

# NWPP RESOURCE ADEQUACY PUBLIC WEBINAR

***FRANK AFRANJI, NWPP***  
***JULY 1, 2020; 1:00-2:30 P.M.***



# AGENDA

- Update on recent NWPP RA program work and accomplishments
- Phased program implementation approach and interim solutions under consideration
- Two Binding Seasons
- Resource Eligibility
- Approaches under consideration to address import/export assumptions

# OVERVIEW OF PROJECT TIMELINE



**Phase 1:  
Information  
Gathering  
(concluded Oct.  
2019)**

**Phase 2A:  
Preliminary  
Design Phase  
(Early 2020)**

**Phase 2B:  
Detailed Design  
(Late 2020)**

**Phase 3:  
Begin Work to  
Implement  
Program (2021)**

# STATUS UPDATE

- Developing conceptual design document with proposals on program design elements
- Decision to hire for a program developer to help navigate detailed design phase and stand up program
- RA modeling for the region with the help of E3 well underway
- Evaluating regulatory pathways with legal assistance
- Three advisory committee meetings and two public webinars

# STAKEHOLDER ADVISORY COMMITTEE

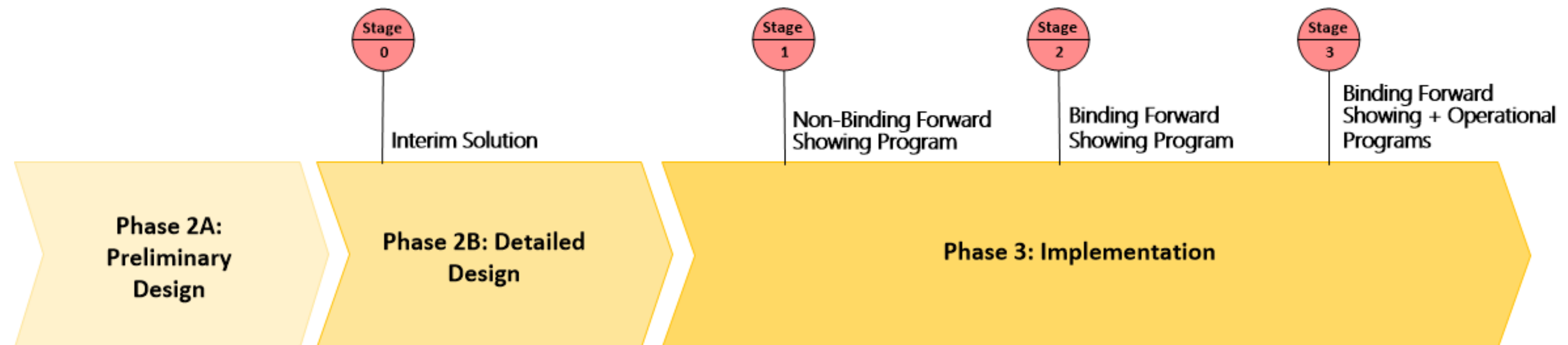
- Request for more information about the stakeholder review process of the conceptual design document
- Discussion on the importance of the NWPP RA program demonstrating benefits to the entire region
- Program design should not create disincentives for any class of participants
- Desire for more information about the NWPP RA program will interact with other RA programs and with CAISO's existing EIM and future EDAM

# PHASED APPROACH TO PROGRAM IMPLEMENTATION

*JOEL COOK, BPA*



# PHASED APPROACH TIMELINE



# STAGE 0: INTERIM SOLUTION

- › Stop-gap in the event of a loss of load event before RA program is fully functional
- › Participants would be eligible to give/receive RA assistance on a voluntary basis during the high grid stress periods of Winter (November through March) and Summer (June through September)



# STAGE 1

## NON-BINDING FORWARD SHOWING PROGRAM

- » Two Non-Binding Showings (one summer, one winter season)
- » Program Administrator (PA)
  - Inform participants of RA requirements
  - Participating entities submit information to the PA on the established timelines, PA to certify whether they have met obligations
- » No penalties for non-compliance
- » Implemented through multi-lateral agreement
- » Anticipated to be non-FERC jurisdictional



# STAGE 2

## BINDING FORWARD SHOWING PROGRAM

- » Two Binding Showings (one summer, one winter season)
- » Program Administrator
  - Same role as in non-binding EXCEPT: penalties for non-compliance implemented
- » Anticipated to trigger FERC jurisdiction over the binding elements of this stage



# STAGE 3

## BINDING FORWARD SHOWING AND OPERATIONAL PROGRAMS

- » A full operational program will be added, enabling participating entities to access pooled regional resources in a structured program
  - Anticipated to trigger FERC jurisdiction over certain elements of this stage (i.e., accessing pooled resources, use of transmission)
- » Stage 3 functionality anticipated for 2024 timeframe



# TWO BINDING SEASONS

***GREGG CARRINGTON, CHELAN PUD***



# TWO BINDING SEASONS PROPOSAL

- › **Winter** (BINDING): Nov-March
- › **Summer** (BINDING): June-Sept
- › Spring (advisory): April -May
- › Fall (advisory): October

*Administrator may provide additional out-year data or metrics for planning purposes – to be further discussed in Phase 2B*

# TWO BINDING SEASONS PROPOSAL

- › **Compliance showing deadline** *7 months in advance of binding seasons*  
  
Entities must demonstrate to Program Administrator that they have sufficient resources to meet required metrics
- › **Cure period** *for 2 months following compliance showing date*  
  
Complete contracts or acquire resources to true up any discrepancies between required metrics and portfolio shown

# TWO BINDING SEASONS PROPOSAL

## Proposed Compliance Seasons

Season	Binding/ Advisory	Duration	Compliance Showing Date	Cure Period
Winter	Binding	November-March	March 31	April 1 – May 31
Summer	Binding	June-September	October 31 (of prior year)	November 1 – December 31 (of prior year)
Spring	Advisory	April-May	N/A	N/A
Fall	Advisory	October	N/A	N/A





# RESOURCE ELIGIBILITY PROPOSAL

***CATHY KIM, PGE***



# RESOURCE ELIGIBILITY PROPOSAL

- Resource eligibility will require a registration and certification process for all resources
- Historical performance of resource would meet the operational test requirements for existing resources
- The definition of a system and the process/ability to aggregate will be considered during Phase2B: Detailed Program Design

# ELIGIBILITY OF RESOURCE TYPES

- Program is designed to be technology agnostic; all resources will be considered
- The Program Administrator will be responsible for determining the capacity contributions as new resources are added
- The Steering Committee has considered some resource types, but additional resources will be considered during Phase 2B: Detailed Design

# IMPORT/EXPORT ASSUMPTIONS

***MARK HOLMAN, POWEREX***



# IMPORT/EXPORT ASSUMPTIONS

- Modeling assumption of future hourly imports to footprint (in each season) will have significant impact on:
  - › *Identification of critical hours → calculation of regional PRM applied to participating entities*
  - › *Calculation of capacity contribution of resource types (intraday shape of assumed imports can change critical hours of need)*
- Modeling assumption of future hourly exports from footprint (in each season) is considered to be an individual obligation

# DETERMINING IMPORT/EXPORT ASSUMPTIONS

- CAISO has performed a historical data analysis of NWPP-CAISO RA contracts and transfers –publicly posted
- Modeling exercise with E3 included a sensitivity analysis, with an assumed hourly shape of imports in each of summer and winter seasons (and assumed exports)

# IMPORT/EXPORT APPROACH

- For purposes of initial modeling:
  - › *Provide regional load credit for hours of the day with expected (reliable) import level.*
  - › *Expected exports have no impact to load or PRM, as assumed to be from individual entities' "surplus" (surplus potentially exported is unavailable to footprint)*
- When a program is implemented, we expect to have more robust data about forward contracted imports and exports – assumptions will be reevaluated as program evolves

# QUESTIONS AND NEXT STEPS

- Questions?
- Next public webinar will be in late September
- Send follow-up questions to [inquiries@nwpp.org](mailto:inquiries@nwpp.org)



# APPENDIX

# SPP AND CAISO RA TYPES AND COMPLIANCE APPROACH

	SPP	CAISO
RA Types	<p><b>Deliverable Capacity:</b> capacity confirmed with annual deliverability study</p> <p><b>Firm Capacity:</b> capacity with firm transmission adjusted for sales or purchases</p> <p><b>Firm Power:</b> power purchases with firm transmission that include capacity, energy and planning reserves</p>	<p><b>System:</b> used to meet system peak demand</p> <p><b>Local:</b> used in specific local areas to reliably operate grid</p> <p><b>Flexible:</b> used to manage variations in load and variable energy</p>
Compliance Approach	<p><b>Summer Season:</b> (BINDING) June 1-September 30 (Summer Season Net Peak Demand + Summer Season Net Peak demand*PRM)</p> <p><b>Winter Season:</b> (NON-BINDING) Dec 1-March 31<sup>st</sup> (Winter Season Net Peak Demand +Winter Season Net Peak Demand *PRM)</p>	<p><b>Annual LSE</b> must procure 90% of System RA (for 5 summer months: May-Sept)</p> <p><b>Monthly:</b> LSE must demonstrate it has procured 100% of System (all 12 months)</p>