 09:20 AM Corporate Year in Review

» 09:50 AM 10-Minute Break

» 10:00 AM WPP Programs Intro

» 10:05 AM Reserve Sharing Group

Western Frequency Response Sharing Group

**Operating Committee** 

**Operations Training Subcommittee** 

» 10:40 AM Coordinating Group

» 10:45 AM Western Resource Adequacy Program

» 11:30 AM Regional Transmission Planning Services

WestTEC

» 11:50 AM The Year Ahead

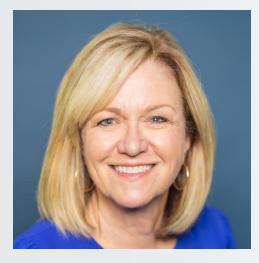
» 12:00 PM Lunch



# **Board of Directors**



# **Board of Directors: Intro**











Michelle Bertolino **Treasurer** 

Doug Howe

Bill Drummond **Chair** 

Susan Ackerman **Secretary** 

Andy Ott **Vice Chair** 



# **Board of Directors: Update**

**Composition**: Director Andy Ott's renomination was recommended by the WPP Nominating Committee, a committee comprised of individuals from WPP stakeholder sectors, and he was renominated for a three-year term in December 2024.

**Leadership**: In 2024, the WPP Board of Directors elected to keep the same officers as the prior year. The next Board officer elections will be held in December 2025.



# **Board of Directors: 2024 Focus**

**Finance**: The Board oversees all of WPP and in 2024 provided a focus on supporting Sarah Edmonds and the finance team through staffing and organizational changes.

**WRAP Oversight**: Different from other WPP programs, the Board has ultimate policy oversight of the WRAP program and in 2024 played an active role in its continued development, granting approvals for 20 Planning Reserve Margins, Business Practice Manuals, and Non-Task Force Proposals.



# **Board of Directors: Wrap Approvals**

## 1. Planning Reserve Margin (PRMs)

» Extra capacity of resources needed to handle high demand and factors like resource outages or less available power.

» Approved: 3 PRMs

### 2. Business Practice Manuals (BPMs)

» Provide guidance and details to support the execution of the Tariff's rules, requirements, and procedures.

» Approved: 15 BPMs

## 3. Non-Task Force (NTFPs)

» Suggested change to the Tariff or BPMs that may be implemented without a full Proposal by a PRC sub-committee (a Task Force).

» Approved: 1 NTFPs

## 4. Expedited Proposals (EP)

» A RAPC determined amendment to the Tariff or BPMs requiring expedited Board review due to Exigent Circumstances.

Approved: 1 EP



# **Board WRAP Approvals in 2024**

2024 Q1

2024 Q2

2024 Q3

2024 Q4

#### January 31, 2024

#### 1. PRM Approval:

• Summer 2025

#### March 7, 2024

#### 2. **BPM Approvals**:

- 104: Capacity Critical Hours
- 107: FS Deficiency Charge
- 108: FS Submittal Process
- 304: Amendments to Schedule 1 & WRAP Agreement

June 13, 2024

#### 1. PRM Approval:

• Winter 2025-2026

#### 2. BPM Approvals:

- 203: Program Sharing Calc. Inputs
- 207: Settlement Process
- 401: New Participant Onboarding
- 402: Protection of Commercially Sensitive and Confidential Information

#### September 19, 2024

#### 1. EP Approval:

• 2025-EP-1 Revised Transition Plan

#### 2. NTFP Approval:

 2024-NTFP-1: Tariff Corrections allowing BPM approvals

#### 3. BPM Approvals:

- 102: FS Reliability Metrics
- 103: FS Capacity Requirement
- 106: Qualifying Contracts
- 202: Participant Sharing Calc. Inputs
- 204: Holdback Requirement
- 205: Energy Deployment
- 209: Energy Delivery Failure Charge

#### December 12, 2024

#### 1. PRM Approval:

• Summer 2026



# Corporate Year in Review



# **WPP Leadership Team**



Rebecca Sexton

Director of

Strategic

Engagement



Ryan Roy

Chief Operating

Officer



Sarah Edmonds
President &
CEO



Eric Campbell
Chief Financial
Officer



Lisa Hardie General Counsel



# Strategic Planning Process





# 5-Year Goals & Outcomes



Be a Trusted Partner to Member Utilities



Enhance and Support Regional Reliability and Resource Adequacy



Enable Regional Transmission Planning
That Supports Reliability



Be a Trusted Source of Information for Members



# Primary Strategic Areas of Focus

 Strengthen our effectiveness as a member-driven organization

Strengthen

 Build organizational scalability to meet members' present and future needs

Build

 Effectively execute programs and services that bring significant value to our members

Execute



Moving forward, there is a significant opportunity for WPP to continue to add value to members and the Western region, setting the stage for a strong, high-value partnership in the next five years.

Questions?



# 10-Minute Break



# WPP Programs Intro



# Reserve Sharing Group

Thomas Bagnell, RSGC Chair January 24, 2025

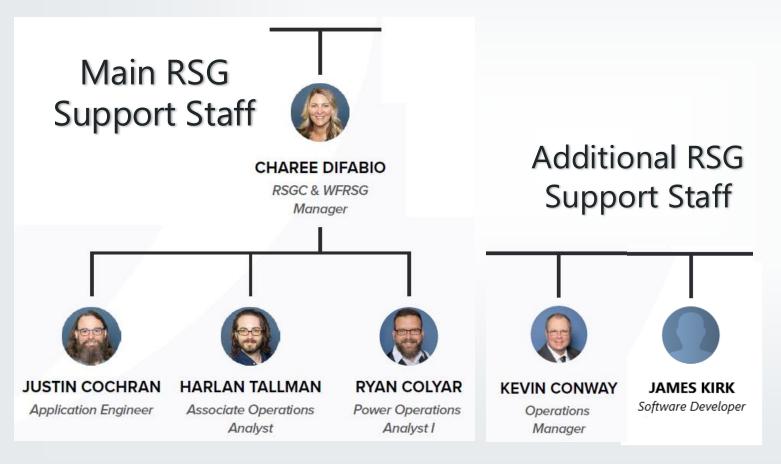


# What is a Reserve Sharing Group

- » A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply operating reserves required for each Balancing Authority's use in recovering from contingencies within the group.
- » As permitted by NERC and WECC standards, Participating Balancing Authorities within the region have instituted a Reserve Sharing Program for Contingency Reserve.
- » By sharing Contingency Reserve, participants are entitled to use not only their own "internal" reserve resources, but to call on other participants for assistance if internal reserve does not fully cover a contingency or disturbance.



# RSG Support Staff and Leadership



#### RSG Leadership



Thomas Bagnell
Operations Engineer
PSE I 425-275-2322
thomas.bagnell@pse.com

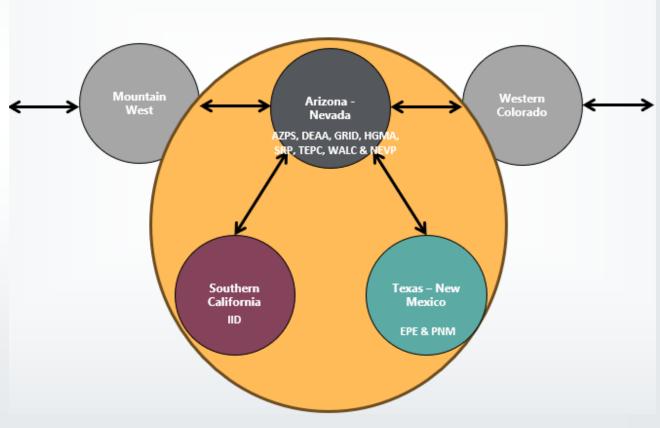


Chris McDarment
System Operations Manager
CHPD | 509-661-4682
chris.mcdarment@chelanpu...



# Membership - Newest Participants

- »Implementation was smooth with no major issues
- » Operational Learning Curves
  - » Timely requests
  - » Timely reporting
  - » Performance Expectations for ACE Recovery





# **NWPP RSG Footprint**

» Non-Reserve Sharing Group Participants:

» CAISO

» LADWP

» CENACE





# Consolidation of Balancing Authority Areas



- » Q2 2025 GWA footprint expansion with WWA resources, retirement of WWA
- » Q3/Q4 2025 GWA footprint expansion with addition of MATL
- » Q4 2025 new Battery Energy Storage System -75MW
- » Q2 2026 Begin participation in Western EIM



» WAUW and WACM consolidation into



- » SPP Western Balancing Authority Area
- » First quarter 2026



### Goals

- » Promote reliability within the Western interconnection.
- » Continue strengthening RSG Committee Representative knowledge and engagement.
- » Monitor the activities that impact the NWPP Reserve Sharing Program with regards to compliance and operations.
- » Work on the retirement of BAL-002-WECC-3 and be prepared for the changes.



# **Questions?**

WPP Email: <a href="mailto:nwpprsg@westernpowerpool.org">nwpprsg@westernpowerpool.org</a>

Thomas Bagnell, Chair <a href="mailto:Thomas.bagnell@pse.com">Thomas.bagnell@pse.com</a>





# Western Frequency Response Sharing Group

Michael Jang, WFRSG Chair January 2025



## **TALKING POINTS**

Frequency Impact WFRSG Intent WFRSG Members WFRSG Support

WFRSG Highlights WFRSG Future WFRSG Review 2024



# **Frequency Impacts**

156,000

Miles of Transmission Lines 90 MILLION

People

Living in the Western Interconnection 167,746 MW

2023 Interconnection Peak Demand WESTERN
INTERCONNECTION
AT A GLANCE

- 448 Registered Entities
- 324 Generation Owners
- 52 Transmission Operators
- 37 Balancing Authorities
- 4 Reliability Coordinators



# The Impacts Continue

299.5 GW

2023 Total Installed Capacity 809,018 GWh

2023 Total Generation 15 GW

New Resources in 2023 WESTERN
INTERCONNECTION
RESOURCES
AT A GLANCE

Over the next 10 years, entities plan to build 172 GW of new resources, more than double the generating capacity added in the last decade (73.7 GW). Approximately 85% of the new resources will be solar, wind, and battery storage."



### BAL-003-2 - Frequency Response and Frequency Bias Setting

#### A. Introduction

- Title: Frequency Response and Frequency Bias Setting
- To require sufficient Frequency Response from the Balancing Authority (BA) to maintain interconnection Frequency within predefined bounds by arresting frequency deviations and supporting frequency until the frequency is restored to its scheduled value. To provide consistent methods for measuring Frequency Response and determining the Frequency Bias Setting.
- Applicability:
  - 4.1. Functional Entities:
    - 4.1.1. Balancing Authority
- 4.1.1.1. Balancing Authority is the responsible entity unless the Balancing Authority is a member of a Frequency Response Sharing Group, in which case, the Frequency Response Sharing Group becomes the responsible entity.
  - 4.1.2. Frequency Response Sharing Group
  - Effective Date: See Implementation Plan for BAL-003-2.

#### B. Requirements and Measures

- R1. Each Frequency Response Sharing Group (FRSG) or Balancing Authority that is not a member of a FRSG shall achieve an annual Frequency Response Measure (FRM) (as calculated and reported in accordance with Attachment A) that is equal to or more negative than its Frequency Response Obligation (FRO) to ensure that sufficient Frequency Response is provided by each FRSG or BA that is not a member of a FRSG to maintain interconnection Frequency Response equal to or more negative than the Interconnection Frequency Response Obligation. [Risk Foctor: High][Time Horizon:
- M1. Each Frequency Response Sharing Group or Balancing Authority that is not a member of a Frequency Response Sharing Group shall have evidence such as dated data plus documented formula in either hardcopy or electronic format that it achieved an annual FRM (in accordance with the methods specified by the ERO in Attachment A with data from FRS Form 1 reported to the ERO as specified in Attachment A) that is equal to or more negative than its FRO to demonstrate compliance with Requirement

# **WFRSG** Intent

- » Support Federal Level Compliance - NERC Reliability Standard
- » Applicable Balancing Authority
- » Requirement Magnitude of Frequency Response



### **WFRSG Members**

















































## **WFRSG Support Staff**

#### **WFRSG Leadership**

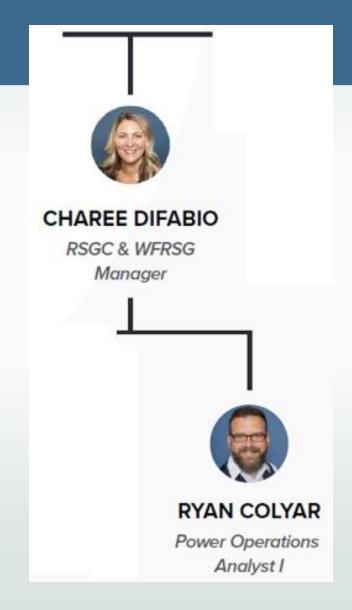


#### Michael Jang

Chief Dispatcher Generat... SCL | 206-471-0335 michael.jang@seattle.gov



Wei Shao BANC | 916-732-6885 wei.shao@smud.org



# Technical Support Staff

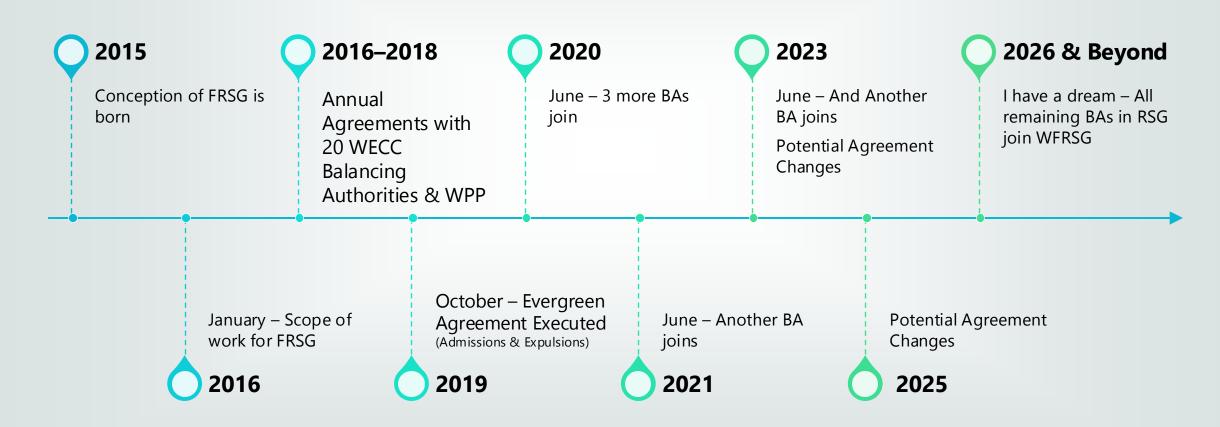


#### **KEVIN CONWAY**

Operations Manager



# WFRSG Highlights





### **WRSG Future – Interested BAs**



#### IID

•Imperial Irrigation District



#### **Capital Power**

- •Arlington Valley (DEAA)
- •New Harquahala Generation Company (HGMA)



### **PNM**

• Public Service of New Mexico



## Others

•APS, GRIDS, TEPC, WALC, SPP



# WFRSG Review 2024 – Operating Year

- »Year to Date WFRSG passing all events.
- »The WFRSG meets next on 3/3/2025 to finalize Operating Year 2024 compliance data.



# MIC DROP!







#### Email:

Michael Jang, WFRSG Chair Michael Jang@seattle.gov

Wei Shao, WFRSG Vice Chair Wei.Shao@smud.org

ChaRee DiFabio, WPP <a href="mailto:charee.difabio@westernpowerpool.org">charee.difabio@westernpowerpool.org</a>



# **OPERATING COMMITTEE**

January 24, 2025

Adam Labuga, Turlock Irrigation District (TID)
Operating Committee Chair



# OC has accomplishments for 2024

- » Additional members
  - » Expanding the WPP footprint across the Western Interconnection
- » Retirement of the Energy Emergency Plan
  - » Streamline and focalize efforts of WPP Staff
- » Adoption of Goals
  - » Aligns with Membership Agreement
  - » Each goal is tied to an objective to ensure measurability.
- » Improved meeting efficacy
  - » More than just informational
  - » Improved Agendas to foster engagement
- » Reinforce encouragement for Source. Training
  - » Significant benefit
- » Approval of new WPP Operating Committee Logo



## OC hopes to accomplish in 2025

- » Adoption of Charter
  - » Ensures committee members understand mission, goals, and responsibilities.
- » Minimize "information only" agendas
  - » Identify opportunities for member engagement
  - » Utilize industry expertise and knowledge.
- » Improve efficiency and abridge redundancy
  - » Agenda items and overlap across OC/OTS/RSGC
- » Continued efforts on the NERC Reliability Standards front
  - » BAL-002-WECC-3 Contingency Reserves
- » Follow-through with goals and objectives
  - » Ensures committee focus and scope is in line with the purpose of the OC.



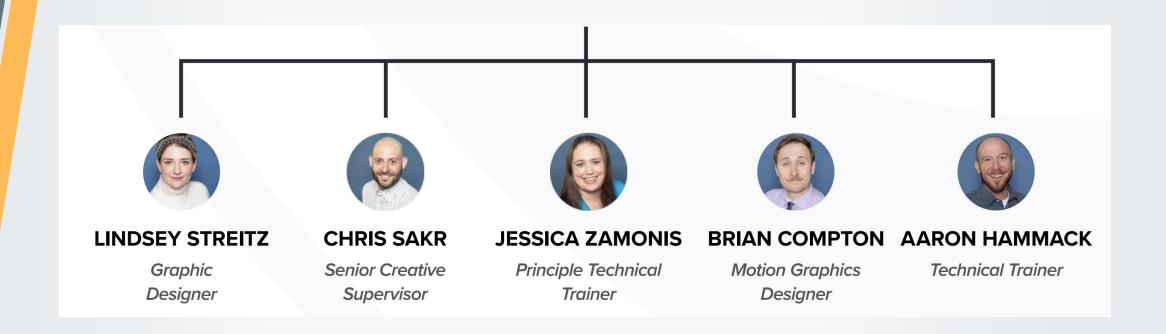




# Source.Training Overview



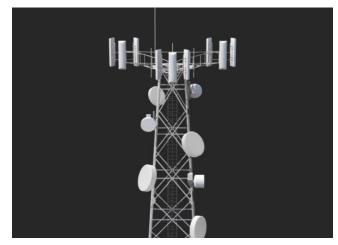
## **Training Team**





# **Subscription Updates**

- » Added L&T Limited, Pend Orielle, and United Power
- On-going talks with Colorado Springs, PG&E, SCE, first steps in reaching out to WECC, SDGE and LADWP
- Presented at the Alberta Real Time Operating Committee(ROC) meeting in December
- \$46,000 in program upgrades and capital investments paid for with subscriptions.
- Source. Training platform updates and new features being explored
- » NERC Test Prep Endeavor currently being funded by Subscriptions













#### NERC TEST PREP



PARTNERED WITH MIKE TERBRUGGEN



SIGNIFICANT TIME AND RESOURCE ARE SPENT BY OUR MEMBERS TO GET SYSTEM OPERATORS CERTIFIED AND ABLE TO WORK THE DESK



TO DATE HAS BEEN FULLY FUNDED BY THE SUBSCRIPTION PROGRAM

## 2024 Content

Reserve Sharing Essentials (2024)

Disturbance Reporting

Reserve Sharing Qualifying Events (2024)

RTA Compliance

**RSG General Overview** 

Reserve Sharing Operations

Reserve Sharing After the Fact

Real-Time Assessments

Operation Limits and Congestion Management

May 2024 GMD Event

**NERC Test Prep Exam** 

#### Multimedia Support for Key Events and Committees

- >> TPC Engineers Forum: Traveled to Seattle to film Engineers Forum capturing 4 presentations that were produced for source.training.
- » WRAP: Produced the Forward Showing informational video series.
- >>> WESTEC Produced a promotional video and currently working on a FAQ video series for WestTec, the first 3 videos in this series were just released.

\_ Eligible \_ WPP



OPS WRAP
FORWARD SHOWING &
OPERATIONS PROGRAM



OPS STAFF
LEVERAGING NEW
TECHNOLOGY FOR GRID
STABIL...



OPS
MAY 2024 GMD EVENT
DISCUSSION PODCAST

EOP (0/2)

AND



OPS
DISTURBANCE REPORTING

EOP (0/2)



LIMITS AND CONGESTION

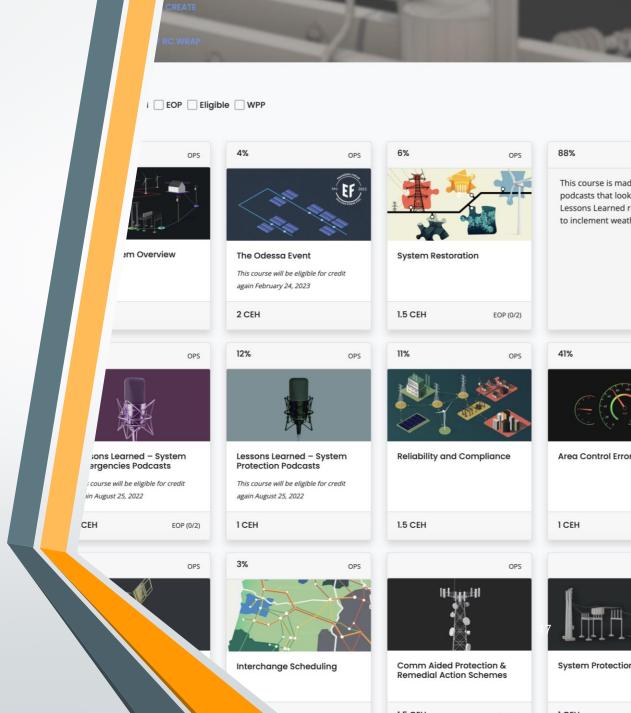


REAL-TIME ASSESSMENTS

EOP (0/2)

#### **User Comments**

- FERC\_SOC: I loved the sarcasm. I smiled several times when the instructors were delivering jokes with straight faces. I love your training material. I can honestly say, WPP online training is the best I have ever seen.
- **PSO:** As someone who is completely new to the power industry, I felt the instructors did a great job explaining the basics in a way that taught me the things I needed to know without being condescending or talking down to me. Great job! Much better than any training videos in my past career in aviation.
- **ACE**: Great analogy to driving, well done with the information covered to simplify a complicated subject. Excellent job as always! You guys do the best training courses around!
- **Blue Cut Fire Podcast**: Great analysis, these guys went into very deep detail about what is really happening with the threat of deep renewable penetration.
- >> Space Weather: My only recommendation is that you make this available to entities outside of the NWPP. I recently started with a member of the NWPP and this is by far the best course I have had in regards to Space Weather, GMDs, and GIC. Again thanks for what you all do and this was a great course.
- **Synchronization:** I have been in system operations for almost 40 years, this is some of the best material I have seen in my career.
- >> System Restoration: This is some of the best online training I have ever done. I was in nuclear training with my company before I transitioned to be an operator, so I have a great respect for high quality training. Your training is top notch. Great Job!





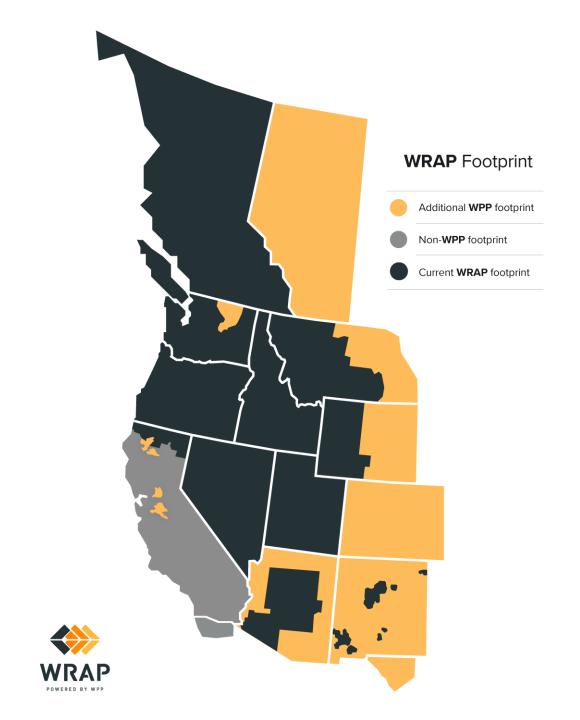
# WESTERN RESOURCE ADEQUACY PROGRAM

January 24, 2025

RA Participant Committee (RAPC) Update WPP Member Meeting

# CURRENT WRAP PARTICIPANTS

Arizona Public Service Avista Bonneville Power Administration Calpine Chelan County PUD Clatskanie PUD Eugene Water & Electric Board **Grant PUD** Idaho Power Northwestern Energy **NV** Energy PacifiCorp Portland General Electric Powerex Public Service Company of New Mexico Puget Sound Energy Salt River Project Seattle City Light Shell Energy Snohomish PUD Tacoma Power The Energy Authority





## WRAP VALUE PROPOSITION

- **» Binding forward showing** requires Participants to show they have secured their share of the regional capacity need for the upcoming season using common planning and capacity accreditation metrics
- » Binding operational program obligates Participants with surplus to assist Participants with a deficit in the hours of highest need using bilateral trading mechanisms

- ⇒ Set of common analytically derived reliability metrics
- ⇒ Leveraging load and resource diversity for reliability



#### GOVERNANCE

- » The Resource Adequacy Participant Committee (RAPC) is the main venue for Participants to engage in program governance, decision-making, implementation, and compliance
- » The sector-based **Program Review Committee (PRC)** is responsible for receiving, considering, and proposing changes to WRAP program design
- » The Committee of State Representatives (COSR) facilitates participation in the WRAP decision-making process by state regulators and energy offices
- » The **Board** (selected by a sector-based **Nominating Committee**) has ultimate authority over all aspects of the WRAP



#### PROGRAM DESIGN OVERVIEW

#### **FORWARD SHOWING**

Determine Program Capacity Requirement



Determine
Resource Capacity
Contribution



Compliance Review of Portfolio

#### **OPERATIONS PROGRAM**

FS Expectations



Operational Reality

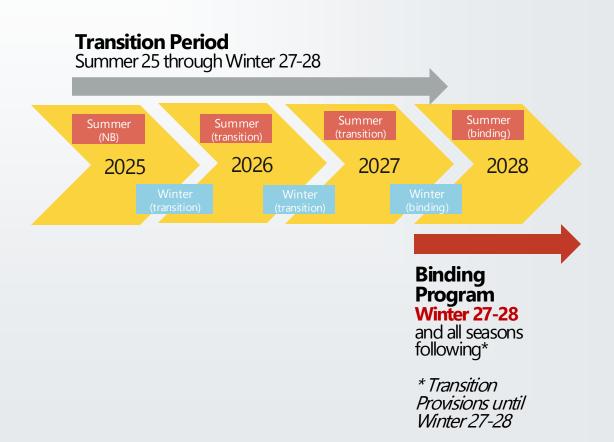


Sharing Requirement



#### REVISED TRANSITION PLAN

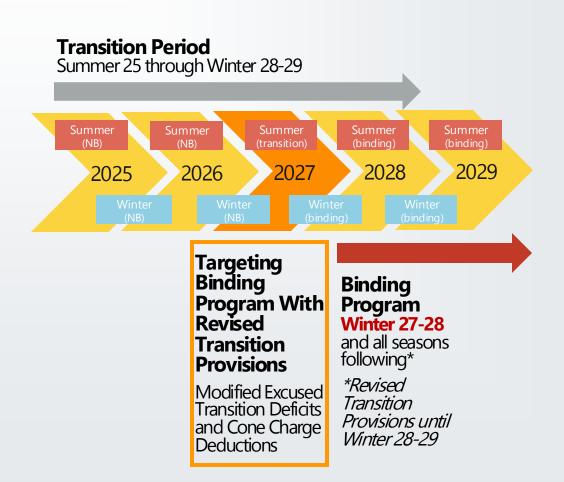
- » On April 22, the RAPC <u>published a letter to the region</u> reaffirming commitment to the program and highlighting significant developments since WRAP development began:
  - » Participants have been pursuing new resources and increasing efforts on transmission development
  - » Supply chain issues and other challenges have slowed the ability to deliver and interconnect new resources, with peak loads growing faster than ever, exacerbated by extreme weather events
- » Given the potential magnitude of deficiency charges, concern about binding in Summer 2026 instead, taking advantage of the flexibility allowed by the Tariff (§15), Participants are going to focus on pulling together a critical mass for 2027





#### REVISED TRANSITION PLAN

- » Participants developed a proposal for a revised transition plan approved by the Board on September 19<sup>th</sup>
- » The Board approved plan includes changes & additions pertaining to:
  - Summer 27 Binding Season
  - Critical Mass
  - Discounted Deficiency Charges
  - Assumptions of diversity sharing
  - Operations Program data sharing





# REVISED TRANSITION PLAN

Concept	Change/Addition				
Transition Period	Extended from June 1, 2025 through March 15, 2029				
Binding Season	<ul> <li>Deadline to select Summer 2027 as first binding season moved to January 15, 2026</li> <li>Summer 2027 LOLE modelling will include all Participants regardless of binding season</li> <li>Exit window date for Winter 27/28 remains the same (October 31, 2025)</li> </ul>				
Critical Mass	<ul> <li>If less than "Critical Mass" in subregion, Participants in that subregion may elect to be non-binding</li> <li>Thresholds to be defined in a future BPM or BPM update</li> <li>Persists beyond transition period</li> </ul>				
ETDs	<ul> <li>"Discounted Deficiency Charge" + ETDs in Summer 27, Winter 27/28 limited to 200% FSPRM MWs</li> <li>Drops to 100% FSPRM in Summer 28 and Winter 28/29</li> </ul>				
Diversity Sharing	<ul> <li>PRM calculation includes 500 MW of diversity sharing between subregions</li> <li>Benefitting NW in Winter, SW in Summer</li> <li>Limited to WRAP Regional LOLE Study Result PRM</li> <li>Applies for transition period, reevaluation no later than 2030</li> </ul>				
Operations Program Data	Participants to provide disaggregated data to Operations program <ul> <li>Aiming for plan and timeline by end of 2024</li> </ul>				

#### WRAP GOVERNANCE UPDATE

Two updates to the WRAP Tariff via the defined change control process

- » 2024-EP-1 aka Revised Transition Plan (comments August-September 2024)
  - Seeking a critical mass of binding participation by extending Transition Period provisions while making
     Winter 27/28 the first binding season for all (with option of going binding earlier: Summer 27)
  - Filed with FERC: effective date of March 16th 2025, if approved on January 27<sup>th</sup>
- » 2024-NTFP-1 (comments received June-July 2024)
  - Provided corrections to the Tariff to align with intended policy
  - Some BPMs written assuming approval of NTFP-1 and will be effective after FERC approval
  - Filed with FERC: effective date of March 16th 2025, if approved on January 27th



### FORWARD SHOWING IN 2024

- » Performed the Winter 2024-2025 Forward Showing in March 2024 in excel workbooks
- » In September 2024, transitioned to new online data submission tool (called EDST) for Summer 2025 Forward Showing
  - > **Training**: 16 hours delivered to all Participants prior to launch
  - > **Support**: 25 sessions provided for additional technical support within 5 weeks
  - Custom design based on FS Workbook design while leveraging existing RA tool used by SPP
  - Key Features:
    - Automated Validations
    - Document Mapping
    - Advance Assessment Results

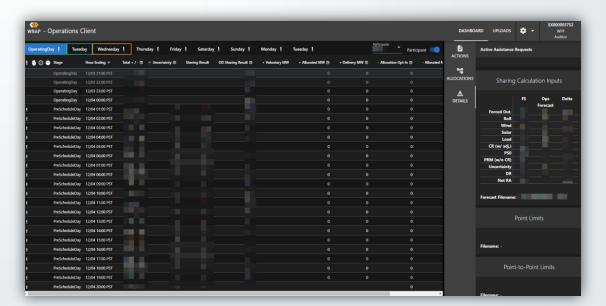
- Shared Records (Contracts)
- Historical data available
- Document Upload



#### **OPERATIONS PROGRAM IN 2024**

- » We are in the third Non-Binding Season
  - Winter 2023-2024
  - Summer 2024
  - Winter 2024-2025 (underway)
- » Improvements in 2024
  - Data platform upgrades (Ops Client)
  - Participation and data quality
  - Data performance and accuracy
  - Features: Raised Hand, Details Pane
- » WPP performed first retrospective look at a cold weather event





#### **OPERATIONS PROGRAM PARTICIPATION**

Winter 2023-2024		Dec	Jan	Feb	Mar
Number of Participants submitting at least 1 file in the month 81%		86%	86%	81%	81%
Number of Participants submitting all file types for all Preschedule days in the month*		4%	23%	32%	36%
Summer 2024			Jul	Aug	Sep
Number of Participants submitting at least 1 file in the month			91%	91%	91%
Number of Participants submitting all file types for all Preschedule days in the month*			36%	45%	77%

**WRAP** 

<sup>\*</sup> There are 6 input file types required with different submission times. The metrics reflect Participants who were able to successfully submit all 6 types of files on all Preschedule days, as required.

### **LOOKING AHEAD INTO 2025**

- » Performing Winter 2025-2026 and Summer 2026 Forward Showings
- » SPP will perform Advance Assessment for Winter 2026-2027 and Summer 2027
  - Board to approve PRMs for Winter 2026-2027 at June Board meeting and Summer 2027 at December Board meeting
- » Summer 2025 and Winter 2025-2026 Operations Program
- » Kicking off project to automate the WRAP Settlements process
- » As part of the Revised Transition Proposal, Participants committed to providing the WRAP Operations Program with increased data granularity
  - In parallel with data already being provided to the Ops Program
  - Critical to WPP and the Board's ability to confidently stand behind the functioning of the Ops Program
- » Expecting first new Participants joining the WRAP in fall 2025



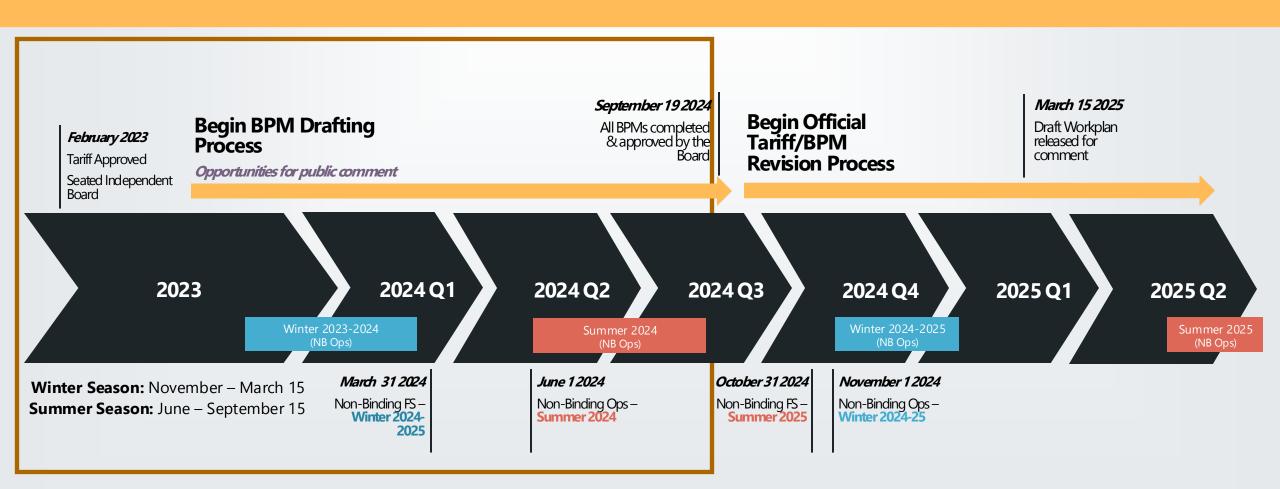


# WESTERN RESOURCE ADEQUACY PROGRAM

January 24, 2025

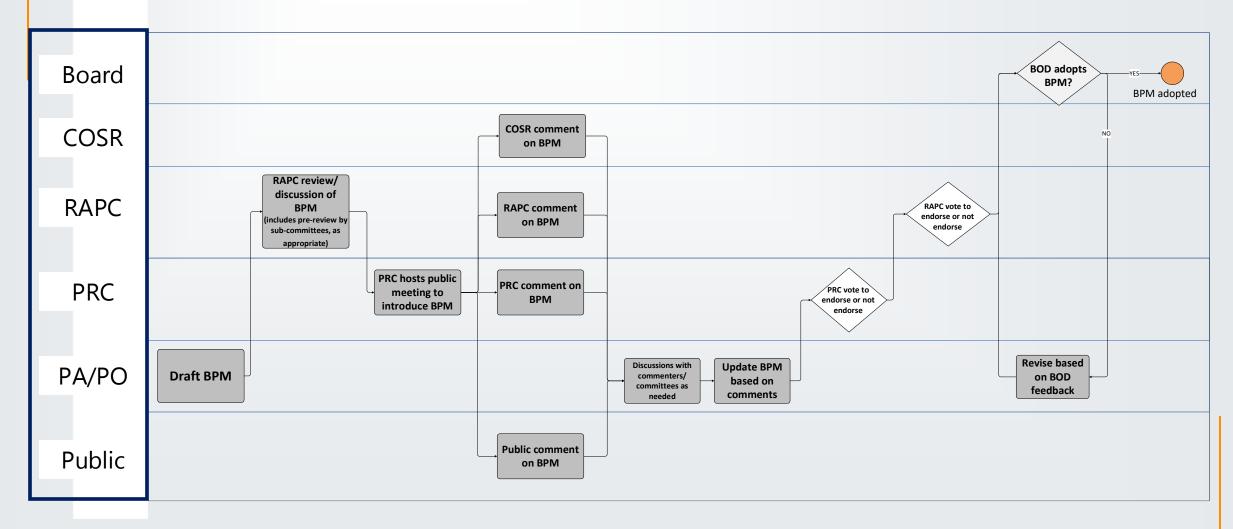
Program Review Committee Update WPP Member Meeting

### WHERE WE CAME FROM





#### **BPM Process Flowchart**





ВРМ	Topic				
101	Advance Assessment				
102	Reliability Metrics				
103	Forward Showing Capacity Requirement				
104	Capacity Critical Hours				
105	Qualifying Resource				
106	Qualifying Contracts				
107	Forward Showing Deficiency Charge				
108	Forward Showing Submission Process				
109	FS Transition Period				
201	Operations Timeline				
202	Sharing Calculations				
203	Sharing Calculations Inputs				
204	Holdback Requirement				
205	Energy Deployment				
206	Settlement Pricing				
207	Settlement Process				
209	Energy Delivery Failure Charge				
210	Operations Transition Period				
301	PRC Workplan Development				
302	PRC Proposal Development				
303	Expedited Review Process				
304	WRAPA & Schedule 1 Changes				
401	New Participants				
402	Data Release				

#### **BUSINESS PRACTICE MANUALS**

9 x Forward Showing

- 9 x Operations Program

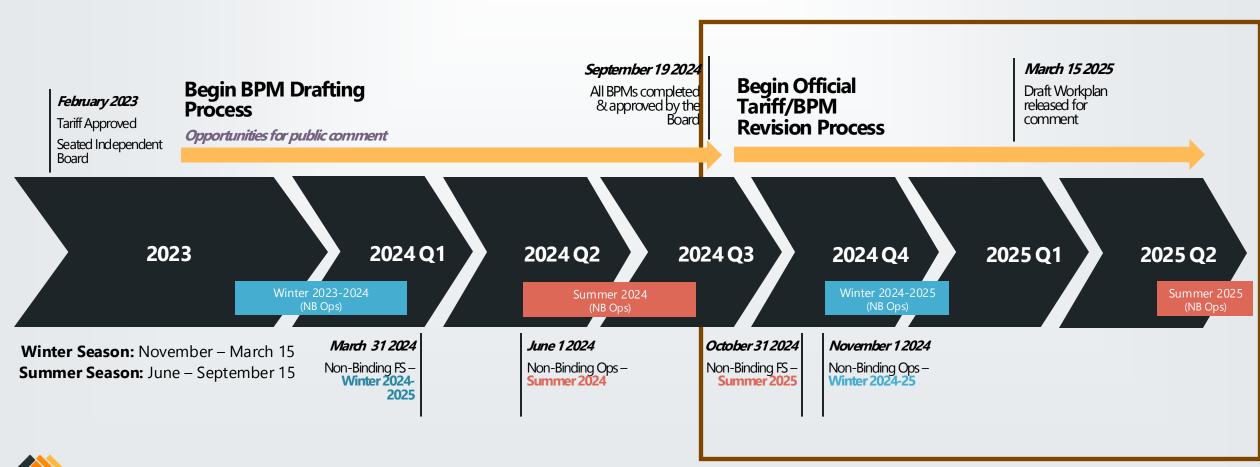
4 x Change Control

2 x Miscellaneous





#### WHERE WE ARE





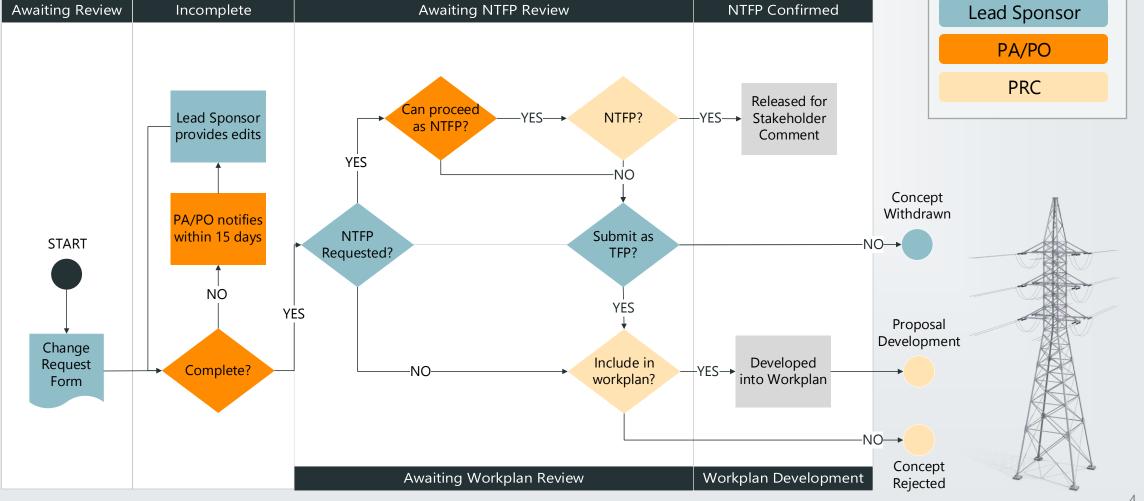
#### **CHANGE CONTROL**

- » The WRAP Change Request Portal was opened to the public on October 3rd, 2024.
  - December 31st deadline for Concepts to be considered for the 2025 Workplan
- » Participants can submit a Change Request Form (CRF) to propose a Concept or Non-Task Force Proposal (NTFP)
  - Concepts are <u>incomplete</u> Proposals that require further development by stakeholder Task Forces before they go for comment (may become part of Workplan if prioritized)
  - NTFPs are <u>complete</u> Proposals that do not require further development before comment and approval process





# WHERE WE'RE GOING - FROM CONCEPTS TO CHANGES



#### **CURRENT STATUS**

#### Received 35 Change Request Forms in 2024

- Consolidated to 22 Concepts for the PRC to prioritize (took place yesterday, January 23<sup>rd</sup>)
- Four Non-Task Force Proposals requested (plus 2024-NTFP-2 filed in 2025)
- NTFPs (\*indicates a legacy change that was identified before the change management process began)
  - \*2024-NTFP-2 (changes to BPMs due to the Revised Transition Plan): public comment
  - \*2024-NTFP-3 (Operations Program engagement for Participants in two Subregions): Sponsors discussions
  - \*2024-NTFP-4 (Load change methodology fix): COSR comment
  - 2024-NTFP-5 (Energy Delivery Failure Charge definitions): Post public comment Lead Sponsor discussions
  - 2024-CRF-22 (Demand Response as Contingency Reserve): Working with Lead Sponsor on Proposal
  - 2023-CRF-23 (Variable Energy Resource Operational Testing Requirement): Working with Lead Sponsor

#### PRC Prioritization Exercise

Took place yesterday, January 23<sup>rd</sup>, 2025

#### Next Steps

Workplan Development: determining how many and which Concepts

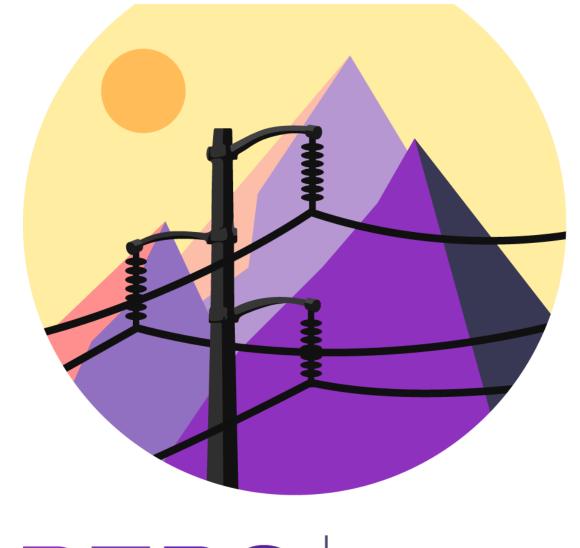
will be developed by Task Forces into Proposals ready for comment



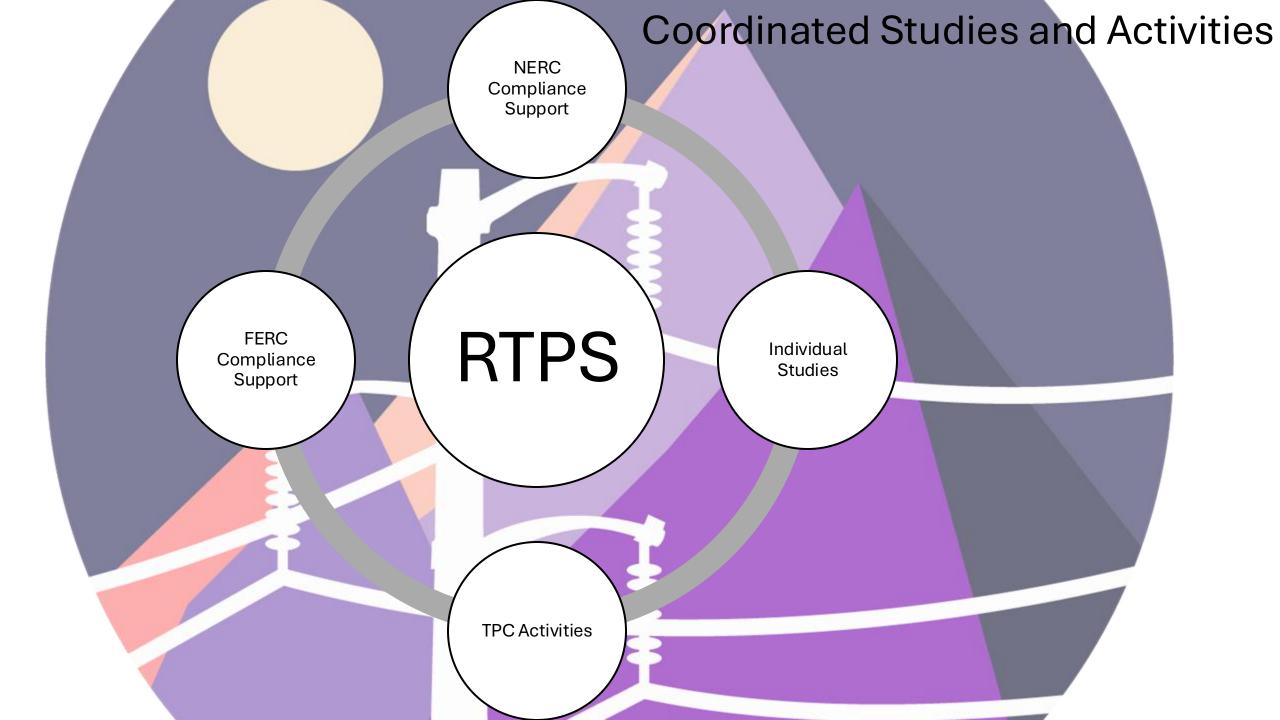
WPP Annual Members Meeting Jan 24, 2025

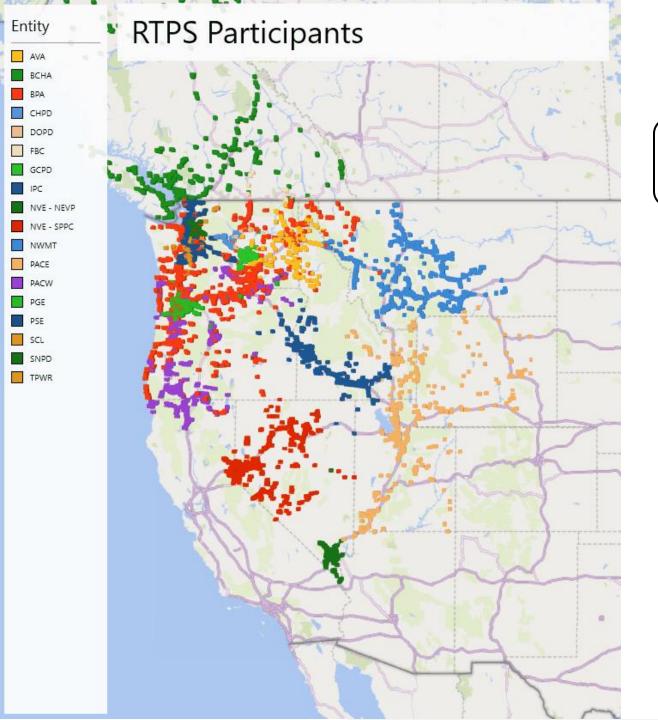
Regional Transmission Planning Services





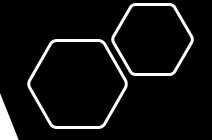






RTPS Interfaces with:
19 Member Companies
113 Member Employees

\*Numbers Exclude NOPSG



Effort	NERC Compliance	FERC Compliance	TPC Activities	Individual Studies
RTPS Participants	X	Х	Х	Х
TPC Members			X	
TPL-007 GMD Study & Data	Х			
MOD-033 Model Validation Study	X			
NorthernGrid Regional Plan		Х		
PRC-006 UFLS Data Collection	Х			
FERC 2023 Interconnection Maps		Х		
CIP-014 Critical Ifrastructure	Х			
Area 40 Base Case Coordination	Х			
South of Allston TTC Study				Х
BPA PCM Analysis				X







#### 2024 Engineers Forum Day 1 Agenda

# Inverters • Ne ed • Modeling • De velopment FERC 881 Grid Enhancing Technologies Jeopardy: TPC Knowledge

#### Upcoming in 2025

2025 Engineers Forum September, 2025 Spokane, WA



### RTPS Activities



### Ongoing

- WECC base case support
- NERC TPL-001
   Base Case
   Support
- NERC TPL-007
   Data Support
- NERC Mod-033
- NorthernGrid Facilitation

#### 2024

- 20-year base case development
- FERC 881
   Discussions
- NERC TPL-008
   Discussions
- FERC 2023 Discussions

#### 2025

- 20-year Report
- FERC 2023
   Support
- NERC CIP-014
   Support
- NERC TPL-008 Support









WECC participation

FERC 1920







Proxy Representation Protect Regional Interest Value

### FERC 1920 Requirements

20-year, Scenario-based Planning

3 plausible and diverse scenarios

With Extreme Sensitivities

7 Factor Categories for Scenario Development

7 Benefits for Evaluation

Extensive transparency and regional engagement

Development of Ex Ante Cost Allocation Method

Incorporation of Gridenhancing technologies, generation interconnection with FERC 1000, and improved interregional coordination

Regional Filing due June 2025, Interregional Filing due August 2025

FERC 1920-A

### FERC 1920 NorthernGrid Activities



Hired Slalom as Facilitator



Held 3 State Engagement meetings thus far



Coordinating with WIEB and CREPC-TC



Bi-weekly meetings with WestConnect and CAISO



# WPP Member Meeting - Western Transmission Expansion Coalition "WestTEC"

January 24, 2025

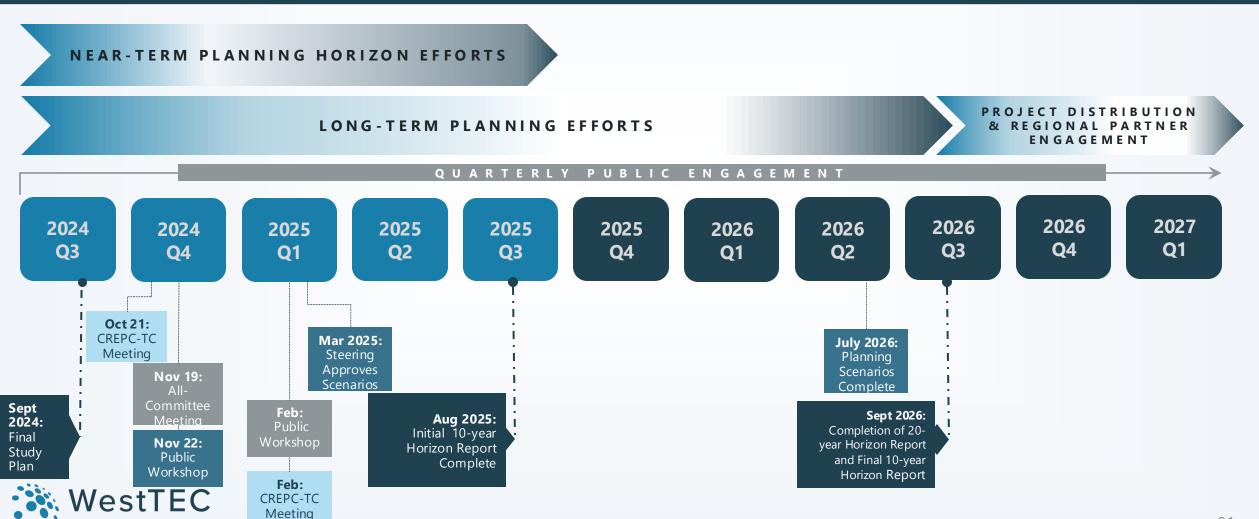
# What is the Western Transmission Expansion Coalition?

- » "WestTEC"
- » Not a FERC process
- » West-wide 20-year transmission study (10-year look)
- » Industry-led with unprecedented regional partner inclusion
- » Goal is to produce an actionable transmission study





# WestTEC Project Timeline



### **Technical Status Update**

- 1. Significant progress has been made developing the **10-year Reference Case**, which is a trendline view of 2035 that will be used to assess nearer-term interregional transmission needs and will service as the starting point for 20-year assessments
  - » This consists of forecasts for load, generation, and transmission for the 2035 study horizon
- 2. Energy Strategies and the technical taskforce have been **finalizing study methodologies** for the System Reliability Assessment
  - » The team will begin work refining other methods (e.g., Interarea Deliverability Assessment) soon
- 3. Energy Strategies and E3 have been coordinating baseline assumptions and data handoffs to support execution of 20-year assessment in 2025



### **Study Execution: Next Steps**

- 1. Complete further data collection and model calibration/testing required for 2035 assessment [November/-January]
  - » Methods will be refined January 2025
- 2. Complete Powerflow Assessment and refinement of hypothesis map [March, 2025]
- 3. Complete Congestion Assessment and refinement of hypothesis map [April 2025]





## THANK YOU!

Emily Moore, Puget Sound Energy

John Martinsen, Snohomish County PUD

Ravi Aggarwal, Bonneville Power Administration

Jennifer Galaway, Portland General Electric

Chelsea Loomis, Western Power Pool

Ben Hutchins, Western Power Pool

# The Year Ahead



# Adjourn & Lunch

