



PUBLIC

Item 10: Real-Time Co-optimization Update

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Board of Directors Meeting

December 8-9, 2025

- **Purpose**
Provide status on the implementation of Real-Time Co-optimization plus Batteries (RTC+B) Program for December 5, 2025.
(Note: Posting Board materials ahead of go-live with placeholders for updates immediately prior to meeting)
- **Voting Items / Questions for the Board**
No action is requested of the ERCOT Board; for discussion only

Key Takeaway(s)

- October/November trials/readiness activities completed successfully, including Oct 30 production test
- Status of go-live for December 5, 2025 *(TBD)*
- Stabilization of RTC+B (near-term and long-term)

Agenda

	Update for RTC+B Program includes
1	RTC+B Task Force and Market Trials summary since Sept Board
2	Go-Live Cutover Update (TBD)
3	Stabilization and Next Steps

RTC+B is most significant market design change since 2010 (zonal to nodal) and requires extended market trials ensure collective success and reliability for Real-Time Market and dispatch.



RTC+B Task Force Update

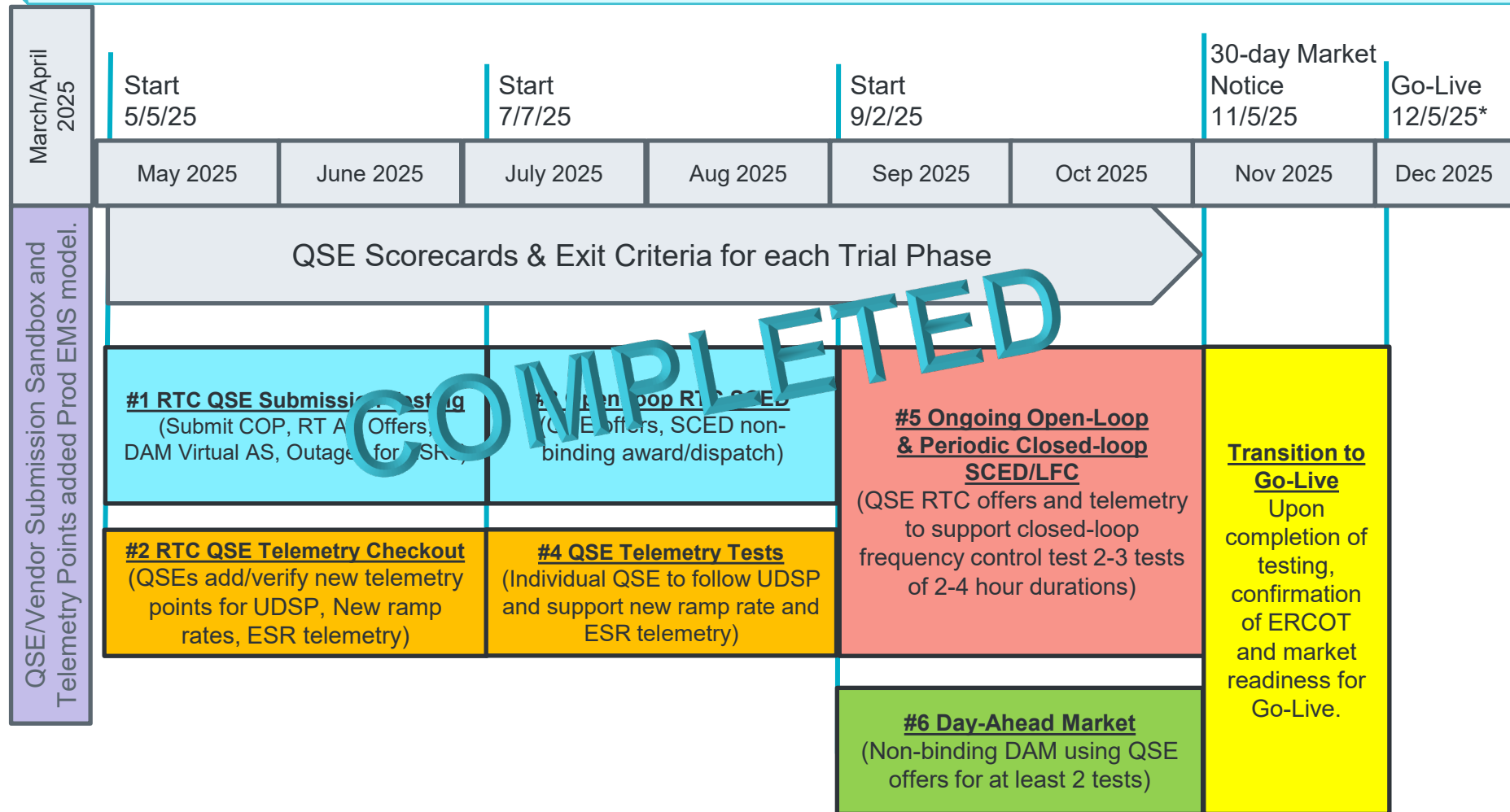
Policy issues and Readiness activities completed for Go-Live on time

Issue to resolve	Protocol needed?	Approval level	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25
Parameters for Ancillary Service proxy offers NPRR1269	Yes	PUCT	BOARD	PUC					
Scaling Factor Values for RegUp/RegDown - NPRR1269	Yes	PUCT	BOARD	PUC					
ASDCs for use in Reliability Unit Commitment (RUC) studies- NPRR1269	Yes	PUCT	BOARD	PUC					
RTC SOC/AS duration parameter discussion- NPRR1282/NOGRR277	Yes	PUCT			BOARD	PUC			
Clean-up Revision Requests to address as-builts and clarifications, as needed- NPRR1290/NOGRR278	Yes	PUCT						BOARD	PUC
RTC Simulator Analysis for periodic analysis comparing RTC and the current ORDC design – KP 1.1(8)									
- Historical Operating Days identified by RTCBTF	N/A	N/A							
- Additional review of transmission constraint max. shadow price values (Sec 22/per NPRR1211)									
- Review of AS Demand Curve in context of current policy- NPRR1268									
- Consider AS Indifference									
Market Readiness									
- Release Market Trials Sequence and Potential Date (review 2024)									
- RTC+B Technical Workshops and release interface specifications (June 2024)									
- Explanation of ICCP Changes (Abhi G. Masanna- May RTCBTF)									
- Explanation of Market Submission (Nathan Smith- August RTCBTF)									
- Release and review Market Trials Plan with RTCBTF (TAC endorsed October 2024)	No	TAC							
- Execute QSE Attestation (completed August 2024)									
- Announce Planned Go-Live Date (September 2024)									
- Outline of Readiness Training modules									
- Delivery of Training modules to RTCBTF Training page					Complete				
- Market Trials Handbooks for 5/5/25 Trials (Market Submission and Telemetry Check-out)									
- Market Trials Handbook for 7/7/25 Trials (OpenLoop SCED and QSE Telemetry Testing)			Complete						
- Market Trials Handbook for 9/2/25 Trials (Closed-Loop Test and Day-Ahead Market)				Complete					
- Annual Operations Training Seminar (6-weeks)			Complete						
- Go-Live Transition/Cutover Plan						earlier			Posted
- Any protocol and/or PUCT waivers needed for market trials and/or transition to Go-Live						earlier			None
- RTCBTF issues- a. Operation Procedures (e.g., removing SASM and HASL/LASL), note to include any needed discussion on triggers for initiating off-cycle SCED execution, b. Business Practice Manuals (e.g., changes to COP and telemetry), c. Market trials/training/annual seminar engagement (release plans/dates for market trials), d. Any details MPs need for designing their control systems									



RTC+B Market Trial Progression

Market trials are a progression of activities to mitigate the risk for Go-Live on new systems and processes for both the Market Participants & ERCOT.



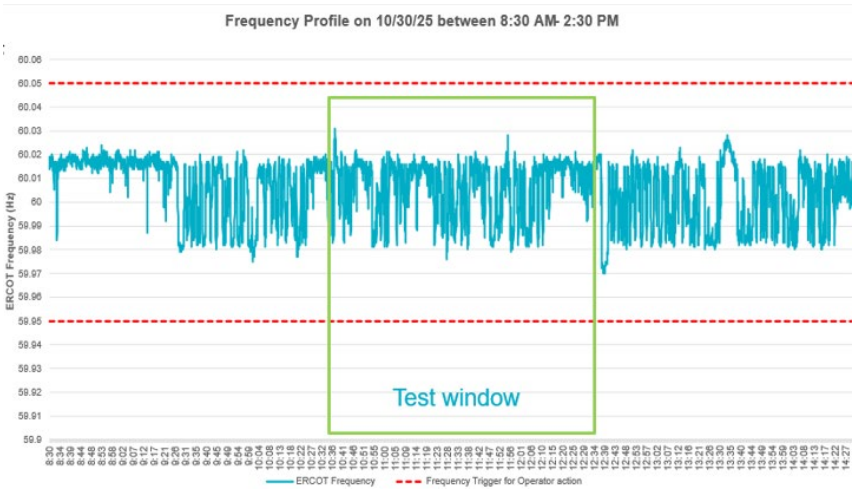
* Go-Live date reflects 12/5/2025 as first Operating Day where 12/4/2025 is planned software migration.



Key activities leading up to Go-Live

ERCOT successfully conducted the second/final RTC+B Production Tests on Oct 30, 2025 from 10:35am-12:35pm to manage the Real-Time Market and Load Frequency Control systems:

- Frequency control was improved, QSE performance improved, and no new issues during test



November	9	10 TrialCall	11 DAM run for OD Nov 12	12 SCED OD NCLR s/provide	13 RTCBTF MEETING & Cutover Workshops	14	15
	16	17 TrialCall	18 DAM run for OD Nov 19	19 SCED OD NCLR s/provide	20	21 Go-Live Market Notice	22
	23	24 TrialCall	25	26	27 Thanksgiving Holiday	28 Thanksgiving Holiday	29
	SUN	MON	TUE	WED	TH	FR	SAT
December	Nov 30	1 TrialCall	2 TrialCall	3 TrialCall	4 TrialCall CUTOVER	5 TrialCall CUTOVER	6
	7	8 TrialCall Stabilization	9	10	11	12	13
	14	15 TrialCall Stabilization	16	17	18	19	20

Multiple November Cutover Workshops
Weekly Market Calls through Thanksgiving
Daily cutover calls during Go-Live week



Cutover Summary

Update Board materials prior to meeting

TBD



System Operations Summary (first 48-hours)

Update Board materials prior to meeting

TBD



Market Operations Summary (first 48-hours)

Update Board materials prior to meeting

TBD



Next Steps: Stabilization & Transition to normal processes

From Program perspective

- ERCOT filing protocol violations and corresponding mitigation plans with PUCT (currently 4 identified)
- Next 2 weeks are critical for emergency fixes to stabilize systems
- First few months of 2026 will include multiple releases for remaining non-critical defects

From Stakeholder perspective

- ERCOT to sponsor any urgent NPRRs for gaps identified (coordinate with RTCBTF in December/January)
- Coordinate and vet the key RTCBTF issues to transition to TAC (Ancillary Service Deployment Factors, Ancillary Service Demand Curves, and other important issues to monitor)
- Sunset RTCBTF in 1Q2026

ERCOT appreciates the unified support of the PUCT, Board, TAC, and stakeholder community on this large program implementation

