Western Resource Adequacy Program

BPA Day Ahead Markets Workshop: Resource Adequacy

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WRAP Basic Mechanics

Regional Resource Adequacy From Planning Through Operations

1 PLAN	2 SHOW	3 OPERATE	4 SHARE
How much capacity is needed?	Do Participants have enough qualifying capacity?	What does the system look like as operating day approaches?	Participants with surplus assist Participants with deficits.
Advance Assessment 2+ years ahead of time	**Forward Showing Submittal** 7 Months ahead of Summer and Winter Seasons	**Operational Assessment** 7 days ahead though Preschedule Day	**Energy Transaction** In real time

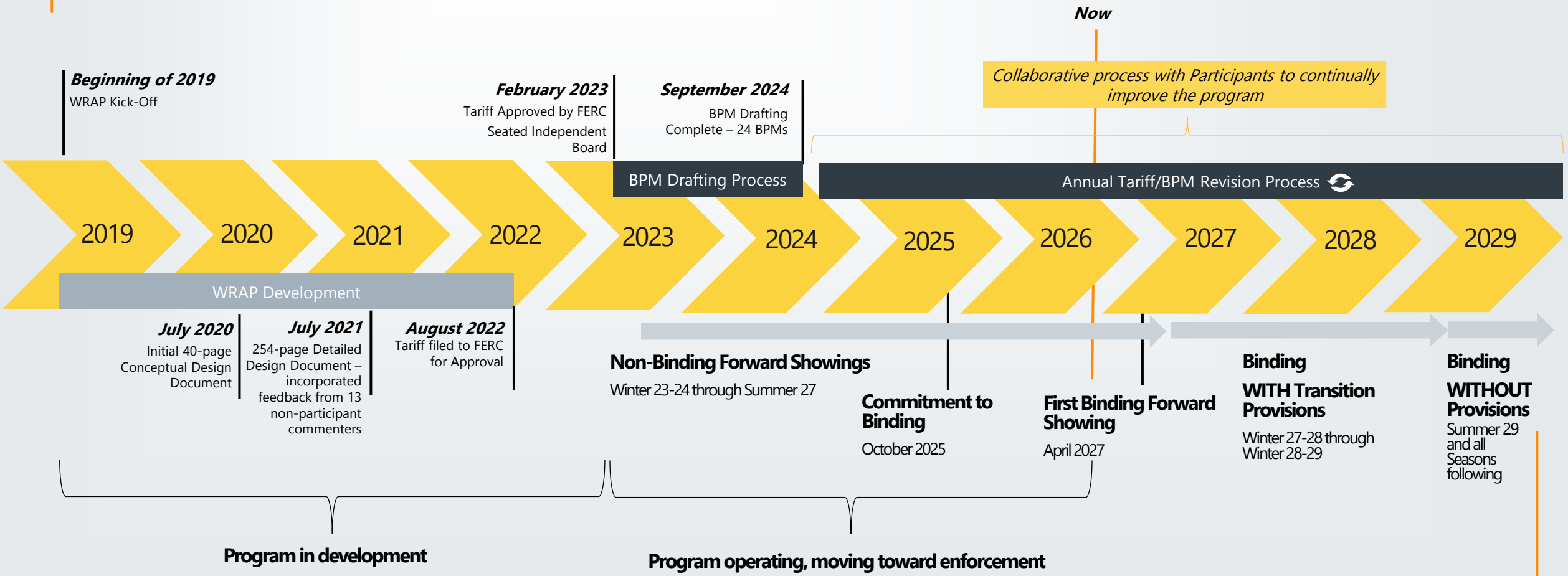
FORWARD SHOWING PROGRAM
Plan for and demonstrate resource adequacy.

OPERATIONS PROGRAM
Respond to actual system conditions

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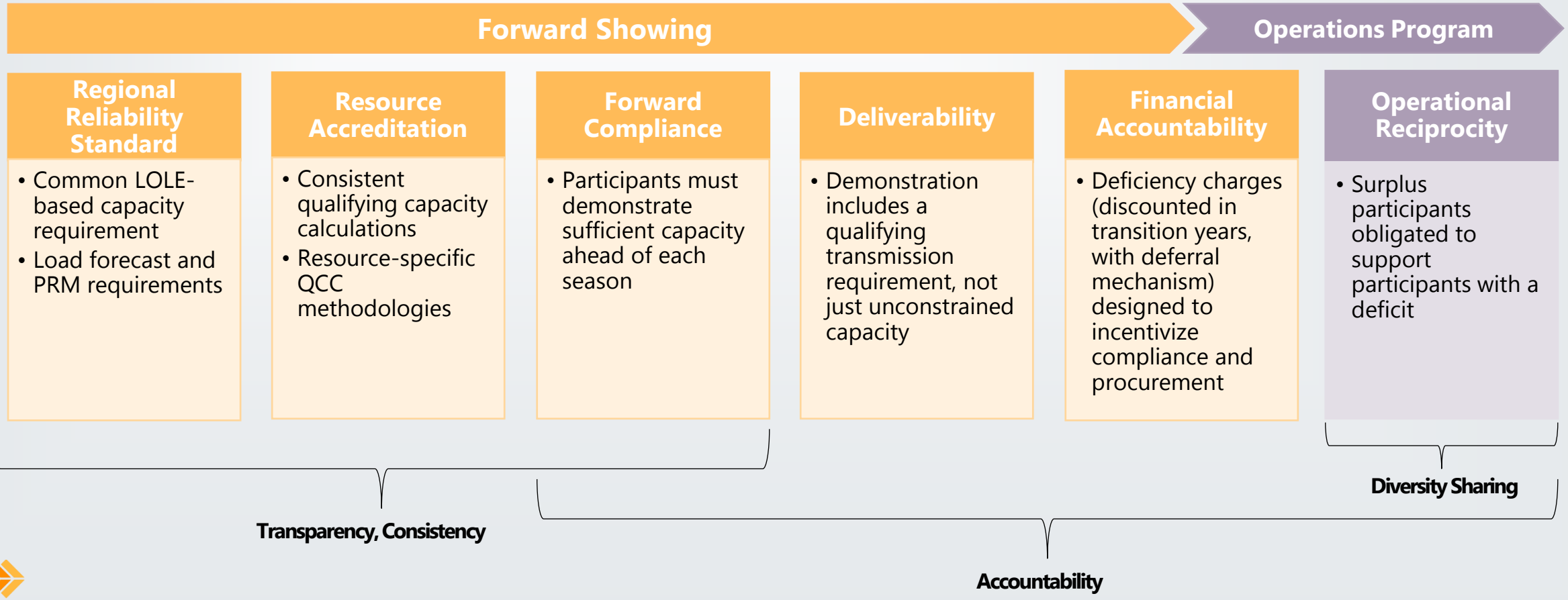
WRAP Evolution

Seven Years of Development Building Toward Binding in 2027



WRAP Core Design Attributes

Resource Adequacy Standards for a Binding Program



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WRAP Continuous Improvement

Governance and Stakeholder Input to Evolve the Program

WRAP has a FERC-approved Tariff and 24 approved Business Practice Manuals

1 FEEDBACK

Anyone can offer suggestion for program improvement into Program Review Committee workplan process

2 CONSENSUS

Changes developed through PRC task forces or directly in proposals to PRC and RAPC

3 GOVERNANCE

Formal process for review, public and COSR comment, committee and board approval

4 IMPROVEMENT

A binding program does not mean a static program – ~30 approved proposals and now embarking on third annual PRC workplan

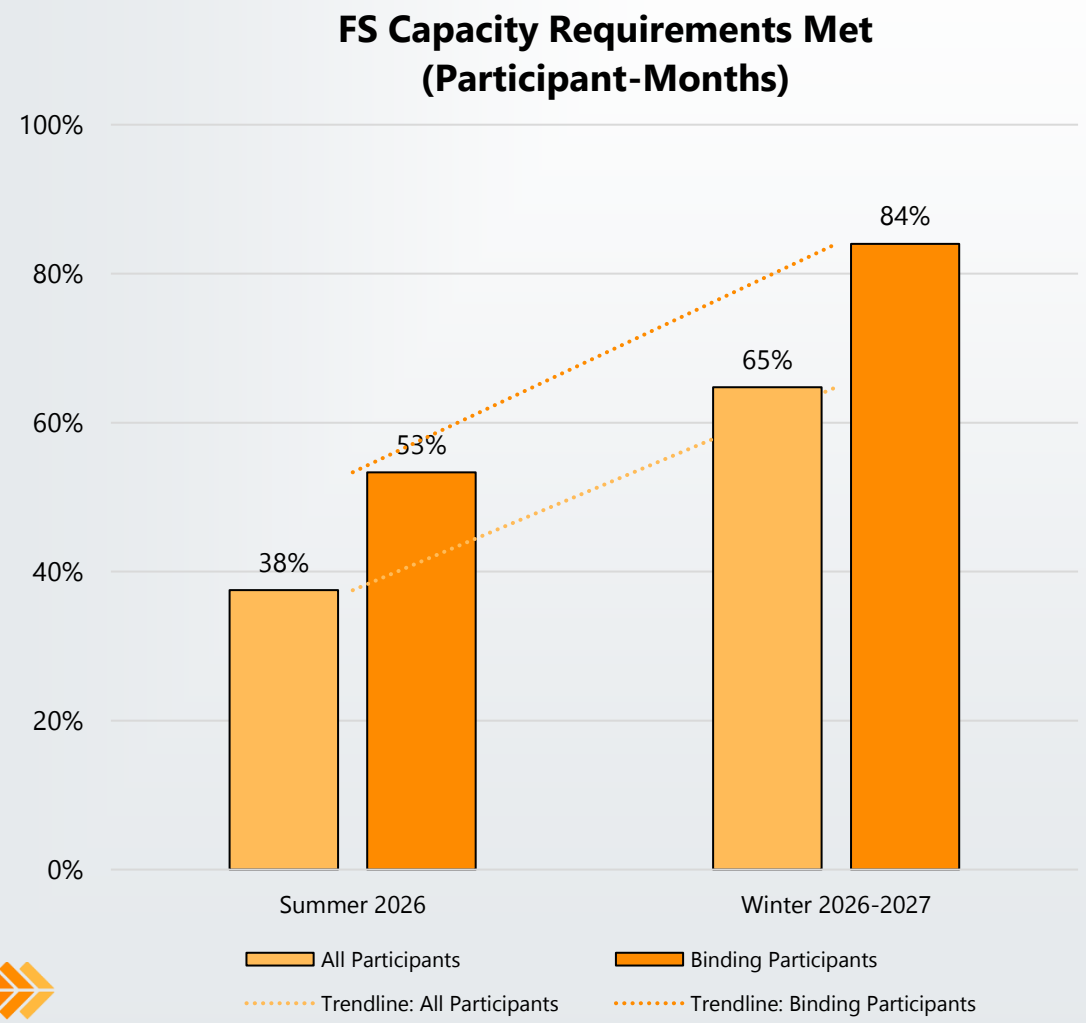
WPP has repeatedly evolved while maintaining our commitment to participants and our core reliability obligation.

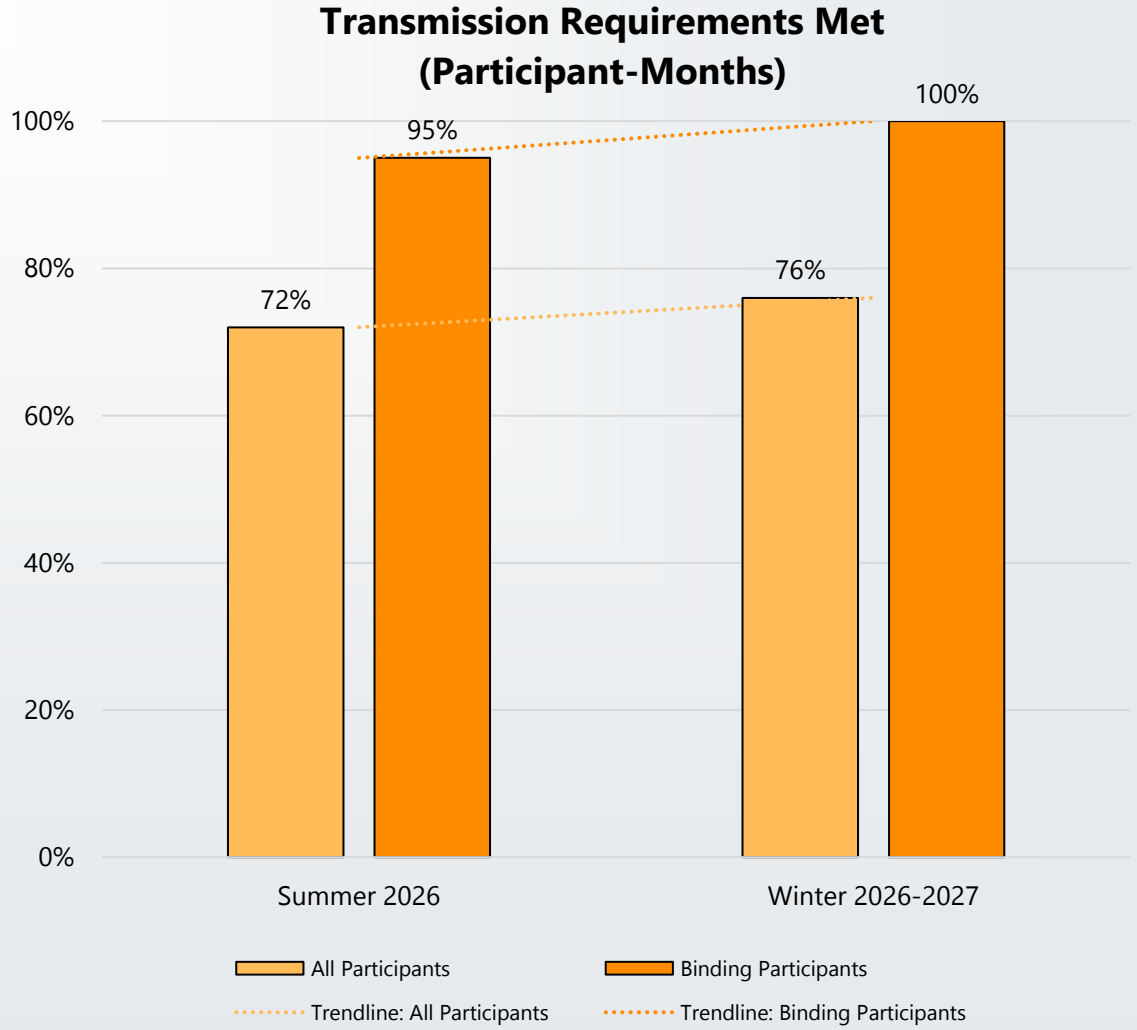
Proposals adopted or currently under consideration include:	
Transition period deficiency charge discounts	Ongoing ELCC / accreditation work to improve predictability
Deficiency change deferral mechanism	Creation of Rockies subregion
Day Ahead Market Task Force / operations integration	Creation of additional onboarding window
PRM Task Force to provide advance notice, limit volatility	

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WRAP Changing Behaviors

Binding Pushing Participants Toward Compliance, Influencing Procurement



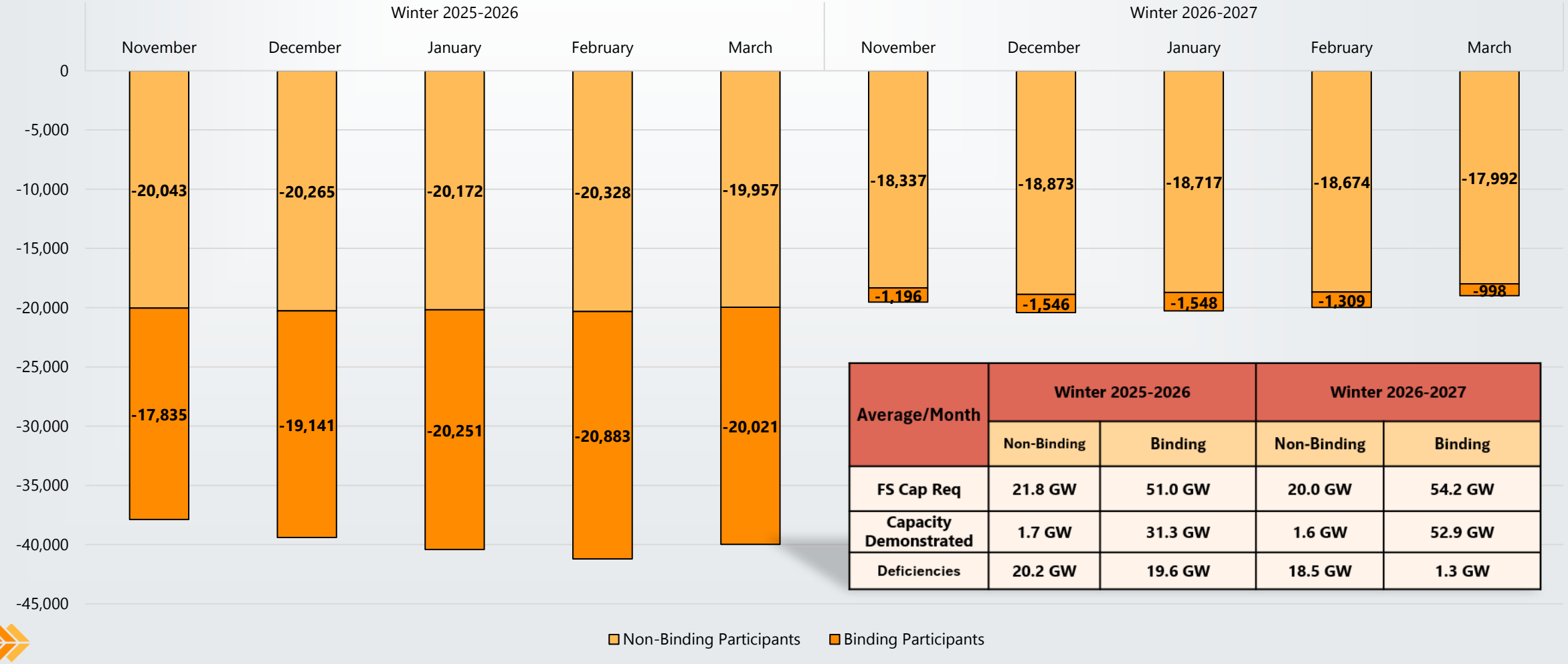


Winter 2026-2027 Binding Season has 5 months – running November 1 – March 15.

Summer 2026 had 4 months – running June 1 – September 15

WRAP Changing Behaviors

Binding Participants Trending Upward for Compliance



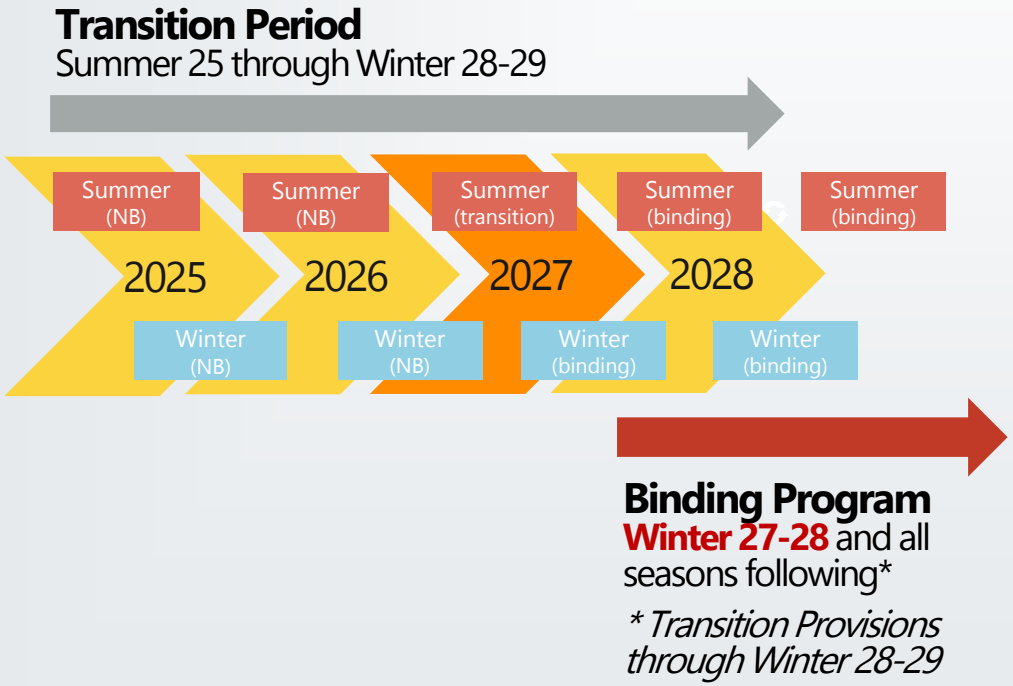
Average/Month	Winter 2025-2026		Winter 2026-2027	
	Non-Binding	Binding	Non-Binding	Binding
FS Cap Req	21.8 GW	51.0 GW	20.0 GW	54.2 GW
Capacity Demonstrated	1.7 GW	31.3 GW	1.6 GW	52.9 GW
Deficiencies	20.2 GW	19.6 GW	18.5 GW	1.3 GW

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APPENDIX

WRAP Transition Period

A responsible, phased-in approach to binding and compliance



1. Existing transition discount provisions

BPM 109 - Table 3. Reduction of Deficiency Charge Based on ETDs

Season	Percentage Value Reduction for Portion of Monthly Capacity Deficiency to Which ETDs Have Been Applied
Summer 2027	75%
Winter 2027-2028	75%
Summer 2028	50%
Winter 2028-2029	50%

2. Newly adopted deferral mechanism

-Support participants actively developing future qualifying resources.
-Preserve incentives to meet Forward Showing obligations.
-Apply only during the WRAP Transition Period.

Deficiency Charge Deferral

Timing / Outcome	Total Percentage of Original Forward Showing Deficiency Charge Owed	Rockies-Specific Deferral Amounts (total percentage of original FS Deficiency Charge)		Winter 2027/28 Deferral Timeline	Summer 2028 Deferral Timeline	Winter 2028/29 Deferral Timeline
Initial payment upon deficient Forward Showing	15%	**5%**		Winter 27/28	Summer 28	Winter 28/29
Participant fails next Forward Showing of same Season Type	40%	**20%**		Winter 28/29	Summer 29	Winter 29/30
Participant fails second Forward Showing of same Season Type	70%	**50%**		Winter 29/30	Summer 30	Winter 30/31
Participant fails third Forward Showing of same Season Type ***(end of the deferral period)***	100%	**100%**		Winter 30/31	Summer 31	Winter 31/32
Participant exits WRAP before resolution	100%	**100%**		Departs before W31/32 without passing	Departs before Summer 32 without passing	Departs before Winter 32/33 without passing

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