WESTERN RESOURCE ADEQUACY PROGRAM

AUGUST 19, 2021 STAKEHOLDER ADVISORY COMMITTEE MEETING



AGENDA

Status Update Detailed Design Document Content

- Governance >
 - SAC Panel on Governance >
 - PRC Set Up/SAC Transition >
- **Forward Showing Design** >
- **Operational Design** >
- **Next Steps**

Non-Binding Program Details

STATUS UPDATE

- **>>**
- **>>** provided by the NWPP"
- \rightarrow **Operator (PO) services**
 - reviews
 - auditing
 - improvement
 - **IT** Systems
- Stakeholder engagement \rightarrow
 - 30.

 - joined the SAC
 - slides

Detailed design document published, comments from SAC and region will be taken through September 15th

Re-branding from "NWPP RA program" to "Western Resource Adequacy Program

SPP selected to provide Program

Forward Showing (including data collection and validation), modeling/analytics, and compliance

Operations/real-time program operations and

Manages continual technical and processes

LIF series concluded – sign on window for non-binding stage of program Aug16-Sept

 State outreach ongoing Michele Beck, Utah Consumer advocate Transition to PRC – *will discuss more in later* PowerPool

DETAILED DESIGN DOCUMENT-OVERVIEW

- **>>**
- Provides a framework for the RA Program **>>**
- Detailed governance proposal **>>**
- Forward showing design including modeling design \rightarrow details
- Operational program design **>>**
- Published on NWPP website as: **>>** https://www.nwpp.org/news/nwpp-releasesdetailed-design-of-resource-adequacy

The Detailed Design Document will be a starting point of implementation – will not be a "final" design



DETAILED DESIGN **DOCUMENT-**CHANGES

>>

- Key changes to the doc are in the **>>** following areas:
 - Governance BOD Transition Make-up of NC (# of reps per ____ sector)
 RAPC voting
 PRC Concept
 Cost allocation
- Forward Showing **>>** Transmission/Deliverability
- Operations **>>** Updated Settlements
 Transmission/Deliverability section

» SAC received the draft version of the detailed design in July





Interim RA Program

Also called Winterim and Summerim for Winter and Summer, respectively

- The Interim RA Program began in Summer 2020 and has run in Winter 2020-2021 and Summer 2021
- Light touch program provides a matching service for short entities and long entities
- Low-cost solution until the full RA Program is stood up
- Has been successfully utilized 4 times so far this summer – already providing value to the region
- Can only be used for reliability designed to be used infrequently and only when absolutely needed for reliability





Interim RA Program

	Date of Request	Number of Requestors		MW Delivered by the Program	Remaining Shortfall
ne	6/25/2021	3	2	100	125
June	6/28/2021	1	1	50	0
>	7/28/2021	2	1	150	0
July	7/29/2021	1	1	97	0



SECTION 1 GOVERNANCE

INTRODUCTION

- **1.1 BOARD OF DIRECTORS**
- **1.2 NOMINATING COMMITTEE**
- **1.3 RA PARTICIPANT COMMITTEE**
- **1.4 PROGRAM OPERATOR**
- **1.5** INDEPENDENT EVALUATOR
- **1.6 OTHER COMMITTEES AND STRUCTURAL FUNCTIONS**
- **1.7 COST ALLOCATION PRINCIPLES**



1. GOVERNANCE NTRODUCTION 1.1 BOARD OF DIRECTORS 1.2 Nominating COMMITTEE 1.3 RA PARTICIPANT COMMITTEE 1.4 PROGRAM **OPERATOR** 1.5 INDEPENDENT EVALUATOR **1.6 OTHER COMMITTEES** AND STRUCTURAL FUNCTIONS 1.7 COST ALLOCATION PRINCIPLES ORWARD SHOWING DESIGN 3. OPERATIONAL DESIGN

PROPOSED GOVERNANCE APPROACH - OVERVIEW Independent **Board of Directors** (BOD)

- > board has authority to approve budgets; provide direction and set priorities
 - Some limitations on board authority are permissible
- > RA Program) at the Load Responsible Entity (LRE)
- Proposed governance preserves structures and functions of exiting > NWPP program

Participant Committee (RAPC) with certain influence

- Substantive authority to modify amendments to the RA Program >
- Substantive authority to modify RA Program rules >
- Subject to stakeholder right of appeal to independent board >

Once the initial structure of the board and program is established, the

Point of compliance (entity that will have a compliance obligation to the



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PROPOSED GOVERNANCE APPROACH – OVERVIEW

- > to refine the role of this committee
- >
- > committee
- **Independent Evaluator** (IE) Reports to BOD for annual > review of program

Committee of States (COS) – meeting through the Summer

Nominating Committee (NC) – the members of the BOD will be selected by a NC comprised of multi-sector representatives. **Program Review Committee** (PRC) – future changes to the program rules will be recommended through a multi-sector



GOVERNANCE INTRODUCTION

ROLE OF THE NWPP

NWPP will house the governance of the program **>>**

- Independent board
- regulators, stakeholders)
- **>>**
 - Updates to bylaws

 - Registration as a 'public utility'
- Considerations include: **>>**
 - ____
 - terms
 - ____
 - green-fielded

Facilitate and support committees (including participants,

Provide services in line with strengths currently established (coordination, facilitation, training, etc.)

Current NWPP CORP/board does not meet FERC 'independence' requirements – transition plan includes:

Updates to board membership, selection process

Preserving existing NWPP functions / existing board's fiduciary duties under the Corporation agreements

Include existing board members on new board for two

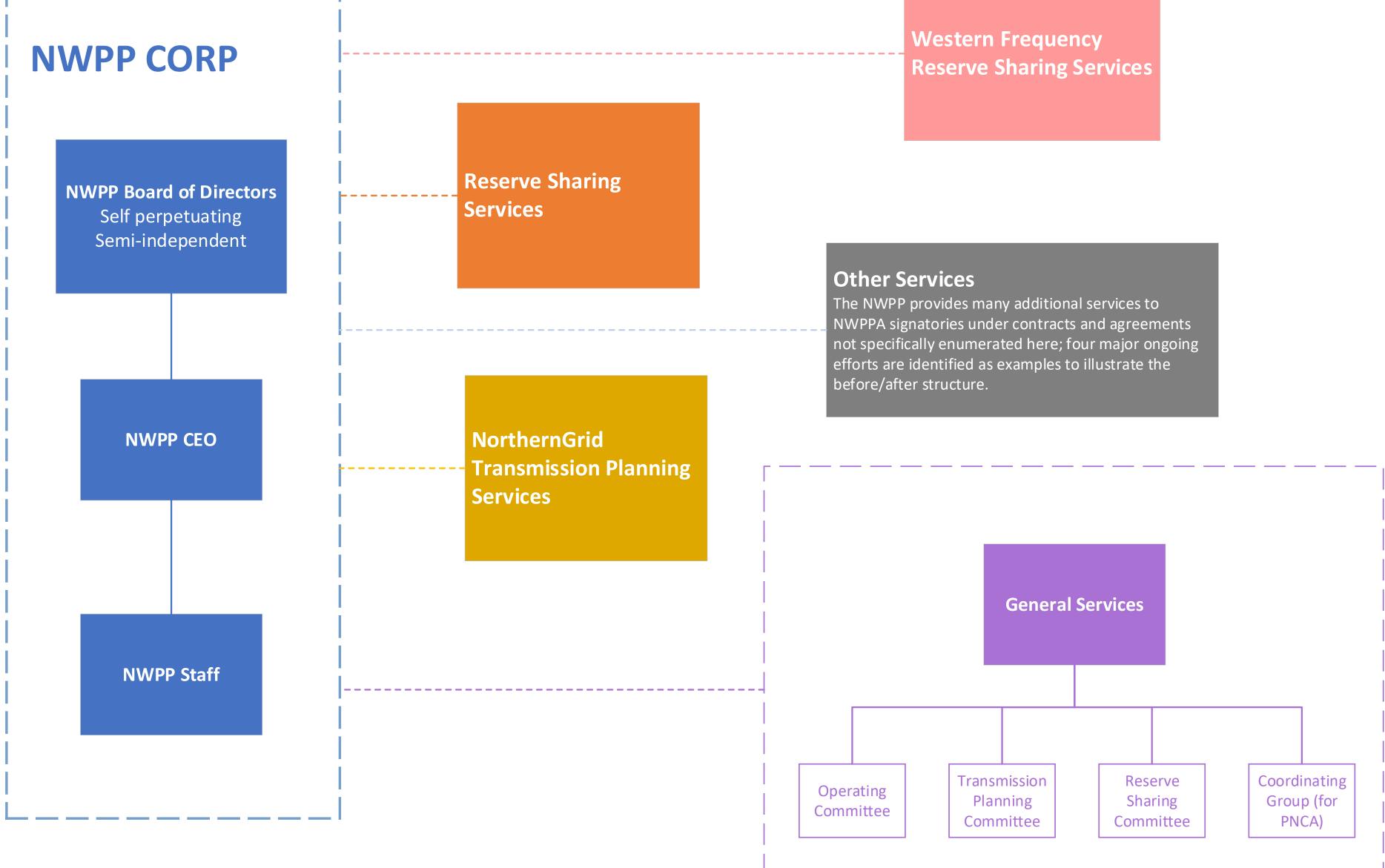
Include NWPP CEO on board

Capitalize on economies of scale and strengths already identified – hire technical capabilities not easily/affordably

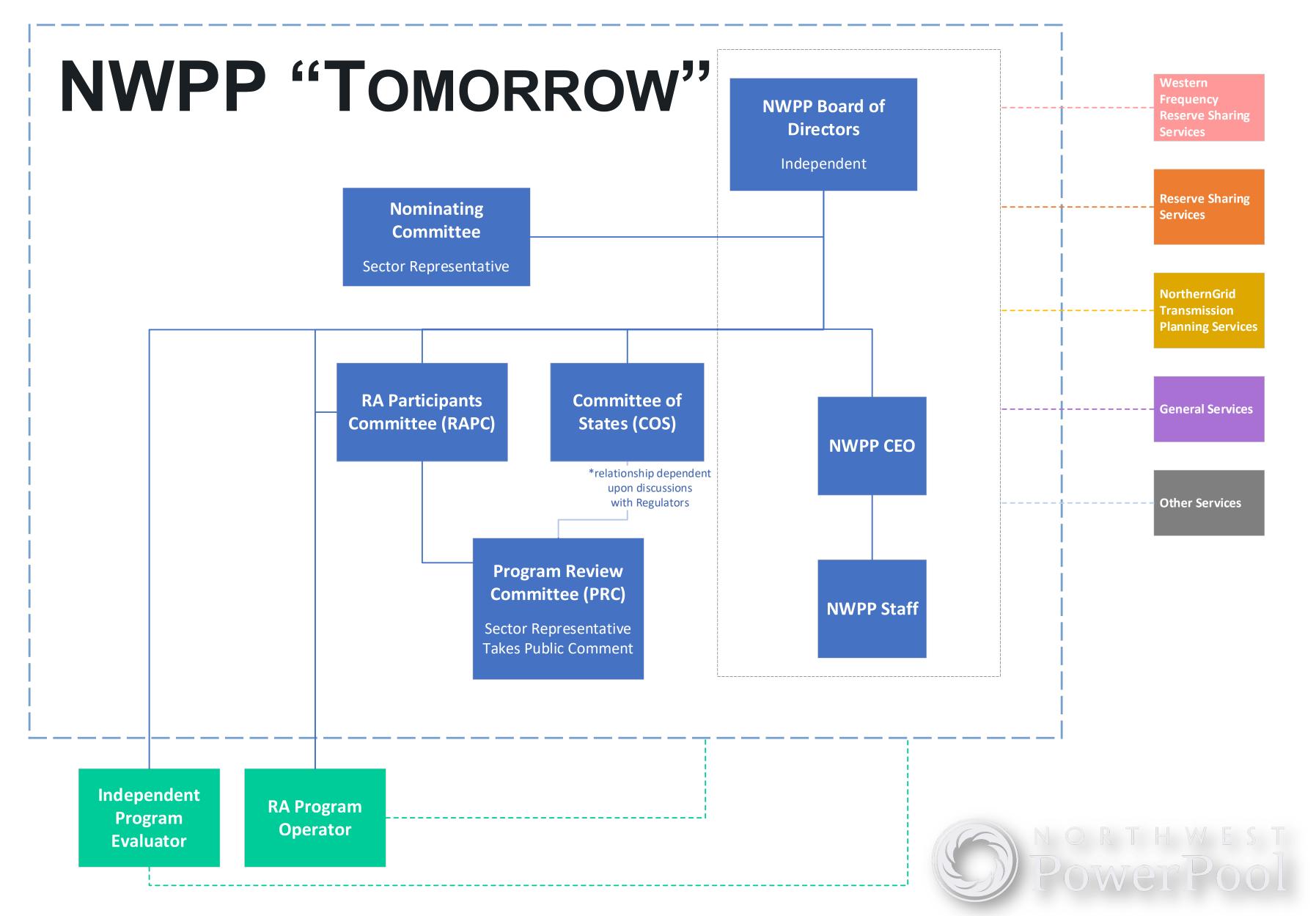


GOVERNANCE INTRODUCTION

NWPP TODAY



GOVERNANCE INTRODUCTION



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AND STRUCTURAL **FUNCTIONS**

1.7 COST ALLOCATION PRINCIPLES

MARD SHOWING DESIGN

3. OPERATIONAL DESIGN

STATES ENGAGEMENT PROCESS

- Partnering with Maury Galbraith of WIEB/WIRAB to engage > with state regulators on governance
- Series of meetings with state regulators >
 - Began June 25th
 - Sessions planned for July 16th and August 6th Additional sessions will be held through the fall as needed
- LREs will need the support of their state commissions to > participate in the regional RA program
 - While it is not currently the case that any LRE needs explicit state approval to join, any LRE that experiences incremental costs or other changes to operations will need ongoing state support, otherwise the LRE risks negative outcomes in future PUC proceedings
- State buy-in and engagement for the regional RA program is critical to its success



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NOMINATING COMMITTEE

- The members of the BOD will be selected by an NC comprised of certain stakeholder representatives **>>**
- The NC is responsible for nominating and selecting BOD members and recommending compensation for the BOD ≫
- The NC will be comprised of 13 individuals from stakeholder **>>** sectors
- Proposed sectors include: **>>**

Participants/RAPC, ensuring appropriate representation among these different types of participants Independent power producers/marketers Public interest or customer advocacy groups BOD (a member who is not rolling off) COS (chair or vice chair) NWPP member (not on RAPC)



PROGRAM OPERATOR

- Technical administration needs will be contracted to ____ an entity already possessing these capabilities / experience:
 - Perform Forward Showing (including data collection > and validation), modeling/analytics, and compliance reviews
 - Operations/real-time program operations, audit, and > after-the-fact compliance
 - Manages continual technical and processes > improvement
 - IT Systems >
- Program Operator (PO) services will be provided by Southwest Power Pool (SPP) – in final stages on contract negotiation



GOVERNANCE 1.5

NDEPENDENT EVALUATOR

- **>>**

 - and limitations:

>>

- changes;

- >> of IE, more to come

The day-to-day operation of the program by the NWPP and PO should be separate from the oversight and evaluation of the program by the IE in order to meet FERC's independence requirements

To be effective, independent program monitoring and evaluation must be transparent. Every effort should be made to aggregate data in order to preserve confidentiality, while still effectively communicating program results to stakeholders

The IE is charged with the following responsibilities

Analyzes operations, accounting/settlement, and design of program and makes recommendations for

Does not monitor program participants

Does not have decision-making authority; and

Reports their findings to the BOD

Still considering details around the role/responsibilities



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> 2. FORWARD SHOWING DESIGN

3. OPERATIONAL DESIGN

PROGRAM REVIEW COMMITTEE

- >> proposing design changes to the RA Program.
- **>>** specifically identified as time-sensitive or of high RAPC priority
- **>>**
- **>>**
- ≫ design update recommendations

The Program Review Committee (PRC) is a sector representative group charged with receiving, considering, and

Clearing house for all recommended design changes not

These recommended changes could come from Participants, the BOD, other committees, stakeholders, the public, etc.

The PRC will be staffed with facilitation support from the NWPP and program design/technical support from the PO

The PRC will establish a process and criteria for receiving



PROVISIONS

- **>>** remain voluntary - appropriate notice must be given prior to exit
- Standard notice provision \rightarrow

Parties must give at least 24 months written notice prior to the beginning of the next binding FS period. This requirement may result in more than 24 months between when the notice is given and the actual effective date of the exit

Non-standard exit: **>>**

"extenuating circumstances" (such as by order of regulatory") authority)

Exit by fee to ensure that any unreasonable harm from earlier exit is mitigated

Participant experiences a significant decrease in forecasted peak load after the two-year deadline has transpired

Once proper notice is provided, Participant will be \rangle in withdrawal period until exit is effective

> During which the Participant is required to continue to comply with all requirements of the RA Program

> Will recuse themselves from any votes or actions affecting the RA Program for timeframes that extend beyond the withdrawing Participant's exit effective date

Participant entry and exit from the program will



INTERIM GOVERNANCE/ORGANIZATIONAL STRUCTURE FOR PHASE 3A

- As the RA program moves into implementation, the organizational structure will evolve to look more like the governance structure envisioned for the future
- Steering Committee will transition to the RAPC
 - Participants that have signed agreements will participate on RAPC (one rep per participant) >
 - Will be the decision-making body for Phase 3A, expected to ratify decision changes, endorse > approach and filing at FERC, and direct the PO in consultation with NWPP
 - Will adopt voting practices akin to those recommended for RAPC governance in the future >
- Subcommittees evolve
 - Operating Committee (RAPC OC)
 - Additional subcommittees will be stood up to address the following and more: > Prep for FERC Filing Consult on NWPP updates Aid in PO management and direction Facilitate implementation/business practice development

INTERIM GOVERNANCE/ORGANIZATIONAL STRUCTURE FOR PHASE 3A

Program Review Committee

> Scope of work for 3A: establish committee processes, and recommend a process and criteria for receiving and reviewing design update recommendations as well as seeking and incorporating public comment

Nominating Committee

Scope of work for 3A: identify and document procedures for the committee, create specifications for future NWPP BOD, hire an executive search firm

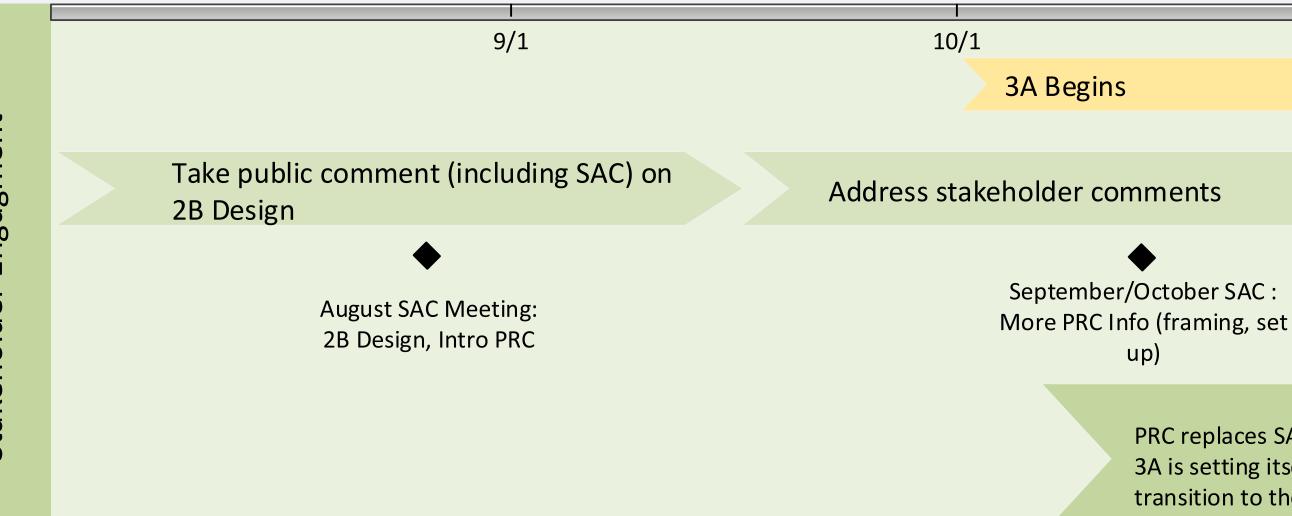
SAC PANEL ON GOVERNANCE





STAKEHOLDER ENGAGEMENT TRANSITION

- Planning to hold two more SAC meetings as we transition into program implementation phase: today and Sept/October meeting
- Engagement with states will continue, input requested by end of year 2021
- Quarterly public webinars will be held throughout Phase 3A to provide updates on program design, implementation progress and next steps
- PRC set up between now and late October/mid-November



11/1 PRC replaces SAC in the fall. PRC's first stage of work during 3A is setting itself up. After set up is complete, the PRC will

transition to the next phase of work: design review.

PROGRAM REVIEW COMMITTEE SET UP AND NEXT STEPS

By late October/Mid-November:

- Appoint sector representatives each sector responsible 1. for developing its own process
- Develop code of conduct for PRC member participation 2.
- Establish process and criteria for receiving future design 3. update recommendations
- Develop public and stakeholder comment process 4.



Snapshot of NWPP RA Program Detailed Design: Forward Showing Program

Program Structure	Bilateral - Participants will continue to be resp and products to procure from other Participar
Compliance Periods	Two binding seasons: Summer (June 1 – Sep Fall and Spring seasons would be advisory (r
Forward Showing Deadline	Participants will demonstrate compliance with advance of the start of the binding seasons - will cure issues by three months prior to the s
Reliability Metric	FS Program is designed to identify the capac loss of load expectation (LOLE) target for eac
Load Forecasting	Entities will forecast their own loads, working methodologies. PO will use load forecasts and historical data each month in the binding season - the highe of that season.
Planning Reserve Margin	Seasonal PRM will be determined for Summer percentage of each Participant's identified se

oonsible for determining what resources nts or suppliers

ot 15) and Winter (Nov 1 – Mar 15) no penalties for non-compliance)

The FS reliability metrics seven months in if notified of deficiency by the PO, entities start of the binding season

ity needed to meet a 1 day in 10 years ch season

with the PO to use acceptable forecasting

to identify a P50 (1-in-2) peak load for st monthly P50 will be used for all months

er and Winter seasons and expressed as a a asonal P50 load forecast

Snapshot of NWPP RA Program Detailed Design: Forward Showing Program

<section-header></section-header>	Short Term Storage: ICAP Testing – ability of th			
	 Rely on existing OATT frameworks to facilitate and Ops - will not infringe on TSPs' and BAs' OATT responsibilities. 			
Transmission	 Demonstrate deliverability of resources claimed transmission (firm, conditional firm, network set at FS deadline having procured or contracted 75% of the resources (or contracts) claimed in 			
	 When sharing is forecasted in the Ops progra transmission for resources not previously shore 			
Penalty for FS Jon-Compliance	Deficiency payment based on cost of new entry			

rrying Capability (ELCC) analysis.

that considers the past 10 years to operational constraints.

ne resource to maintain the value over the

e energy storage resource will use ICAP od as outlined above.

as a load modifier or as a capacity

e transmission-related requirements in FS responsibilities, nor diminish Participants'

ed in the FS on NERC priority 6 or 7 ervice – in some conditions) - demonstrate for transmission rights to deliver at least h the FS portfolio from source to load.

m, prepare to demonstrate firm wn to have NERC priority 6/7 transmission.

(CONE) for a new peaking gas plant.

Snapshot of NWPP RA Program Detailed Design: Operational Program

	Sequentially comparing forecasts to the FS metric preschedule day, identification of sharing events a preschedule day, and energy deployments on the			
Framework for				
Accessing	 Can only call on pool capacity when Load + Co load + Planning reserve margin (PRM) – forced 			
Pooled	over-performance			
Capacity				
	reliability metric			
	Providing Entity:			
	 Administrator will ask those not experiencing log 			
	 Could request the difference between their RA 			
Transmission and Deliverability	 If PO forecasts a sharing event (i.e., one or mo Participants will be expected to have sufficient (or as applicable, 6NN transmission rights at th load plus their expected sharing requirement. 			

cs beginning six days before the and required capacity holdback on the e operating day

ontingency Reserves > Forecasted peak d outages – VER underperformance +VER

equal to the amount of load over their

oads over their RA obligations assist obligations and forecasted load

ore Participant is forecasted to be deficit), firm or conditional firm transmission rights ne TSP's discretion) to meet their expected

NON-BINDING PROGRAM DETAILS AND SIGN-UP INFORMATION



SIGN-ON TIMELINE NON-BINDING PROGRAM

- Signing participation agreements (as soon as 8/16)
 - Inviting LREs from across the West to participate in the next phase ("3A") – this is an expansion of participation as compared to past project phases
 - Signing window: August 16 September 30
- Those signing on would also be requested to sign an NDA

PROGRAM COSTS

Participation costs will cover the following:

- Setting up NB
- NB data validation
- NB modeling
- Stakeholder engagement
- Legal work for FERC filing*
- **NWPP Board transition***

*These costs can be "opted out of" by entities wanting to experience program participation with less financial and resource commitment and a smaller role in program design and implementation. Again, this forfeits the right to serve on any RAPC subcommittee

Costs will be split by all participants on a "House and Senate" basis

- 50% split pro-rata
- 50% split based on %P50-proxy load

(P50-proxy load will be used in 3A only – instructions to calculate this value will be included in documentation needed to sign on)



VERY APPROXIMATE EXAMPLE **COST ALLOCATION**

Phase	3A (Oct 202	1 – Dec 2022)	3B (Jan 2023	– Sept 2025)	
Total Program Load	80,000 MW	60,000 MW	80,000 MW	60,000 MW	
Approximate # of Participants	28	20	28	20	
Large (~10000 MW)	\$800K	\$1.1M	\$1.5M	\$1.9M	
Medium (~3500 MW)	\$395K	\$580k	\$735K	\$1M	
Medium (~1000 MW)	\$240K	\$330K	\$445K	\$615K	
Small (~100 MW)	\$185K	\$257k	\$340K	\$475K	

These are extremely approximate ranges - not exact numbers —

Meant to show an order of magnitude —

Allocation of costs will depend completely on how many entities sign up and what their P50 loads are —

Costs are by phase - not annual 31 NWPP⁻



VERY APPROXIMATE 3A PAYMENTS

Phase	2021				2022			
Total Program Load	80,000 MW		60,000 MW		80,000 MW		60,000 MW	
Approximate # of Participants	28		20		28		20	
Payment Dates	Due at signing (10/2021)	Remaining NTE*	Due at signing (10/2021)	Remaining NTE*	Due 1/2022	Remaining NTE*	Due 1/2022	Remaining NTE*
Large (~10000 MW)	\$144K	\$55K	\$195K	\$75k	\$430K	\$170K	\$580k	\$225k
Medium (~3500 MW)	\$71K	\$30K	\$95K	\$40K	\$213K	\$80K	\$290k	\$115k
Medium (~1000)	\$43K	\$17K	\$60K	\$25K	\$130K	\$50K	\$180K	\$70K
Small (~100 MW)	\$33K	\$13K	\$46K	\$20K	\$100K	\$39K	\$140K	\$55K

*NTE = not to exceed; this budget covers things like prep for the FERC filing. These costs will be billed monthly as they accrued. These costs can be opted out of, but participants who take this option lose the ability to sit on work groups/subcommittees.

- These are extremely approximate ranges not exact numbers —
- Meant to show an order of magnitude
- Allocation of costs will depend completely on how many entities sign up and what their P50 loads are
- Costs would be lower for those opting out of RAPC subcommittee work
 - **32** NWPP





PARTICIPATION IN NON-BINDING PROGRAM

- Choosing to participate in RA Program —
- Commit to submitting data on time with defined schedule
- Sit on RA Participant Committee (RAPC)
 - Decision-making body approves design changes >
 - Lead's their organization's engagement in all RA Program requirements (data submittal, showing, etc.) >
- Sit on Subcommittees (~10-12 hours/week of a senior) **resource)** – can opt out*
 - **Operating Committee (RAPC OC)** >
 - Additional subcommittees will be stood up to address the following and more: > **Prep for FERC Filing** Consult on NWPP updates

Aid in PO management and direction

Facilitate implementation/business practice development

*Participants can opt for a lower financial commitment and forfeit rights to participate on subcommittees

THRESHOLD FOR FUNDING

- Program will only proceed if enough participants (with large enough load) are signed on
- Will provide a maximum cost of the agreement prior to signing
- If too few join, we will need to reevaluate path forward and funding commitments

UP NEXT

Moving into Phase 3A (Implementation – non-binding) October 2021-December 2022

- \rightarrow SPP
- **>>** NDA (as soon as 8/16)
- **>>** Program
- Preparation for later phases \rightarrow

 - - - **Operations program**

Completing the PO contracting process with

Signing participation agreements including an

Inviting LREs from across the West to participate in the next phase ("3A") – this is an expansion of participation as compared to past project phases Signing window: August 16 – September 30

Stage 1: Non-Binding Forward Showing

Perform 2 FS Showings (turn portfolio in to Program Operator): Winter 2022, Summer 2023 Metrics provided for Winter 2022 and Summer 2023 (plus further-out looks at 2025-6)

Prepare for FERC filing (filing targeted for March 2022) Prepare for NWPP independent board (transition in 2023) Work through outstanding design considerations for