

Analysis of ODEC ELCCSTF Package

Informational Posting

July 29, 2025

- This analysis is in response to stakeholder request to analyze the ODEC solution package ([presented at the July 25, 2025 ELCCSTF](#))
- The ODEC proposal is to “supplement PJM’s proposal by reducing the probability of drawing the PV1 and WSE performance data by 33%.”
 - In order to run this sensitivity analysis, PJM assigned sampling weights to each date utilizing $\alpha = 0.2$ (as it does under the PJM proposal), then reduced the sampling weight of 1/6/2024, 1/7/2014, 1/8/2014, 12/23/2022, 12/24/2022, 12/25/2022 and 12/26/2022 by 33%.
- The following slides contain assumptions putting this analysis into context with the previous ELCCSTF analysis, and results relative to the PJM proposal.

- Consistent with presentation at <https://www.pjm.com/-/media/DotCom/committees-groups/task-forces/elccstf/2025/20250530/20250530-item-02---sensitivity-analyses-of-weighting-approach---pjm-presentation.pdf>
 - The 26/27 BRA case +
 - DR changes DR changes recently accepted by FERC in Docket No. ER25-1525 +
 - “WICAP” sensitivity + (as described in slides 15-18 at <https://www.pjm.com/-/media/DotCom/committees-groups/task-forces/elccstf/2025/20250522/20250522-item-02---elcc-accreditation-methodology-update-on-sensitivity-analyses---pjm-presentation.pdf>)
 - “Align” sensitivity + (as described in slides 11-15 at <https://www.pjm.com/-/media/DotCom/committees-groups/task-forces/elccstf/2025/20250522/20250522-item-02---elcc-accreditation-methodology-update-on-sensitivity-analyses---pjm-presentation.pdf>)
 - Preliminary 24/25 weather, load and resource performance data
 - Performance weighting alpha value equal to 0.2

Analysis #1: PJM Proposal vs ODEC Proposal (including preliminary winter 24/25 data)

Results	24/25 Data* x1 Alpha=0.2 (PJM Proposal)	24/25 Data* x1 Alpha=0.2 (ODEC Proposal)	Difference (ODEC - PJM)
Solved Load	160,759	161,577	+818
IRM	19.0%	18.4%	-0.6%
Overall Winter LOLH Share	68%	57%	-11%
LOLH Risk Contribution of Jan 7 2014 Performance Pattern	16 %	14%	-2%
LOLH Risk Contribution of Dec 24 2022 Performance Pattern	49%	39%	-10%
LOLH Risk Contribution of Winter 2013/14 Performance Pattern	17%	15%	-2%
LOLH Risk Contribution of Winter 2022/23 Performance Pattern	52%	42%	-10%
Conditional Probability of Drawing PV1 or WSE Performance (PV1 + WSE)	9.9% (2.9% + 7.0%)	7.1% (2.1% + 5.0%)	-2.8%
Weight in Perf. Adj Calculation of 24/25 winter performance (x1 or x2)	11.9%	10.6%	-1.3%

* The 24/25 data to calculate loads, temperature bins and resource performance is preliminary. For some hours, estimated values have been used.

- PJM presented the results of several sensitivities requested by stakeholders at the May 22nd ELCCSTF meeting (<https://www.pjm.com/-/media/DotCom/committees-groups/task-forces/elccstf/2025/20250522/20250522-item-02---elcc-accreditation-methodology-update-on-sensitivity-analyses---pjm-presentation.pdf>)
- The set of assumptions for Analysis #2 is almost identical to the assumptions for Analysis #1 with the only exception that preliminary 24/25 weather, load and resource performance data **is not included in Analysis #2** (it was also not included for all the other sensitivities presented at the May 22nd ELCCSTF meeting)
- In the next slide, we provide a comparison of the PJM and ODEC proposals for several metrics

Metric	PJM Proposal	ODEC Proposal	Diff
FPR	0.9595	0.9655	0.006
IRM (%)	19.7	18.9	-0.8
LOLH Winter %	79.6	68.5	-11.1
Avg. AUCAP Factor	0.8016	0.812	0.0104

- In addition, under the ODEC proposal the system becomes less tight by about 1,000 MW UCAP, consistent with the decrease in IRM.