



Firm Fuel Supply Service (FFSS) Deployment Report for 2024/25 Obligation Period

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Technical Advisory Committee (TAC)
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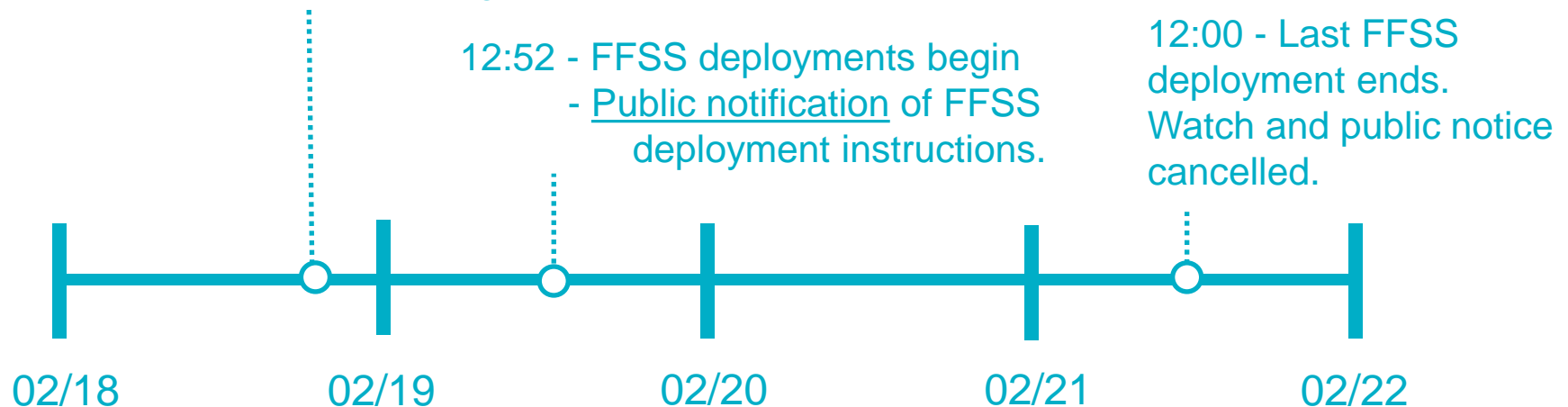
Background

- This presentation is required under Protocol 3.14.5(13):
 - *“If FFSS is deployed, then ERCOT will provide a report to the TAC or its designated subcommittee within 45 days of the end of the FFSS obligation period. The report must include the Resources deployed and the reason for any deployments.”*
- There are additional reports that will be provided later in the year, specifically a report required under 3.14.5(15):
 - *“On an annual basis after the FFSS season, ERCOT will provide a report separately for the total amounts from Section 6.6.14.1, Firm Fuel Supply Service Fuel Replacement Costs Recovery, and Section 6.6.14.2, Firm Fuel Supply Service Hourly Standby Fee Payment and Fuel Replacement Cost Recovery, to the TAC or its designated subcommittee.”*

Cold Weather Event Timeline

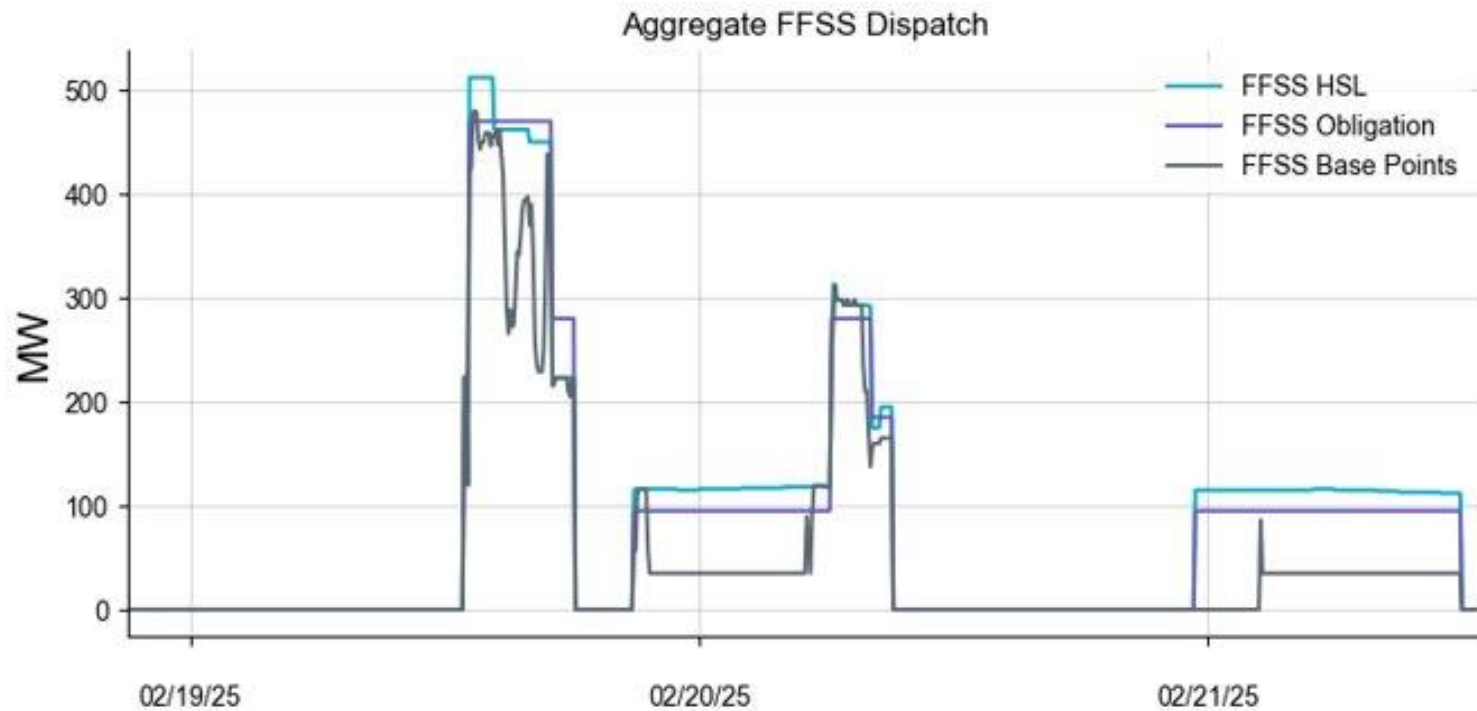
- During the 2024/25 FFSS obligation period, one Winter Watch from 02/18 21:00 to 02/21 12:00 resulted in the deployment of FFSS
 - There were two additional watches during the obligation period that did not result in FFSS deployments (01/06-01/10 and 01/19-01/22)
- Leading up to this cold weather event, ERCOT was informed of gas supply restrictions impacting generating resources
 - This resulted in the decision to deploy FFSS resources

21:00 - Watch begins due to forecasted cold weather event from 02/18 through 02/21.



Summary of FFSS Deployments

Resources Deployed	Maximum FFSS Capacity Obligation	Maximum Total HSL	Maximum Total Base Point
4	470 MW	512 MW	479.9 MW

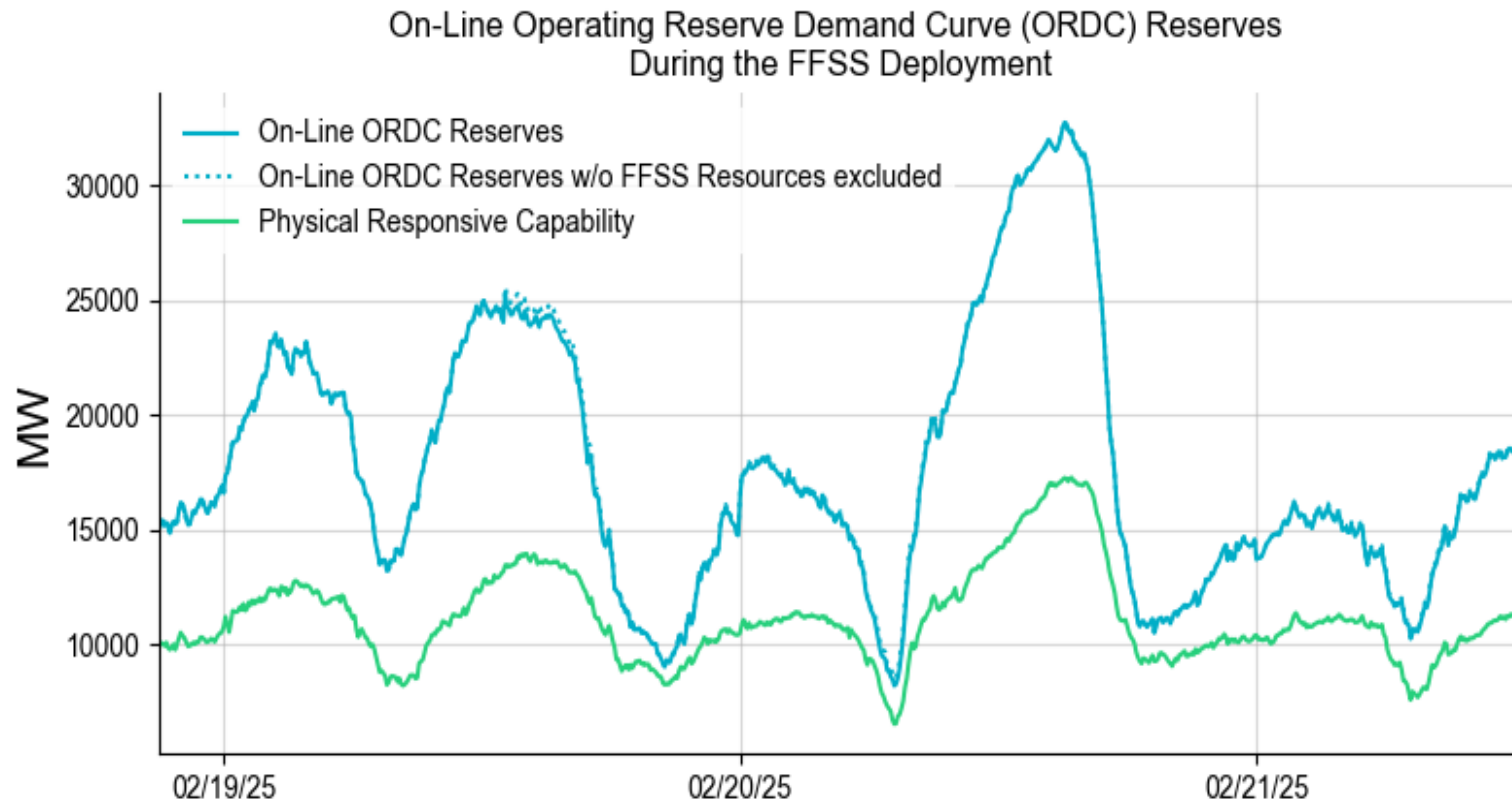


Deployment Details

Initial Notification Time for Deployment	Resource Name	Deployment Start	Deployment End	Reason
2025-02-19 12:51:13	MIL_MILLERG4	2025-02-19 12:52:00	2025-02-19 17:02:00	Capacity
2025-02-19 12:52:29	MIL_MILLERG5	2025-02-19 12:53:00	2025-02-19 17:02:00	Capacity
2025-02-19 13:08:29	MIL_MILLERG2	2025-02-19 13:09:00	2025-02-19 18:10:00	Capacity
2025-02-19 13:09:49	MIL_MILLERG3	2025-02-19 13:10:00	2025-02-19 18:10:00	Capacity
2025-02-19 20:52:45	MIL_MILLERG4	2025-02-19 20:53:00	2025-02-20 08:07:00	Capacity
2025-02-20 06:14:00	MIL_MILLERG3	2025-02-20 06:14:00	2025-02-20 09:08:00	Capacity
2025-02-20 23:21:35	MIL_MILLERG4	2025-02-20 23:23:00	2025-02-21 12:00:00	Capacity

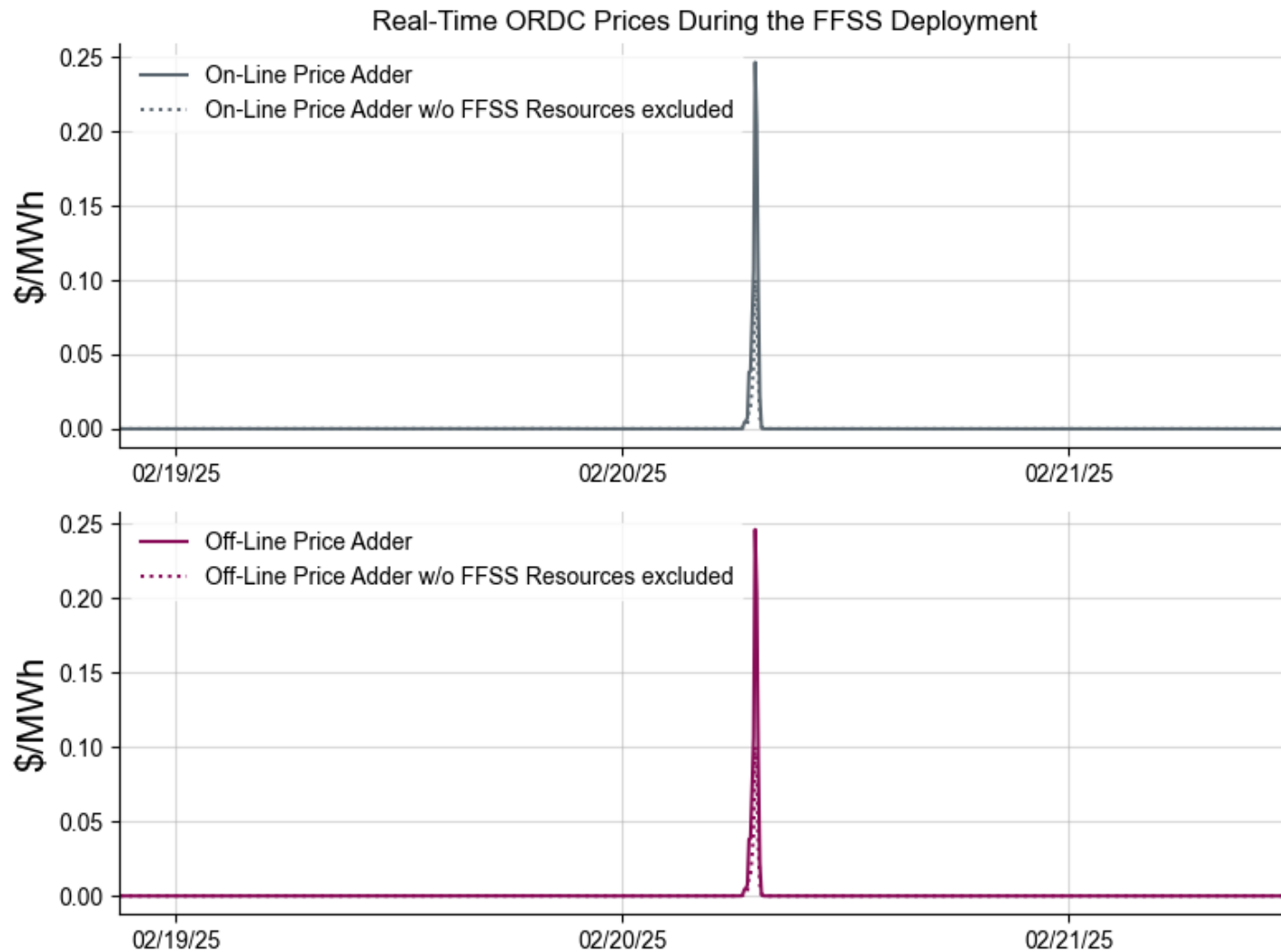
- These deployments were issued through multiple Verbal Dispatch Instructions (VDIs), spanning three Operating Days.

Real-Time Reserves and Pricing during the FFSS Deployment



The High Sustained Limit (HSL) of Resources deployed for FFSS is excluded from the On-Line ORDC reserves.

Real-Time Reserves and Pricing during the FFSS Deployment



Issues Identified During the Obligation Period

- Performance issues during the Winter Watch were identified by ERCOT staff:
 - 1 FFSSR failed to come online
 - Failure occurred during FFSSR deployment from 02/20 23:25 to 02/21 02:30 and involved unplanned mechanical issues that were not fuel-related nor caused by the cold weather
 - 2 FFSSRs failed to telemeter an average HSL greater than 95% of FFSS award
 - Failures occurred during FFSSR deployment on 2/19 due to fuel-related issues
 - 3 FFSSRs were unavailable for deployment
 - One FFSSR tripped offline during the Winter Watch on 01/07 and was unavailable for deployment for about 1 hour
 - One FFSSR tripped offline during the Winter Watch on 01/10 and was unavailable for deployment for about 3 hours
 - One FFSSR was unavailable for deployment for the entire 02/18-02/21 Watch
 - These 3 FFSSRs were not being deployed for FFSS while unavailable

FFSS Current NPRRs

- [NPRR1251](#), **Updated FFSS Fuel Replacement Costs Recovery Process** modified the QSE fuel restocking process and methods for calculating fuel replacement costs
 - Approved by PUCT 3/13/25
 - There were no fuel restocking requests during the 2024/2025 FFSS obligation period.
- [NPRR1241](#), **Firm Fuel Supply Service Availability and Hourly Standby Fee** would introduce a linear curve formula to the calculation of hourly standby fee clawbacks during a Watch for winter weather
 - Received board approval 4/8/25. Pending PUCT consideration
- [NPRR1275](#), **Expansion of Qualifying Pipeline Definition for Firm Fuel Supply Service in Phase 3** would adopt expanded definition of FFSS Qualifying Pipeline to include natural gas resources which meet certain qualifying conditions for reliable fuel delivery
 - ERCOT-sponsored revision request with a goal of approval by the PUC prior to the upcoming FFSS Request for Proposal (RFP) issuance in August 2025; currently tabled at PRS
- [NPRR1281](#), **Improvements to Alternate FFSS Resource Designation** proposes to clarify the inputs to the calculation of the Firm Fuel Supply Service Standby Fee, specifically the Hourly Rolling Equivalent Availability Factor.
 - LCRA-sponsored revision request submitted on 4/16/25.

Next Steps

- ERCOT is working directly with QSEs to understand the nature of issues observed during the obligation period and identify potential remedies, if any.
- A subsequent report on FFSS fuel replacement costs from this separately for the total amounts from Section 6.6.14.1, Firm Fuel Supply Service Fuel Replacement Costs Recovery, and Section 6.6.14.2, Firm Fuel Supply Service Hourly Standby Fee Payment and Fuel Replacement Cost Recovery
- The PUC is expected to provide additional guidance regarding desired procurement quantities, procurement mechanisms, and the desired level of reliability in advance of the upcoming 2025/26 FFSS contract period.