

# Synchronized Reserve Requirement for Reliability – Update

Kevin Hatch  
Sr. Manager, Dispatch

PJM Operating Committee  
March 6, 2025  
UPDATE – May 8, 2025

## OATT Attachment K – Appendix, Section 1.7.19A(b), Page 4,210:

“The Office of the Interconnection shall obtain and maintain for each Reserve Zone and Reserve Sub-zone an amount of Primary and Synchronized Reserve equal to the respective Primary Reserve Requirement and Synchronized Reserve Requirement objectives for such Reserve Zone and Reserve Sub-zone, **as specified in the PJM Manuals.**”

***Synchronized Reserve Requirement:*** “Synchronized Reserve Requirement” shall mean the megawatts required to be maintained in a Reserve Zone or Reserve Sub-zone as Synchronized Reserve, absent any increase to account for additional reserves scheduled to address operational uncertainty. **The Synchronized Reserve Requirement is calculated in accordance with the PJM Manuals.**

PJM M13, Section 2.2 “Reserve Requirements,” Page 19:

**“PJM schedules sufficient Contingency Reserves to satisfy the Reliability First (RF) Regional Criteria.** Contingency Reserves shall not be less than the largest contingency. Contingency Reserves must be made up of at least 50% Spinning Reserves. No more than 33% of Contingency Reserves should be interruptible load. (NERC Standard BAL-002-3)”



**May 2023**

Synchronized & Primary Reserves updated to 130% of the largest unit.

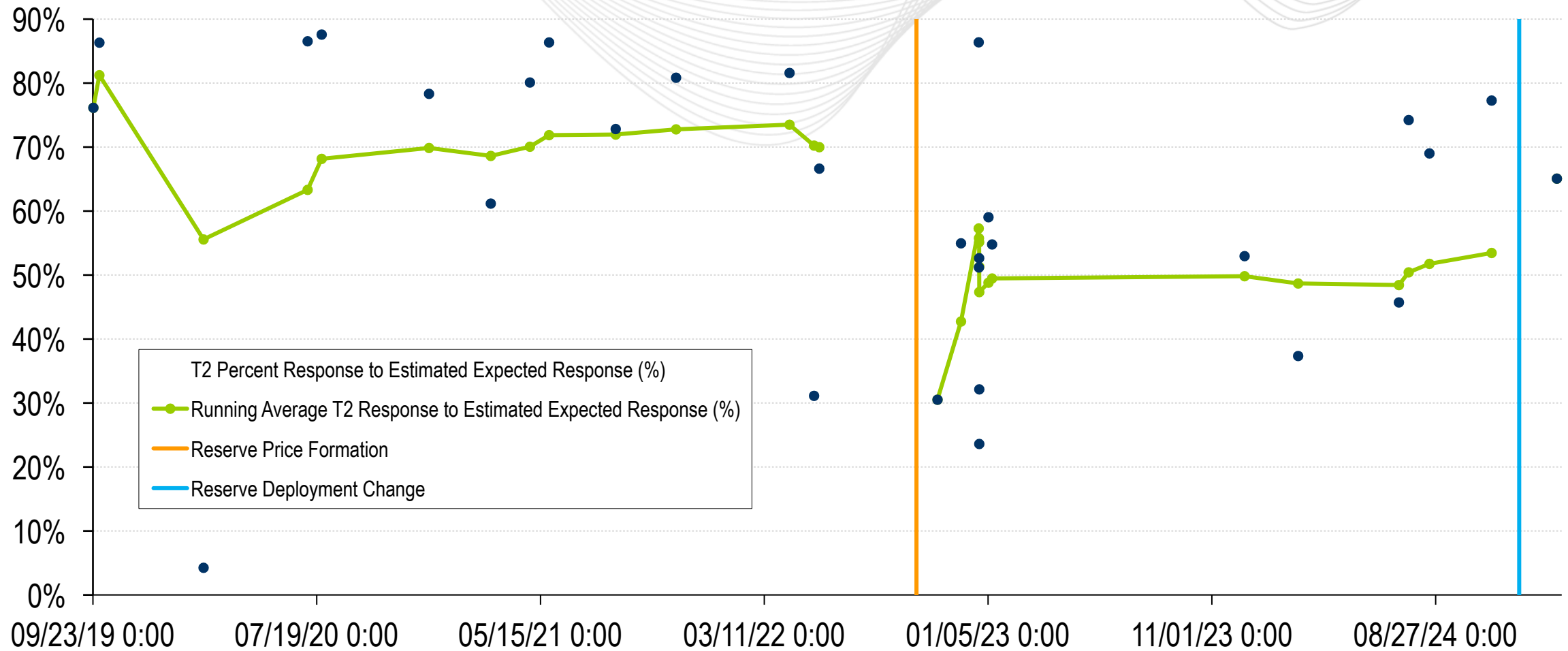


**December 2024**

Synchronized Reserve AGC code deployed.

**2025**

# Synchronized Reserve Event Performance



**Note:** Average Synchronized Reserve performance has reduced from 70% pre-price formation to 54% post-price formation implementation.

- 1 Starting Jan. 1, 2025, PJM Performance Compliance will evaluate and average performance after 3 qualifying Synchronized Reserve events
- 2 Qualifying Events will be:
  - Any Synchronized Reserve event lasting 10 minutes or more
  - Any Synchronized Reserve event (regardless of length) where the assigned reserve resources response performance is at least 75% of total assignment
- 3 Goal is to reliably reduce the 30% adder while maintaining pre-Reserve Price Formation performance of 70% (October 1, 2022) or greater.

Three averaged  
qualifying events with  
**greater than 75%  
performance**

Reduce additional reserve  
adder for Synchronized  
Reserves by 10% of the  
largest contingency.

Three averaged  
qualifying events with  
**greater than 85%  
performance**

Reduce additional reserve  
adder for Synchronized  
Reserves by 20% of the  
largest contingency.

Three averaged  
qualifying events with  
**greater than 95%  
performance**

Reduce additional reserve  
adder for Synchronized  
Reserves by 30% of the  
largest contingency.

*\*Synchronized Reserves shall not be less than 100% of largest contingency.*

*\*Primary Reserves will be adjusted as the Synchronized Reserve requirement is changed and will be set at 150% of the Synchronized Reserve Requirement*

Three averaged consecutive qualifying events with  
**lower than 70% performance**

- Increase additional reserve adder for Synchronized Reserves by 10%.
- Not to go above 130% of largest unit



## **PJM Performance Compliance will continue to provide monthly updates to the OC of Synchronized Reserve performance.**

Performance percent can be adjusted monthly; however, PJM Operations can adjust sooner if performance is poor.

Market Monitor will continue to follow up with poor performers.

PJM will notify members of any adjustment to the reserve requirements

RCSTF will evaluate design considerations for future enhancements.

# Appendix

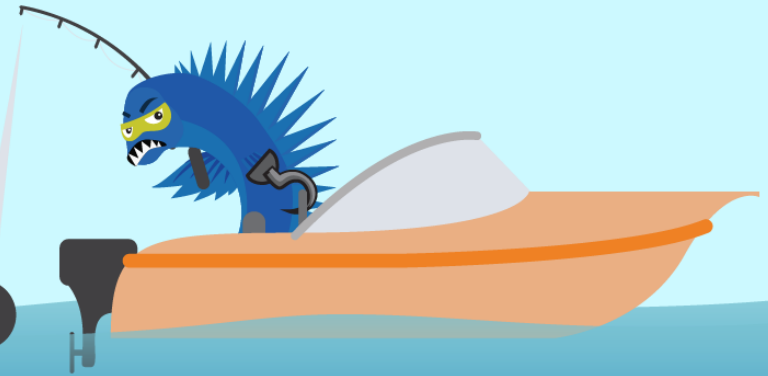
- <https://www.pjm.com/-/media/DotCom/committees-groups/committees/oc/2024/20241108/20241108-item-10---reserve-deployment-updates.pdf>

- <https://www.pjm.com/-/media/DotCom/committees-groups/committees/oc/2023/20230511/20230511-item-y---synchronized-reserve-requirement-for-reliability.pdf>

**PROTECT THE  
POWER GRID**  
**THINK BEFORE  
YOU CLICK!**



**BE ALERT TO  
MALICIOUS PHISHING  
EMAILS**



**Report suspicious email activity to PJM.**  
Call (610) 666-2244 or email [it\\_ops\\_ctr\\_shift@pjm.com](mailto:it_ops_ctr_shift@pjm.com)