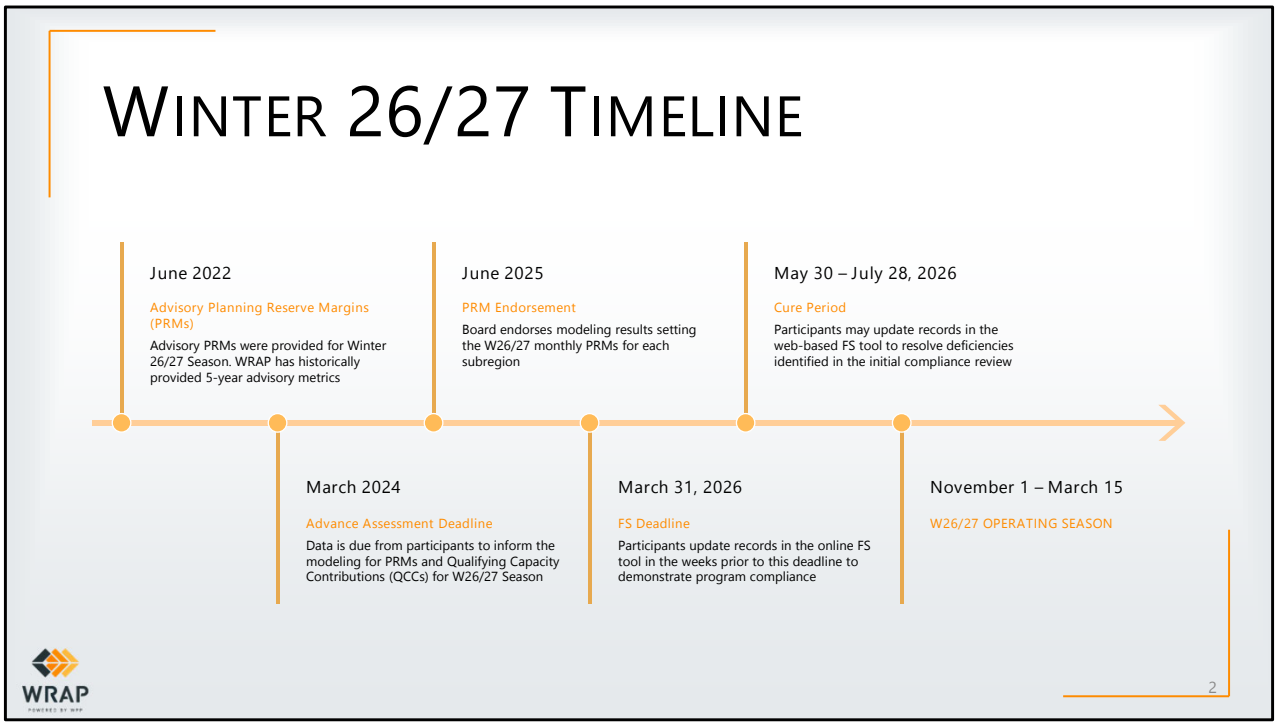
Western Resource Adequacy Program

Presented to: COSR

October 23, 2026

Forward Showing Winter 2026-2027 Data

1



W26/27 was one of the first seasons WRAP created advisory metrics for.
Timelines established in approved tariff in Jan 2023.
Metrics run/established for all participants (binding committed + exiting)

Winter season will change for W27/28 season: November 20 – end of Feb.
Showing date will change to be April 19 (7 months in advance of season start).

W26/27 Forward Showing Results

- Objectives:
  - Review results from W26/27
  - Compare to S26 for trends + binding commitment
  - Respond to specific requests from COSR members received post-in-person COSR
  - Leave time for discussion

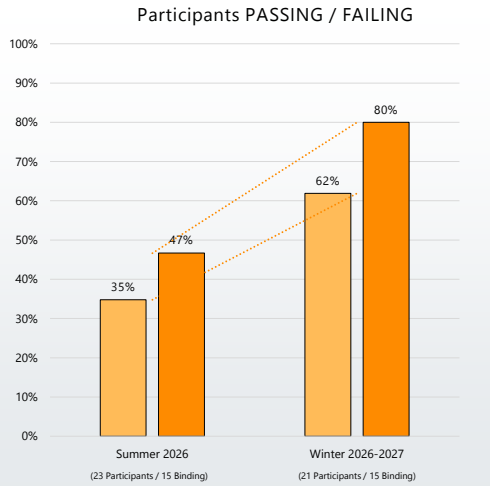
Note that the presentation focuses on outcomes, while appendices provide other looks, additional details, S26 operational participation information

WRAP

3

PARTICIPANTS PASSING FS REQUIREMENTS

TRANSMISSION AND CAPACITY



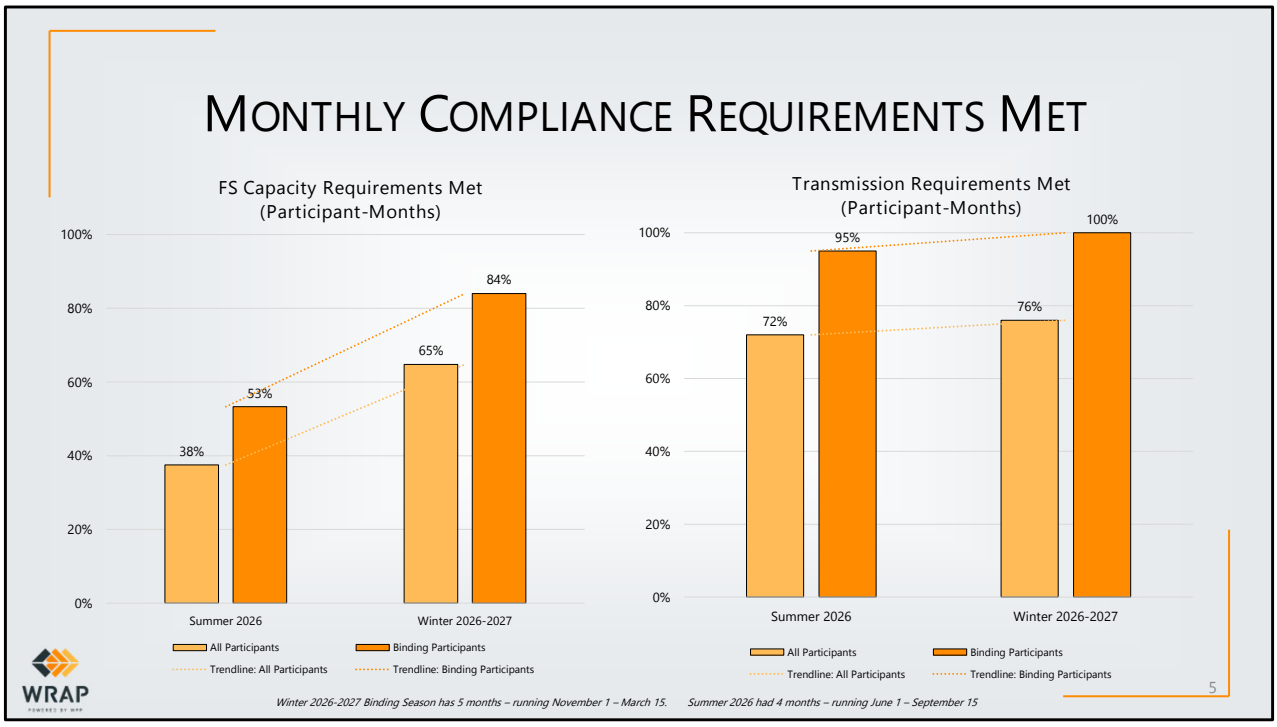
- 13 Participants (12 binding) met WRAP requirements for W26/27
- All participants improved relative to Summer 26, while Binding participants are more consistently meeting metrics

WRAP

4

Passing participants met capacity and transmission requirements. Missing attestations resulted in capacity not being counted. Unsigned Attestation A from BPM 108 (“everything in this FS demonstration is complete and truthful”) results in failure.

Longer trendlines are available in Appendix, slide 12. Summer 26 and W26/27 seasons are the only ones with binding committed participants, thus inclusion here.



Metrics relate to 'participant-months' where compliance requirements were met. Total number of Participant-months = participant workbooks * months in season (e.g. 24 participant workbooks * 4 months in summer season). One participant turns in two workbooks (one in SWEDE, one in Mid-C).

FS Transmission Demonstration

All: Transmission Deficiencies (MW)		
Month	MIDC	SWEDE
November	3,520	7,572
December	6,270	7,885
January	6,270	7,768
February	6,182	7,824
March	6,030	7,465

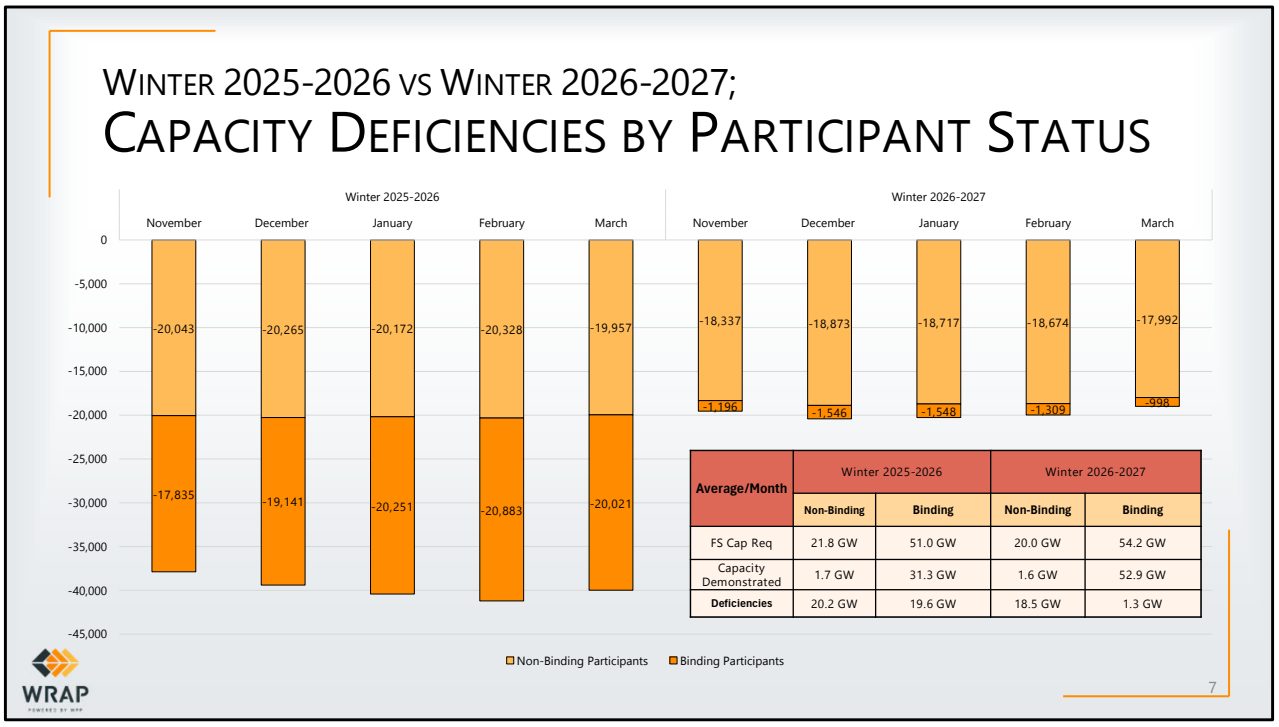
Binding: Transmission Deficiencies (MW)		
Month	MIDC	SWEDE
November	0	0
December	0	0
January	0	0
February	0	0
March	0	0

Binding Participants in both MIDC and SWEDE passed all the Transmission Requirements.

WRAP

6

Same information as presented in W26/27 graphs on slide 5, in tabular form.



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

Comparison requested by a COSR member in prep for this meeting. Note that commitment to binding participation occurred October 31 2025, after the FS demonstration for W25/26 was complete – but provided the now-binding-committed participant breakdown for the like-season comparison.

Recall that WRAP does not have any claim to surplus in portfolios of passing participants. Any surplus does not 'net' with deficiencies and is free to be contracted outside of the WRAP footprint, or otherwise used as desired (e.g. in energy market of choice).

Further breakdown requested by subregion is provided on slide 15.

CONCLUSION

» 80% of Binding Participants passed the Winter 2026-2027 FS Demonstration
  - 84% Binding Participants passed the Capacity Requirements, up from 53% in Summer 2026
  - All Binding Participants passed the Transmission Requirements

» There are fewer overall deficiencies for Winter 2026-2027 compared to Summer 2026 for both Binding and non-Binding Participants

APPENDICES

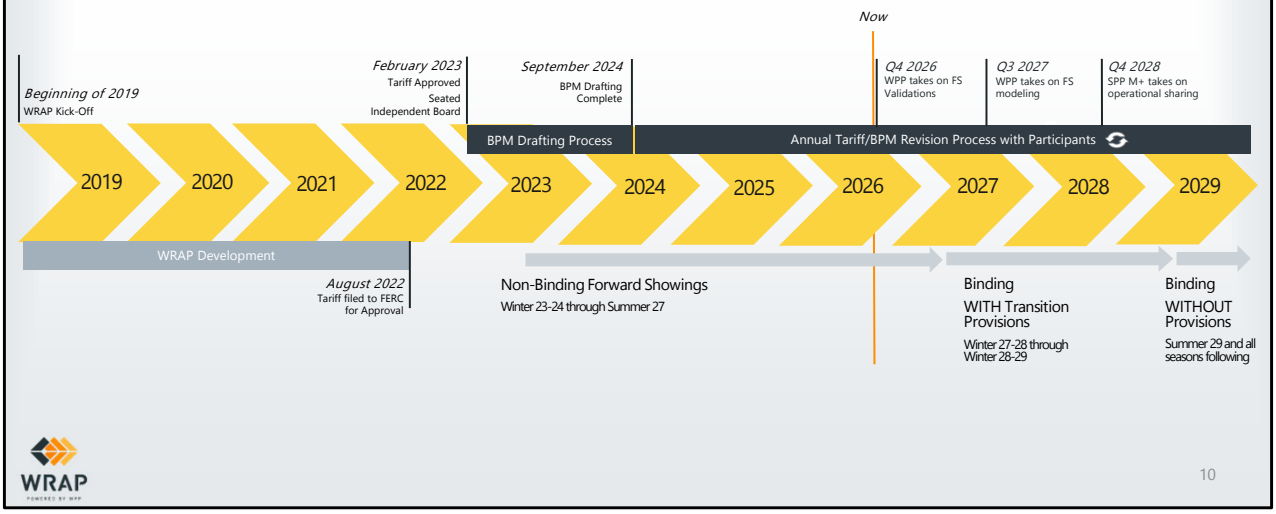
Supplemental slides showing additional detail or alternative views of similar data

- WRAP Timeline
- W26/27 FS Details
  - Aggregate Capacity and Transmission Deficiencies
  - Deficiency Details (attestations, forms, support data)
  - Data tables (supporting visuals provided)
- S26 Summer Operations Program Participation Metrics

WRAP

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WRAP Evolution

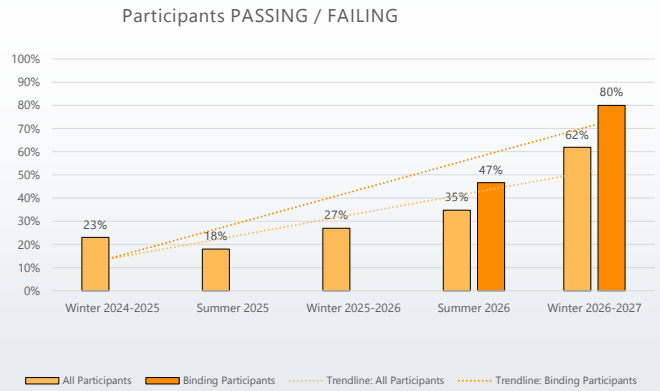


APPENDIX: FS 26/27 DETAILS

11

Passing Participants over Time

Capacity And Transmission Compliance

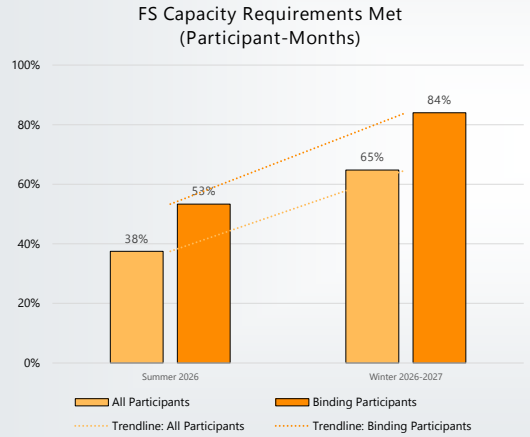


- Binding commitment occurred on 10/31/25 – prior to Summer 26 FS Deadline
- While like-season compliance improved over time, binding commitment had much more significant impact on compliance than time itself

WRAP

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FS Monthly Capacity Requirements Met



Winter 2026-2027

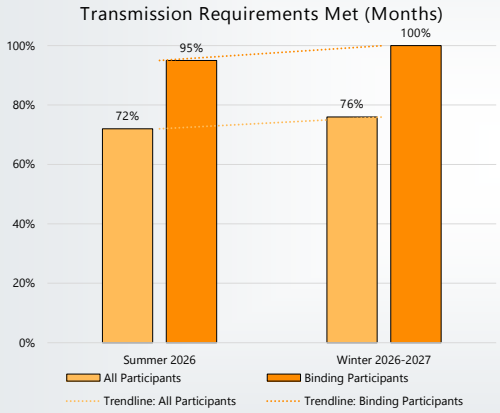
- All Participants passed 68 out of 105 (65%) total possible Participant-Months.
- Binding Participants passed the FS Capacity Requirements for 63 out of 75 (84%) possible months.

Summer 2026

- All Participants passed 36 out of 96 (38%) possible Participant-Months.
- Binding Participants passed 32 out of 60 (53%) possible months.

Winter 2026-2027 Binding Season has 5 months – running November 1 – March 15. Summer 2026 had 4 months – running June 1 – September 15

WINTER 2026-2027 POST CURE RESULTS:
TRANSMISSION REQUIREMENTS MET



Winter 2026-2027

- All Participants passed 80 out of 105 (76%) total possible Participant-Months.
- Binding Participants passed the FS Transmission Requirements for 75 out of 75 (100%) possible months.

Summer 2026

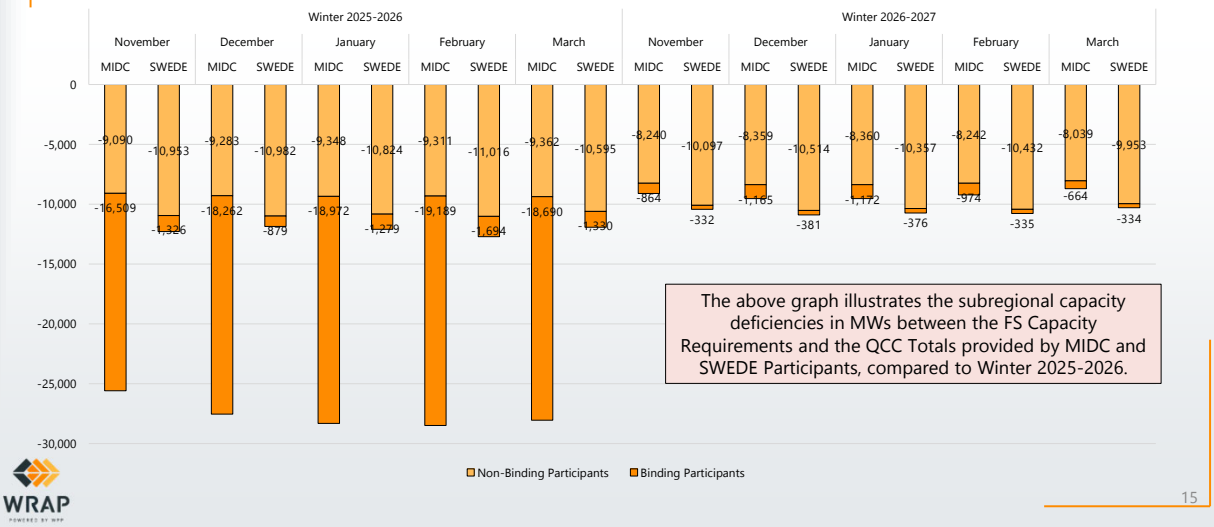
- All Participants passed 69 of 96 (72%) possible Participant-Months.
- Binding Participants passed 57 of 60 (95%) possible months.

WRAP Monthly Transmission Requirement is 75% of its Monthly FS Capacity Requirement.

Winter 2026-2027 Binding Season has 5 months – running November 1 – March 15. Summer 2026 had 4 months – running June 1 – September 15

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WINTER 2025-2026 VS WINTER 2026-2027;
CAPACITY DEFICIENCIES BY SUBREGION AND PARTICIPANT STATUS

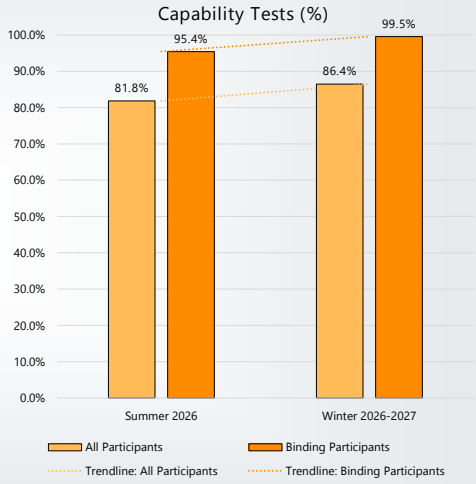


Requested breakdown of deficiencies by subregion, binding/non-binding, compared between like seasons. Commitment to binding was not made until October 31, 2025 – months after the FS deadline and review for W25/26.

AGGREGATE CURED CAPABILITY TEST FORMS

POST-CURE

Capability Test Forms only apply to Thermals, Demand Response, and Long Duration Storage Resources.



Winter 2026-2027

- All Participants cured 319 out of 369 (86%) Capability Test Forms
- Binding Participants cured 217 out of 218 (99.5%)
- Capability Test Forms

Summer 2026

- All Participants cured 338 of 413 (82%)
- Binding Participants cured 250 of 262 (95%).

Capability Testing forms require participants to identify an hour of operation at or near max capacity during the Summer season months and during an hour when the temperature was high (details in BPM 105). BPM 105 was approved in August 2023. Capacity Testing Forms only apply to Thermals, Demand Response, and Long Duration Storage resources, and are required to be completed every five years, but can be completed more often.

16

Must pull one hour of historical data for each test – operational testing must be in the 12 months prior, while capability testing in the last 5 years. There is no need for a premeditated 'test' – historical data will suffice if it meets the requirements.

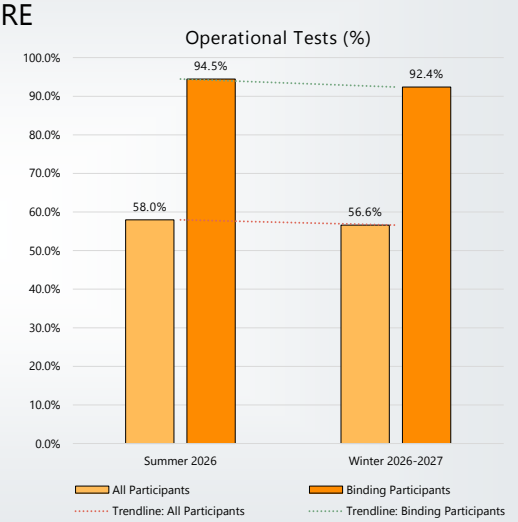
METRICS SPECIFICATIONS:

Metric is based on the successfully upload of required testing documentation for the given season

AGGREGATE CURED OPERATIONAL TEST FORMS

POST-CURE

For Winter 2026-2027, there are 1,263 resources for Participants to both submit for Forward Showing and link testing evidence, and deficiencies could occur at one of these two levels. Operational Forms must be submitted for all Qualifying Resources.



Winter 2026-2027

- All Participants cured 715 out of 1,263 (57%) Operational Test Forms
- Binding Participants cured 666 out of 721 (92%) Operational Test Forms

Summer 2026

- All Participants cured 838 of 1,446 (58%)
- Binding Participants cured 785 of 831 (95%)

WRAP

Operational Testing forms are required for all Qualifying Resources within the 12 months prior to the Forward Showing Deadline. Operational Testing requirements are defined in BPM 105 which was approved in August of 2023.

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Operational tests are required to be provided annually (in the 12 months prior to showing deadline). No requirement for a premeditated 'test' – historical data will suffice if it meets the requirements.

Metric is based on the successfully upload of required testing documentation for the given season

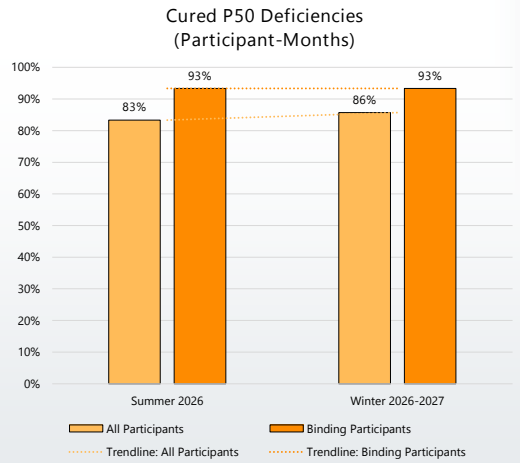
CURED P50 DEFICIENCIES

Winter 2026-2027

- All Participants cured 90 out of 105 (86%)
- Binding Participants cured 70 out of 75, or (93%), P50 Deficiencies

Summer 2026

- All Participants cured 80 of 96 (83%)
- Binding Participants cured 56 of 60 (93%)



WRAP

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Participants are responsible for providing and maintaining their P50 peak load values. Participants may need to update their P50 Peak Load values after the Advance Assessment data is collected (i.e.. when its expected peak demand has changed enough that the previously submitted forecast no longer represents the Participant's anticipated load for the binding season).

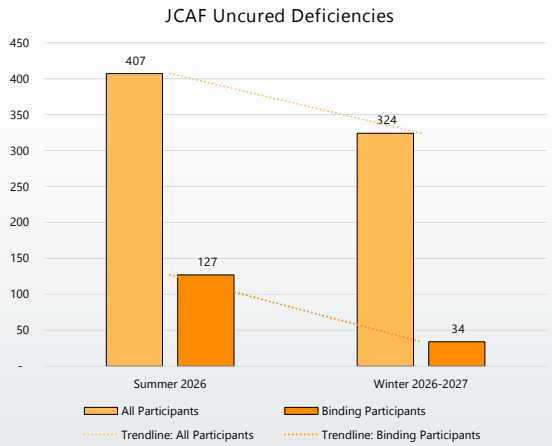
UNCURED JCAF DEFICIENCIES

Winter 2026-2027

- There are 324 Uncured JCAFs for All Participants
- There are 34 Uncured JCAFs for Binding Participants

Summer 2026

- There were 407 Uncured JCAFs for All Participants
- There were 127 Uncured JCAFs for Binding Participants



JCAFs serve to confirm that contracts convey capacity that meets WRAP Tariff standards and are required as supporting documentation for most contracts. The metric presented above is inclusive of: JCAFs not submitted at all, and JCAFs submitted without the required signatures from buyer and/or seller or otherwise incomplete.

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METRICS SPECIFICATIONS:

What would be considered a JCAF deficiency?

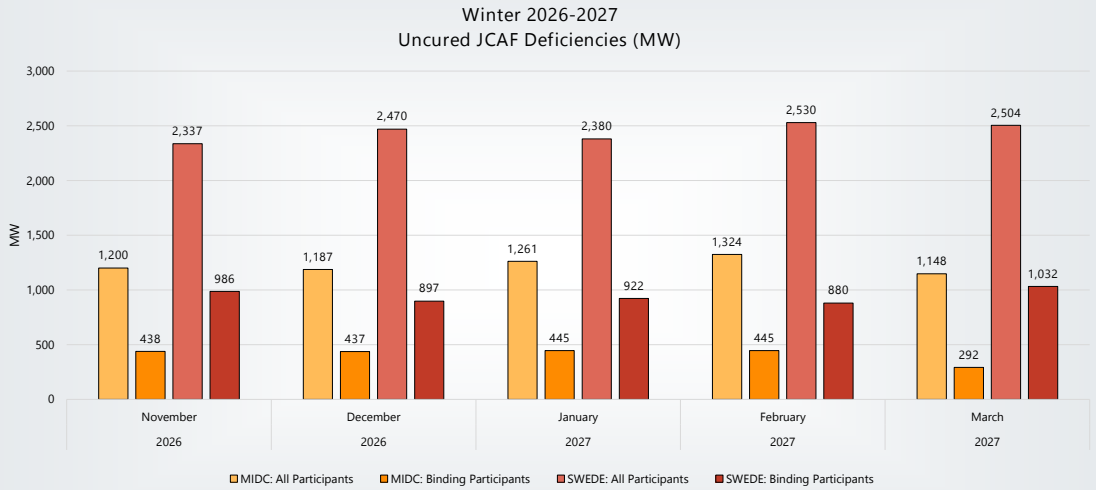
- Missing JCAF
- JCAF is not signed by required counterparties
- Invalid signatures on JCAF such at “BPA agrees to Capacity”, “Will sign only during Binding Season”…
- Seller or Buyer names missing
- Future dates
- Start and End dates not covering the applicable months of the season for which capacity is being claimed
- Over claimed monthly values in EDST compared to what is in the JCAF for applicable months of the season for which capacity is being claimed

    - Missing or Invalid Contracted Capacity Firm Delivery Point
    - NULL/BLANK values in required fields except for the Buyer/Seller contact info (they have the option to only provide only the email and/or the phone number)

What would NOT be considered a JCAF deficiency?

- Clerical errors such as but not limited to:
    - incorrect or missing contact info (i.e. only one of the either between a phone number and email)
    - General language typo
    - Misspelled Contract/Resource identifiers
    - Missing Buyer signature in Seller's Transmission Attestation section
    - Mismatch of start and/or end date with what is submitted in EDST where the month and day might have been entered incorrectly (i.e. 4/1/2010 vs 1/4/2010)
    - MW values entered instead of % values for resource-specific contracts
    - Missing information in Section 2

UNCURED JCAF DEFICIENCIES CONT'D



The total MWs affected by JCAF Discrepancies in Winter 2026-2027 are 18,341 MW for All Participants and 6,774 MW for Binding Participants.

JCAFs are considered invalid if not submitted, incomplete or with missing signature.

Uncured Attestation Deficiencies

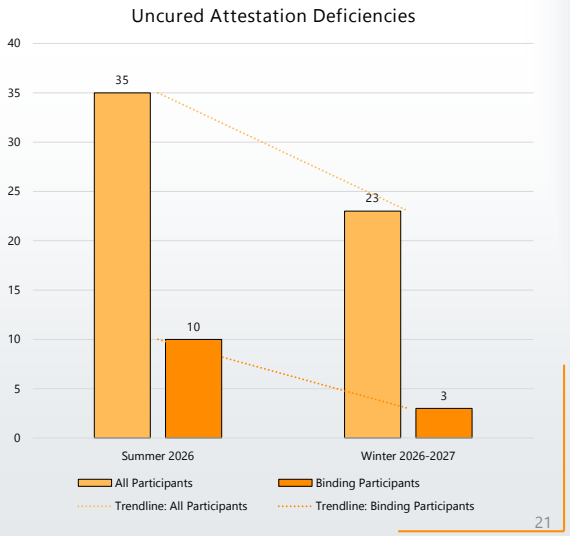
Winter 2026-2027
- There are 23 Uncured Attestation Deficiencies for All Participants
- There are 3 Uncured Attestation Deficiencies for Binding Participants

Summer 2026
- There were 35 Uncured Attestation Deficiencies for All Participants
- There were 10 Uncured Attestation Deficiencies for Binding Participants

BPM 103
- P50 Load Forecast Modification Senior Official Attestation
- Load Exclusion Senior Official Attestation

BPM 106
- Attestation in lieu of an Annual JCAF
- Attestation for 100% Off Take, Must Take Resources

BPM 108
- FS Demonstration on Attestation
- Catastrophic Resource Failure Exception Attestation
- Transmission Exemption Form
- Enduring Constraint Additional Attestation
- Planned Outages Attestation Form
- Non-GADs QCC Calculation Attestation
- Demand Response Attestation
- Storage Hydro Attestation
- Transmission Rights Attestation



Includes only attestations not related to JCAFs.

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METRICS SPECIFICATIONS:

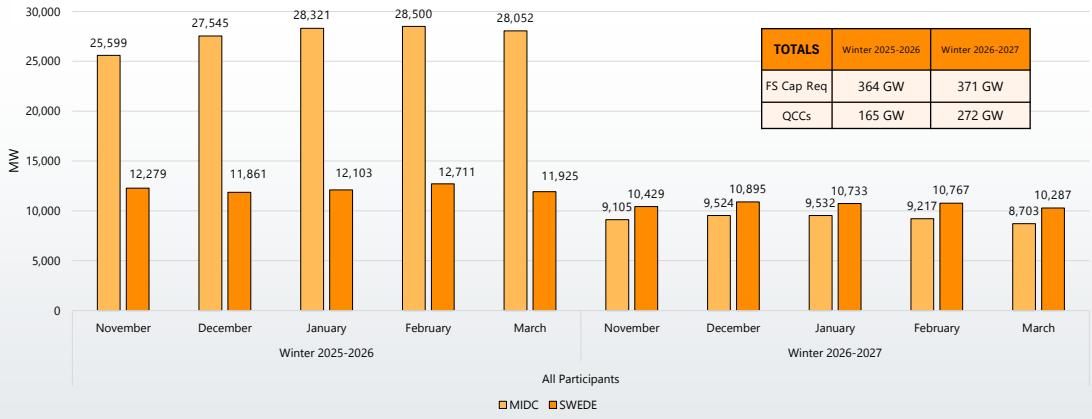
What would be considered an Attestation deficiency?

- Missing attestation required by Tariff and BPMs
- Unsigned Invalid required by Tariff and BPMs
- Invalid attestation required by Tariff and BPMs such as but not limited to:
  - Incorrect attestation language used
  - Missing information
  - Future dated

WINTER 2025-2026 VS WINTER 2026-2027;

FS CAPACITY REQUIREMENTS VS SHOWN QCC

ALL PARTICIPANTS



TOTALS	Winter 2025-2026	Winter 2026-2027
FS Cap Req	364 GW	371 GW
QCCs	165 GW	272 GW

The above graph illustrates the subregional capacity deficiencies in MWs between the FS Capacity Requirements and the QCC Totals provided by MIDC and SWEDE Participants, compared to Winter 2025-2026.

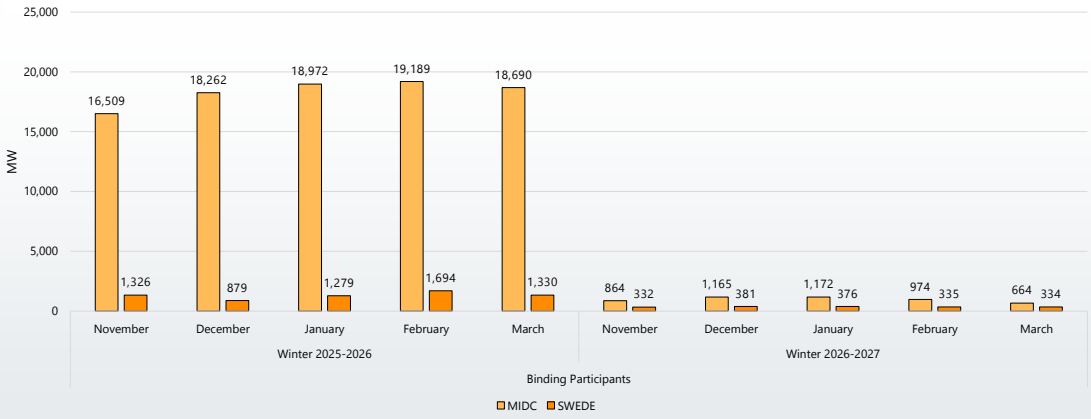
22

Note: improvement for Participant QCCs to be able to meet their FS Capacity Requirement may be due in part to an increase in signed attestations (especially BPM 108 Attestation A) that allow the QCCs to “count” and a decrease in other deficiencies (e.g. testing documentation, acquisition of resources).

WINTER 2025-2026 VS WINTER 2026-2027;

FS CAPACITY DEFICIENCY MWS

BINDING PARTICIPANTS



The above graph illustrates the subregional capacity deficiencies in MWs between the FS Capacity Requirements and the QCC Totals provided by MIDC and SWEDE Binding Participants, compared to Winter 2025-2026.

23

Note: improvement for Participant QCCs to be able to meet their FS Capacity Requirement may be due in part to an increase in signed attestations (especially BPM 108 Attestation A) that allow the QCCs to “count” and a decrease in other deficiencies (e.g. testing documentation, acquisition of resources).

Appendix: W26/27 FS Results in Tabular format

TOTAL UNADJUSTED FS CAPACITY REQUIREMENT (MW)

All: FS Capacity Requirement		MIDC	SWEDE
Winter 24-25			
2024	November	41,891	24,799
2024	December	44,583	26,022
2025	January	43,770	25,582
2025	February	45,450	26,480
2025	March	43,866	23,738
Summer 25			
2025	June	45,168	40,099
2025	July	42,727	42,546
2025	August	44,235	41,265
2025	September	39,764	42,397
Winter 25-26			
2025	November	44,918	25,013
2025	December	48,378	26,058
2026	January	48,646	25,726
2026	February	48,486	26,146
2026	March	47,056	24,301
Summer 26			
2026	June	43,938	43,465
2026	July	44,168	44,756
2026	August	45,958	44,508
2026	September	41,435	42,670
Winter 26-27			
2026	November	46,737	25,743
2026	December	49,114	27,843
2027	January	49,303	27,511
2027	February	48,271	27,656
2027	March	43,953	25,451

Binding: FS Capacity Requirement		MIDC	SWEDE
Summer 26			
2026	June	2,908	225
2026	July	3,221	244
2026	August	3,218	188
2026	September	3,518	111
Winter 26-27			
2026	November	38,477	14,168
2026	December	40,733	15,705
2027	January	40,916	15,548
2027	February	40,002	15,610
2027	March	35,889	14,041

WRAP

Sum of Validated QCCs* (MW)

All: Validated QCCs		MIDC	SWEDE
Winter 24-25			
2024	November	25,672	4,598
2024	December	26,797	5,126
2025	January	27,067	5,020
2025	February	28,033	5,298
2025	March	2,741	4,774
Summer 25			
2025	June	16,361	6,168
2025	July	15,612	6,344
2025	August	15,869	6,058
2025	September	14,628	6,139
Winter 25-26			
2025	November	19,190	12,734
2025	December	20,697	14,197
2026	January	20,196	13,623
2026	February	19,859	13,435
2026	March	18,896	12,376
Summer 26			
2026	June	27,737	26,051
2026	July	27,671	26,656
2026	August	28,605	26,686
2026	September	26,092	25,791
Winter 26-27			
2026	November	37,598	15,316
2026	December	39,555	16,952
2027	January	39,735	16,780
2027	February	39,020	16,890
2027	March	35,229	15,166

Binding: Validated QCCs		MIDC	SWEDE
Summer 26			
2026	June	27,737	23,780
2026	July	27,671	24,357
2026	August	28,605	24,440
2026	September	26,092	23,637
Winter 26-27			
2026	November	37,598	13,836
2026	December	39,555	15,326
2027	January	39,735	15,174
2027	February	39,020	15,276
2027	March	35,229	13,708

WRAP

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*Validated QCCs= Met all Tariff and BPM requirements, including but limited to Signed JCAFs and attestations, Operational & Capability Testing
NOTE: MW values are capped by each participants' Monthly FS Capacity Requirement to be consistent with program policy. In other words: for Participants that failed a given month, the total validated capacity they provided in that month will be added to the sum; for Participants that passed that month, their Monthly FS Capacity Requirement will be added. This ensures we are not including surplus from passing participants

Sum of In Program QCCs* (MW)

All: QCCs Not Fully Validated		MIDC	SWEDE
Winter 24-25			
2024	November	40,061	24,156
2024	December	42,006	25,442
2025	January	41,511	25,015
2025	February	42,369	25,860
2025	March	40,935	22,982
Summer 25			
2025	June	43,667	39,302
2025	July	41,620	41,317
2025	August	42,928	39,971
2025	September	38,680	40,123
Winter 25-26			
2025	November	41,443	24,326
2025	December	44,324	25,364
2026	January	44,468	25,040
2026	February	44,274	25,454
2026	March	43,199	23,756
Summer 26			
2026	June	41,375	41,986
2026	July	41,599	43,327
2026	August	42,530	43,159
2026	September	39,078	41,424
Winter 26-27			
2026	November	43,804	25,032
2026	December	45,936	26,816
2027	January	46,185	26,514
2027	February	45,400	26,664
2027	March	41,184	24,690

Binding: QCCs Not Fully Validated		MIDC	SWEDE
Summer 26			
2026	June	33,355	23,871
2026	July	33,425	24,496
2026	August	34,488	24,535
2026	September	31,200	23,645
Winter 26-27			
2026	November	38,462	13,456
2026	December	40,525	14,676
2027	January	40,822	14,551
2027	February	39,994	14,618
2027	March	35,892	13,279

WRAP

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Capped by each participants' Monthly FS Capacity Requirement to be consistent with program policy. In other words: for Participants that failed a given month, the total validated capacity they provided in that month will be added to the sum; for Participants that passed that month, their Monthly FS Capacity Requirement will be added. This ensures we are not including surplus from passing participants.

TRANSMISSION DEFICIENCIES (MW)

All: Transmission Deficiencies		MIDC	SWEDE
Winter 24-25			
2024	November	2,232	848
2024	December	2,364	1,064
2025	January	2,191	628
2025	February	2,446	807
2025	March	2,353	522
Summer 25			
2025	June	6,395	12,079
2025	July	6,259	12,645
2025	August	6,300	12,432
2025	September	5,474	13,386
Winter 25-26			
2025	November	7,457	4,859
2025	December	7,724	4,859
2026	January	7,779	4,778
2026	February	7,747	4,872
2026	March	7,701	4,681
Summer 26			
2026	June	4,204	5,742
2026	July	4,239	5,890
2026	August	4,334	5,952
2026	September	4,193	5,579
Winter 26-27			
2026	November	3,520	7,572
2026	December	6,270	7,885
2027	January	6,270	7,768
2027	February	6,182	7,824
2027	March	6,030	7,465

Binding: Transmission Deficiencies		MIDC	SWEDE
Summer 26			
2026	June	0	57
2026	July	0	104
2026	August	0	60
2026	September	0	0
Winter 26-27			
2026	November	0	0
2026	December	0	0
2027	January	0	0
2027	February	0	0
2027	March	0	0

WRAP

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JCAF Deficiencies (MW)

All: JCAF Deficiencies		MIDC	SWEDE
Winter 24-25			
2024	November	16,479	3,014
2024	December	16,903	3,458
2025	January	16,528	3,310
2025	February	16,247	3,333
2025	March	16,039	3,239
Summer 25			
2025	June	14,676	8,260
2025	July	15,383	9,004
2025	August	15,540	8,382
2025	September	15,406	8,371
Winter 25-26			
2025	November	6,970	11,312
2025	December	7,158	11,433
2026	January	7,094	11,383
2026	February	7,121	11,501
2026	March	6,694	11,686
Summer 26			
2026	June	3,702	628
2026	July	4,074	643
2026	August	4,056	594
2026	September	4,361	526
Winter 26-27			
2026	November	1,200	2,337
2026	December	1,187	2,470
2027	January	1,261	2,380
2027	February	1,324	2,530
2027	March	1,148	2,504

Binding: JCAF Deficiencies		MIDC	SWEDE
Summer 26			
2026	June	2,908	225
2026	July	3,221	244
2026	August	3,218	188
2026	September	3,518	111
Winter 26-27			
2026	November	438	986
2026	December	437	897
2027	January	445	922
2027	February	445	880
2027	March	292	1,032

WRAP

** JCAFs are considered invalid if not submitted, incomplete, or missing signature.*

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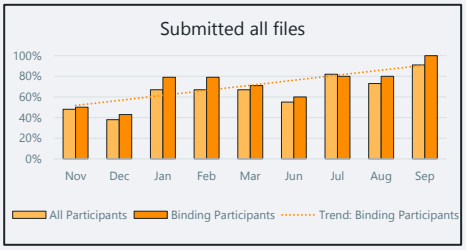
Operations Program Summer 2026 Data

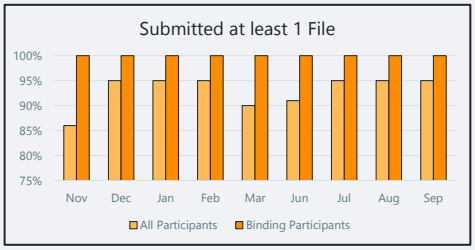
WRAP

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WINTER 25-26 AND SUMMER 26: COMPARISON

Operations File Metrics	Winter 2025-2026					Summer 2026			
	Nov	Dec	Jan	Feb	Mar	Jun	Jul	Aug	Sep
All Participants submitted at least 1 file	86%	95%	95%	95%	90%	91%	95%	95%	95%
All Participants submitted all file types	48%	38%	67%	67%	67%	55%	82%	72%	91%
Binding Participants Submitted at least 1 file	100%	100%	100%	100%	100%	100%	100%	100%	100%
Binding Participants submitted all file types	50%	43%	79%	79%	71%	60%	80%	80%	100%



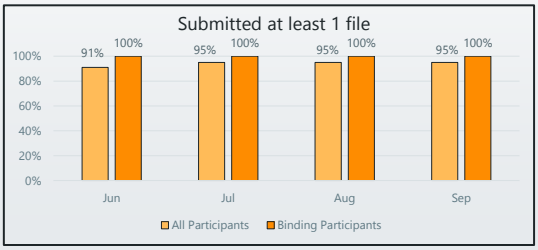


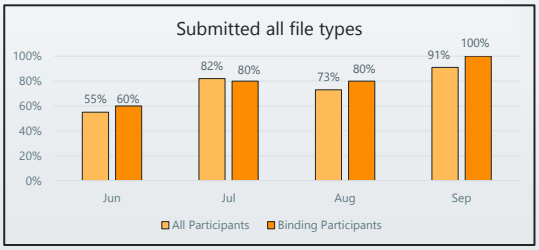
Takeaways

- Improvement for both Binding and Non-Binding for both metrics from past Winter Season
- Binding Participants continue to score 100% for all months for submitting at least 1 file

SUMMER 26 OPERATIONS PROGRAM DATA

Operations File Metrics	Summer 2026							
	Jun		Jul		Aug		Sep	
All Participants submitted at least 1 file	20/22	91%	21/22	95%	21/22	95%	21/22	95%
All Participants submitted all files	12/22	55%	18/22	82%	16/22	73%	20/22	91%
Binding Participants submitted at least one file	15/15	100%	15/15	100%	15/15	100%	15/15	100%
Binding Participants submitted all files	9/15	60%	12/15	80%	12/15	80%	15/15	100%





There is a total of 6 input file types that are required with different submission times. The metrics reflect Participants who were able to successfully submit all 6 types of files on all Preschedule days in the month