RTCB Non-Spin Deployment Trigger Update

Ancillary Services and Operations Analytics
1/20/2026

Background

ERCOT previously presented [RTCBTF Non-Spin Deployment Trigger and Deployments](#) on 12/15/2025.

As a continuation of this discussion ERCOT has performed additional analysis to propose a new Non-Spin Deployment Trigger formula which:

1. Preserves the AS plan, without considering the excess Online Non-Spin procurements
2. Accounts for Non-Spin shortages, when the Non-Spin plan is not fully procured
3. Is aware of ESR State of Charge energy constraints

Recap of Non-Spin Deployment Trigger:

Pre-RTC Trigger:

- **HASL** – (GTBD + GTBD Offset) – IRR Curtailment – 30 min Net Load Ramp Forecast

Current Trigger (as of 12/10):

- **HSL – Gen AS Awards** – (GTBD + GTBD Offset) – IRR Curtailment – 30 min Net Load Ramp Forecast

ERCOT will submit an OBDRR shortly that

1. Updates the OBD to match RTC operations
2. Updates the trigger ERCOT considers for Non-Spin Deployment.

Proposed changes are discussed on the following slides.

Proposed Trigger Formula

$$(HSL_{GR=ON} + min\left(HSL_{ESR}, \frac{SOC - SOC \; for \; AS \; - \; BP * 30/60 - MNOS}{5/60 \; hours}\right))$$

Available System Capacity with SOC consideration for ESRs

$$-\left(UpASPLAN - NSPlan + NS \; Plan \; not \; covered \; by \; Thermals \; and \; Loads \; - \sum_{NCLR,CLR} RRS, ECRS, RegUpawards\right)$$

Preserve the Reg Up, RRS, ECRS Plans, and the remainder of Non-Spin Plan not covered by Thermal Resources and Load Resources

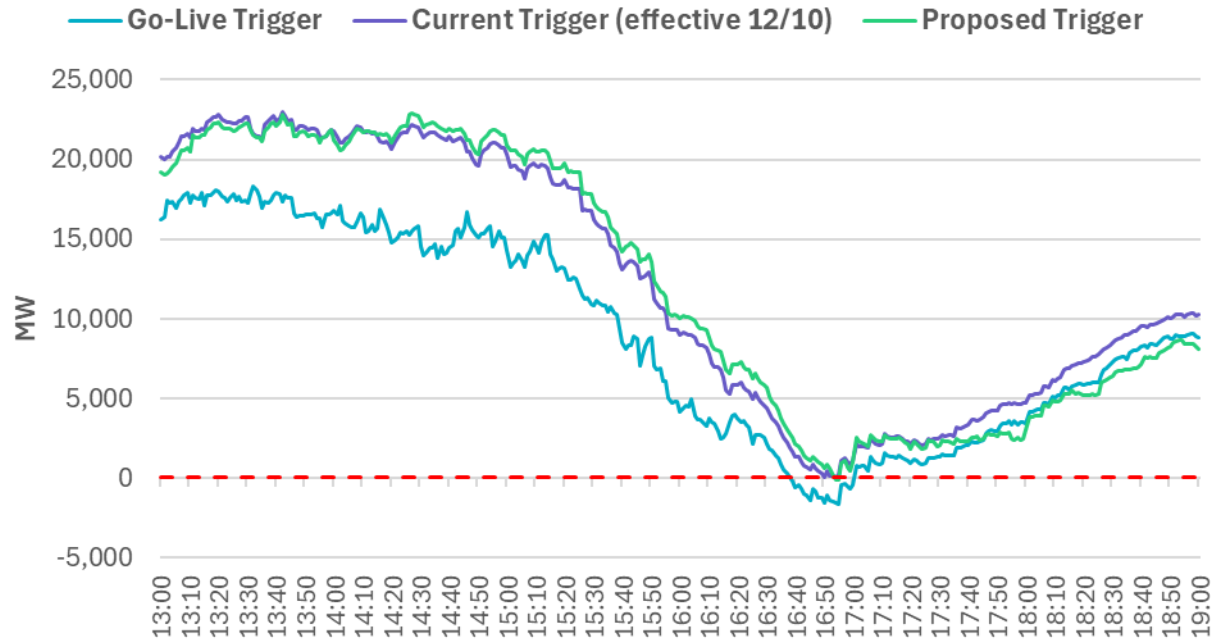Remove the RRS, ECRS and RegUp Awards covered by Load Resources

$$-(GTBD + GTBDOffset) - IRRCurtailed - LoadRamp30$$

Where:

- This calculation is performed with system level data.
- NS Plan not covered by Thermals and Loads = NSPlan – min(NSPlan, Online Thermal NS Awards + Offline Thermal NS Awards + NS Awards from Load Resources.
- SOC for AS = RRS PFR Awards * 30/60 + RRS FFR Awards * 15/60 + RegUp Awards * 30/60 + ECRS Awards * 60/60 + NS Plan not covered by Thermals and Loads * 240/60. This calculation is utilizing SCED AS Durations to account for energy required to provide AS.
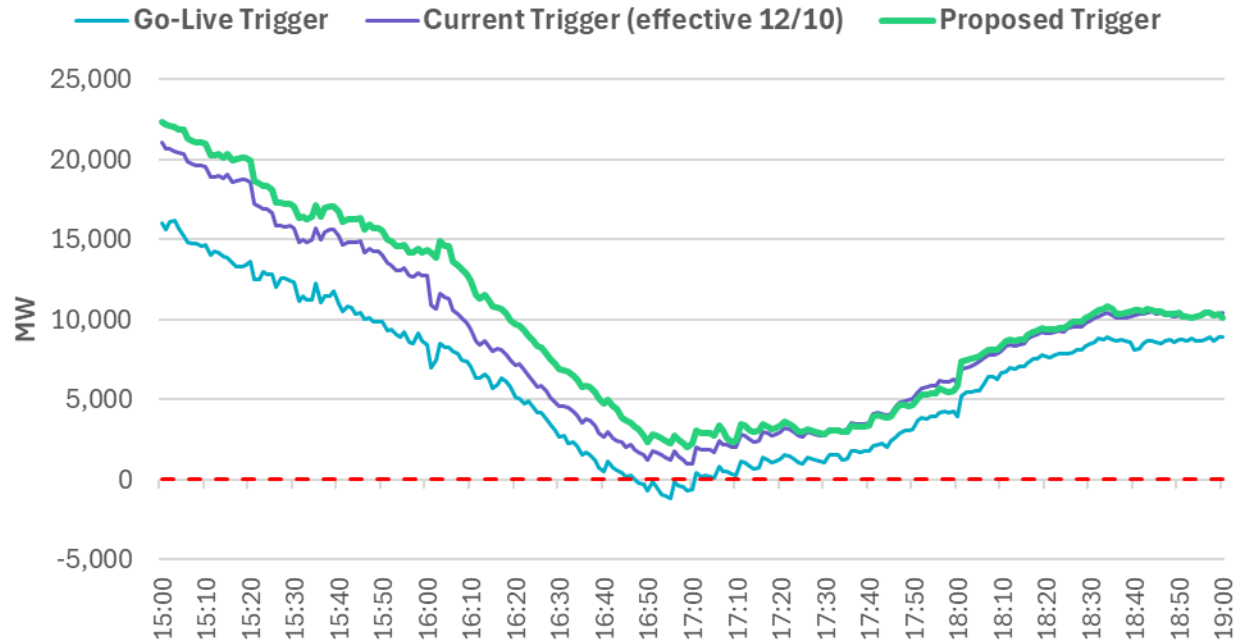
Impact on Non-Spin Deployments
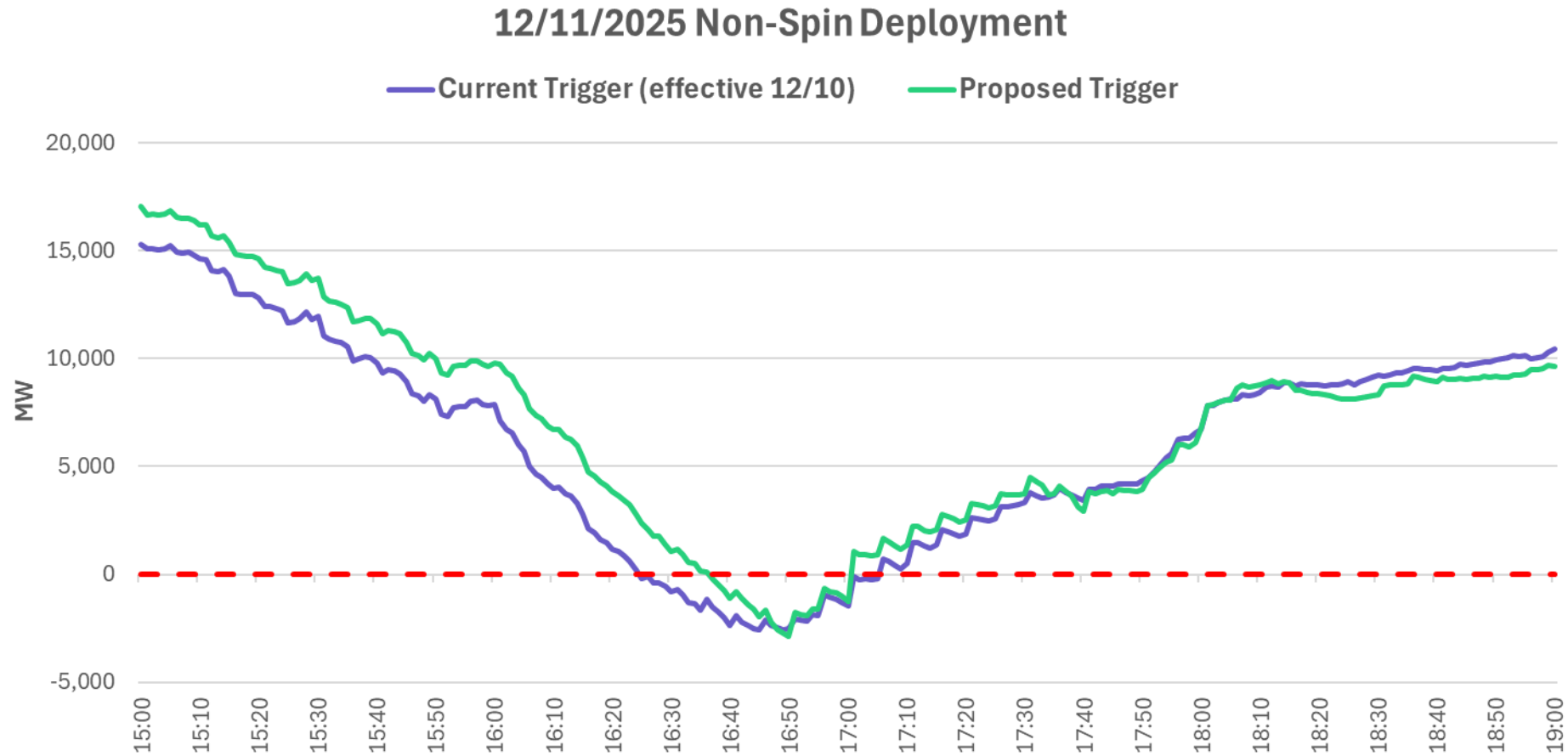
12/6/2025 Non-Spin Deployment

— Go-Live Trigger — Current Trigger (effective 12/10) — Proposed Trigger

12/8/2025 Non-Spin Deployment

— Go-Live Trigger — Current Trigger (effective 12/10) — Proposed Trigger

- Trigger was driven by under forecast of net load.
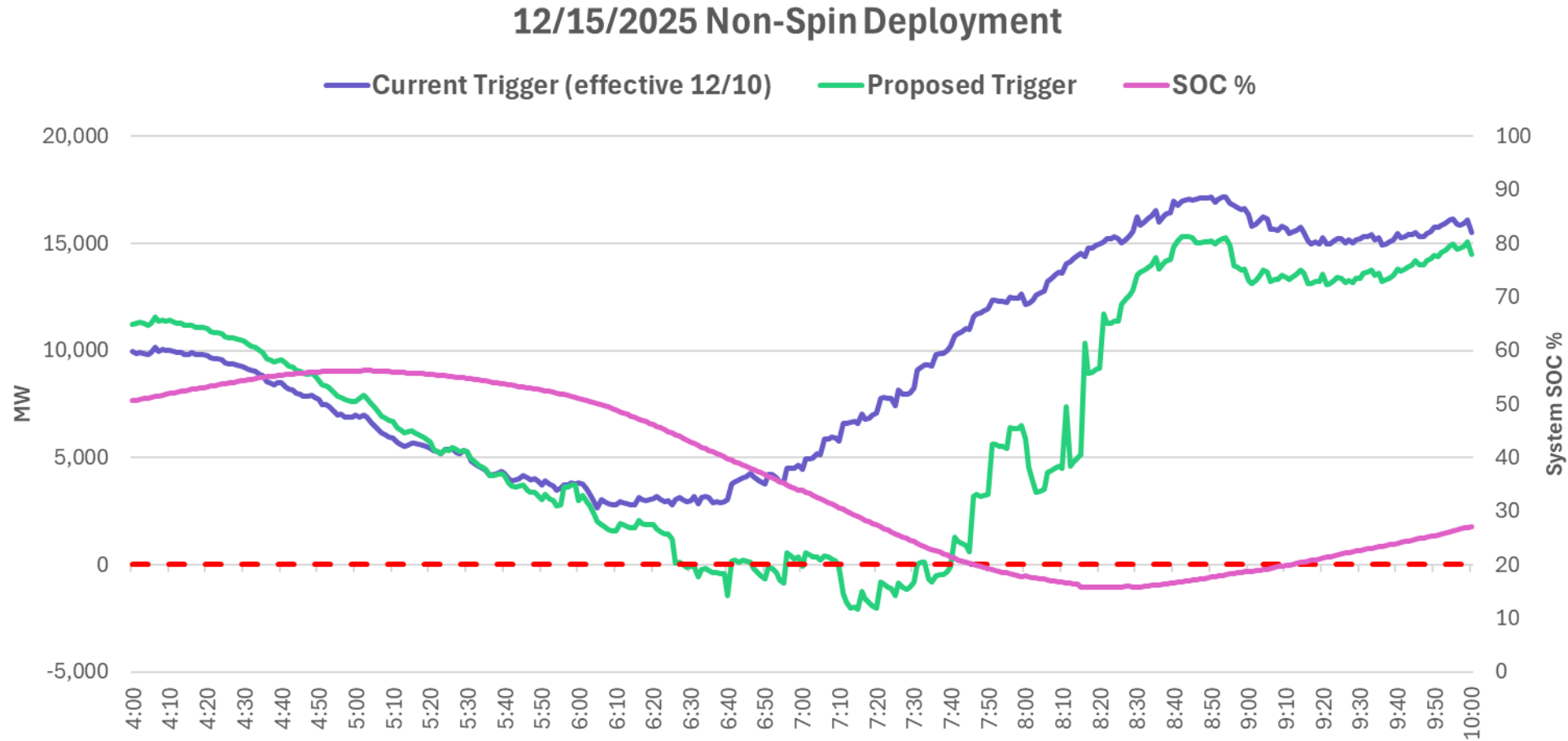- Non-Spin would have been deployed a few minutes later, under the updated Trigger.

- Non-Spin may not have been deployed on 12/8/2025 under the proposed Trigger.

Impact on Non-Spin Deployment for 12/11/2025

12/11/2025 Non-Spin Deployment

- Non-Spin would have been deployed ~ 12 minutes later under the Proposed RTC Trigger.

Impact on Non-Spin Deployment for 12/15/2025

12/15/2025 Non-Spin Deployment

- Non-Spin was not deployed under the Current Trigger.
- The Proposed Trigger would have suggested deployment due to dwindling ESR capability.

Next Steps

- ERCOT will Submit OBDRR for the Non-Spinning Reserve Deployment and Recall Procedure based on new trigger criteria discussed on these slides.

- ERCOT will look for stakeholder feedback on the analysis.

- Expected timeline for change to be effective is Summer 2026

Quesitons?