

Item 6.3: Real-Time Co-optimization Update –REVISED*

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Senior Director, Market Operations and Implementation

Board of Directors Meeting

ERCOT Public June 23-24, 2025

Real-Time Co-optimization (RTC) Update

Outline of Update for Board:

- Program Update
- RTC+B Task Force Update
- Market Readiness Update
 - Market Trials Definitions
 - Market Trials Scorecards
- Market Design Pause and Re-prioritization

Key Takeaway(s)

- RTC+B Program continues to move forward on schedule.
- ERCOT working closely with Market Participants to minimize go-live risk:
 - Board being asked to consider final Revision Requests for go-live
 - Weekly RTC+B Market Trials are in-flight with Scorecards
- Collaborating on how to re-prioritize backlog of design changes after RTC+B



RTCBTF Remaining Items for Go-Live

- Board- NPRR1282/NOGRR277 (June) and final Clean-Up NPRR1290 (September)
- RTCBTF- Completing handbooks and training review, and initiating transition plan details

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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	Yes	PUCT						Board	
RTC Simulator Analysis for periodic analysis comparing RTC and the current ORDC design – KP 1.1(8) - Historical Operating Days identified by RTCBTF - 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	N/A	N/A							
Market Readiness									
- Release Market Trials Sequence and Potential Dates (May 2024)						Market	Trials		
- RTC+B Technical Workshops and release interface specifications (May-June 2024)									
Explanation of ICCP Changes (Abhi Gari 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									
- 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)									
- Annual Operations Training Seminar (6-weeks)			Complete						
- Go-Live Transition Plan						earlier			
- Any protocol and/or PUCT waivers needed for market trials and/or transition to Go-Live						earlier			



RTC+B Scope

Final 2025 Refinements for Go-Live

> Related **NPRRs** within Program

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Item 6.3

	RTC+B Program Scope for delivery (as of 6/9/2025)							
Revision Request	Status	RTC+B Program revisions	Description	Reason				
NPRR1007	Approved	ALL	RTC	RTC Foundation				
NPRR1008	Approved	ALL	RTC	RTC Foundation				
NPRR1009	Approved	ALL	RTC	RTC Foundation				
NPRR1010	Approved	ALL	RTC	RTC Foundation				
NPRR1011	Approved	ALL	RTC	RTC Foundation				
NPRR1012	Approved	ALL	RTC	RTC Foundation				
NPRR1013	Approved	ALL	RTC	RTC Foundation				
NOGRR211	Approved	ALL	RTC- Op Guide 2 and 9	RTC Foundation				
OBDRR020	Approved	ALL	RTC- Setting Shadow Price	RTC Foundation				
NPRR1014	Approved	ALL	Single Model	Battery Foundation				
NPRR1204	Approved	ALL	RTC- State of Charge for SCED/RUC	RTC+B Supplemental				
NPRR1236	Approved	ALL	RTC- RUC Capacity Short	RTC+B Supplemental				
NPRR1245	Approved	ALL	RTC- Clarification	RTC+B Clarifications				
NPRR1246	Approved	ALL	Single Model- Clarification	RTC+B Clarifications				
NOGRR268	Approved	ALL	Single Model- Clarification	RTC+B Clarifications				
PGRR118	Approved	ALL	Single Model- Clarification	RTC+B Clarifications				
OBDR052	Approved	ALL	Single Model- Clarification	RTC+B Clarifications				
NPRR1268	Approved	ALL	AS Demand Curve re-shaped	RTC+B Supplemental				
NPRR1269	Approved	ALL	Proxy offers and ASDC Floor	RTC+B Supplemental				
NPRR1270	Approved	ALL	AS Qualification clarification	RTC+B Supplemental				
NPRR1282	June Board	ALL	AS Duration related to State of Charge	RTC+B Supplemental				
NOGRR277	June Board	ALL	AS Duration related to State of Charge	RTC+B Supplemental				
NPRR1290	Sep Board	ALL	Final clarifications and close any gaps	RTC+B Supplemental				
NOGRR-TBD	Sep Board	ALL	Final clarifications and close any gaps	RTC+B Supplemental				
VCMRR044	Sep Board	ALL	Clarification of Hydro mitigation per KP1.4	RTC+B Supplemental				
NPRR1000	Approved	ALL	Remove Dynamically Scheduled Resources	Efficiency				
NPRR1054	Approved	(no gray box)	Remove Oklaunion Exemption settlement	Efficiency				
NPRR1172	Approved	5.7.2(2)&(4)- RUC Clawback	S&B Portion of NPRR1172 RUC ClawBack	Efficiency				
NPRR963	Approved	6.6.5.5 6.6.5.5.1 6.6.5.6	NPRR1014 was written on top of the NPRR963 greyboxes for Set Point Deviation changes. In order to appropriately implement these changes for ESRs, need some of the language from NPRR963.	Dependency for NPRR1014				
NPRR1029	Approved	25.5.2 25.5.5 25.5.6	Only Sections 25.5.2, 25.5.5, 25.5.6 for Market Suspension for ESRs	Dependency for NPRR1014				
NPRR1058	Approved	4.4.9.3 6.6.9	Adapting requirements for Market Submission required field and locking the Energy Offer Curve for Emergency Settlements	Implementing in current system August 2024				
NPRR1257	Approved	ALL	New requirement in current system for limiting Responsive Reserve awards	Changes to be coded into RTC+B				

Summary of RTC+B Internal Program

- Program highlights:
 - Received final deliveries of vendor code (on time May 13, 2025)
 - Completed two Operating Day tests (March 25 and May 14 Operating Days)
 - End-to-end test of systems and integration
 - Identifying issues to be resolved well ahead of go-live
 - Deployed Market Trials environment weeks ahead of May 5, 2025 start date
 - First round of defects found in market trials fixed and redeployed on May 28, 2025
 - Registration production system upgraded and deployed with RTC+B changes
 - Delivered RTC+B Training at 6-week Operator Training Seminars (800+ Operators)
 - Recent NPRR1268, 1269, 1270 approved changes already coded and in testing
 - Currently on-time and under budget (more details in T&S RTC+B presentation)



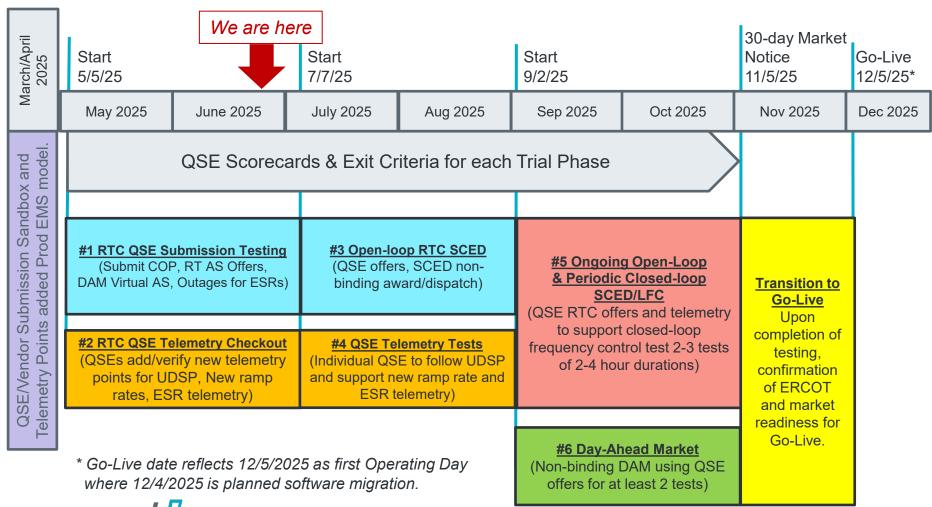
Summary of RTCBTF Activities

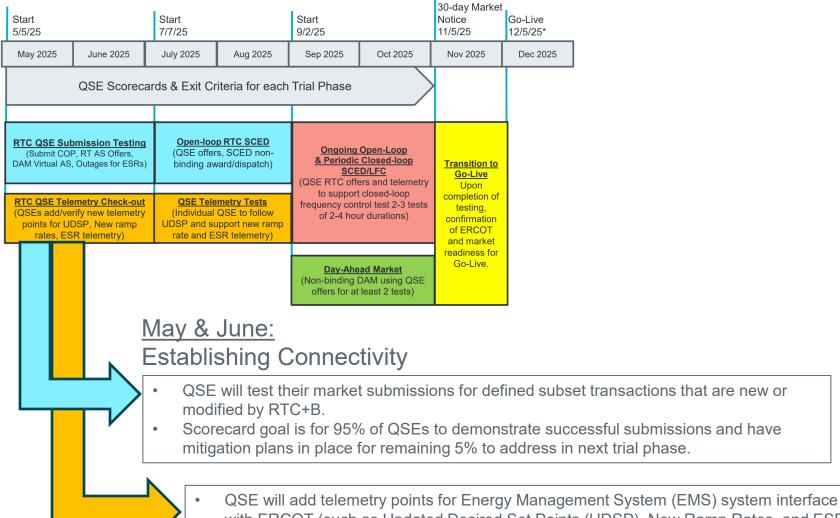
- Review and TAC approval of NPRR1282/NOGRR277 for June Board
 - Policy decision of RTC+B Ancillary Service duration
- Review of final clarifying NPRR1290 for Sept Board
 - Gaps, protocol alignment, and/or clarifications
- Market Readiness Materials (on-schedule)
 - Complete Handbook #5- Closed-Loop Load Frequency Control Testing
 - Complete Handbook #6- Day-Ahead Market Testing
 - Beginning work on Transition Plan Handbook for July RTCBTF
- New training modules being posted by end of June
 - Operations Training / Day-Ahead Market Training / Battery Training
 - Demand Response Training / RTC-Simulator Spreadsheet Walkthrough
- Weekly Market Trials began May 5, 2025 with Connectivity Testing
 - Explanation and Scorecards to follow



Sequence and Dates for Market Trials to Go-Live

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.

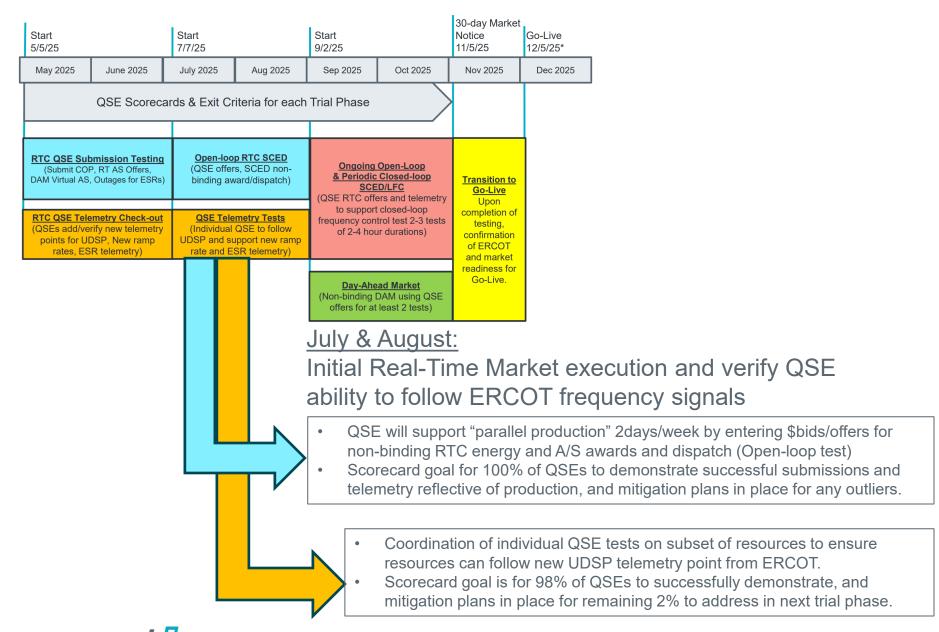


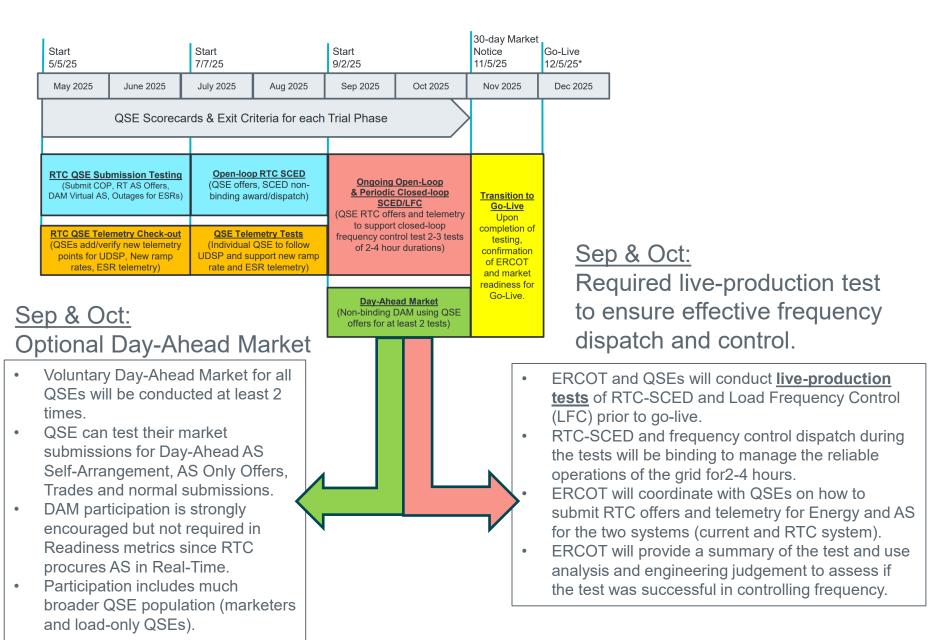




• Scorecard goal is for 98% of QSEs to demonstrate successful telemetry additions, and mitigation plans in place for remaining 2% to address in next trial phase. (Note 3-week lag in telemetry migrating through network model validation and into trials environment).









RTC+B Current QSE Scorecards

 The following 3 slides are the Scorecards as of June 23, 2025 for the May/June Connectivity Testing



Scorecard 1 for Handbook 1- Market submissions:

6/23 Scores for QSEs with Resources – successful submissions for resource types specified in Handbook 1

Scoring:

	G	Submitted all required submission
	u	types for owned resources
	v	Submitted some submission types for
	T	owned resources
		Submission types for owned resources
R	K	not yet received by ERCOT

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AMA QSE LLC	G		G	G	G	G			G
AMERICAN ELECTRIC POWER SERVICE COR		G					G	G	
AVANGRID RENEWABLES LLC		G					G	G	
BHER POWER RESOURCES INC		G					G	G	
BOSTON ENERGY TRADING AND MARKETING	G	G		G	G	G	G	G	
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Market Trials HB#1 Submissions Scorecard: QSE with active Resources IP RADIAN LLC IP RADIAN LLC JUPITER POWER ENERGY MANAGEMENT LL G JUPITER POWER ENERGY MANAGEMENT LL G JUPITER POWER ENERGY MANAGEMENT LL G JUPITER POWER FUNDING LLC LINEBACKER POWER FUNDING LLC LOWER COLORADO RIVER AUTHORITY G G G G G G G G G G G G G G G G G G G		Crorora	Scoreca rd Flag			ESR		GEN		LOAD
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SHELL ENERGY NORTH AMERICA (US) LP		Н		Н	Н			_	-	
SOUTH PLAINS WIND ENERGY LLC (QSE) G		G	-	Н	G	G	G	-	-	
SOUTH TEXAS ELECTRIC CO OP INC G G G G G G G G G G G G G G G G G G G		Ė	-		Ė	Ē	Ė	_	-	
SOUTHERN POWER COMPANY 6		G	_	G	G	G	G	_	-	G
STANTON WIND ENERGY LLC			-	_	_	_		_	-	_
SUSTAINING POWER SOLUTIONS LLC G <td< td=""><td></td><td>Н</td><td><u> </u></td><td>Н</td><td>Н</td><td></td><td>Н</td><td><u> </u></td><td>_</td><td>_</td></td<>		Н	<u> </u>	Н	Н		Н	<u> </u>	_	_
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TURKEY TRACK WIND ENERGY LLC G				Ť	_			_		
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VOLTUS INC G G			Ť		_	_	-	Ė	Ħ	
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	WAKE WIND ENERGY LLC		G	Ť				G	G	



Scorecard 2A for Handbook 2-

100% of ICCP Telemetry points added by QSE:

6/23 Scores for QSE with Resources - ICCP Telemetry points added in current model.

Scoring:

G		All ICCP Telemetry points in current
d	ď	Market Trials model
	v	Some ICCP Telemetry points in current
Y		Market Trials model
	R	No ICCP Telemetry points in current
		Market Trials model

Scorecard for HB2:QSE with active Resources - ICCP Telemetry	IP RADIAN LLC
AE TELVIEW ESS LLC	JUPITER POWER ENERGY MANAGEMENT LLC
AES INTEGRATED ENERGY LLC	LINEBACKER POWER FUNDING LLC
AMA QSE LLC	LOWER COLORADO RIVER AUTHORITY
AMERICAN ELECTRIC POWER SERVICE CORP	LUMINANT ENERGY COMPANY LLC
AVANGRID RENEWABLES LLC	MCADOO WIND ENERGY LLC
BHER POWER RESOURCES INC	MERCURIA ENERGY AMERICA LLC
BOSTON ENERGY TRADING AND MARKETING LLC	MIAMI WIND I LLC
BP ENERGY RETAIL COMPANY LLC	MITSUI AND CO ENERGY MARKETING AND SERVICES (USA) INC.
BTU	MP2 ENERGY LLC
BULL CREEK WIND LLC	MP2 ENERGY TEXAS LLC DBA SHELL ENERGY SOLUTIONS
CALPINE POWER MANAGEMENT LLC	MP2 MESQUITE CREEK WIND LLC
CITY OF AUSTIN DBA AUSTIN ENERGY	NEXTERA ENERGY MARKETING LLC
CITY OF GARLAND	NG RENEWABLES ENERGY SERVICES LLC
CONSTELLATION ENERGY GENERATION LLC	NRG TEXAS POWER LLC
CPS ENERGY	NUENERGEN LLC
CWP ENERGY INC	OCCIDENTAL POWER SERVICES INC
DELILAH SOLAR ENERGY II LLC	OCTOPUS ENERGY LLC
DELILAH SOLAR ENERGY LLC	PATTERN ENERGY MANAGEMENT SERVICES LLC
DENTON MUNICIPAL ELECTRIC	PERFECT POWER LLC
DERIVA ENERGY SERVICES LLC	PRIORITY POWER MANAGEMENT LLC
DIRECT ENERGY LP	PROLOGIS ENERGY LLC
EDF NORTH AMERICA	RATTLESNAKE WIND I LLC
ENEL TRADING NORTH AMERICA LLC	RAYBURN COUNTRY ELECTRIC COOPERATIVE INC
ENEL X NORTH AMERICA INC	RIESEL HOLDCO LLC
ENERWISE GLOBAL TECHNOLOGIES LLC	RWE CLEAN ENERGY QSE LLC
ENGIE ENERGY MARKETING NA INC	SAMSON SOLAR ENERGY II LLC
ESV ENERGY MANAGEMENT LLC (QSE)	SAMSON SOLAR ENERGY III LLC
ETC ENDURE ENERGY LLC	SAMSON SOLAR ENERGY LLC
FORMOSA UTILITY VENTURE LTD	SANDY CREEK ENERGY ASSOCIATES LP
GALT POWER INC	SANTA RITA EAST WIND ENERGY LLC
GERDAU AMERISTEEL ENERGY INC	SANTA RITA WIND ENERGY LLC
GEUS	SCURRY COUNTY WIND II LLC
GEXA ENERGY LP	SCURRY COUNTY WIND LP
GOLDEN SPREAD ELECTRIC COOPERATIVE INC	SHELL ENERGY NORTH AMERICA (US) LP
GOLDTHWAITE WIND ENERGY LLC	SOUTH PLAINS WIND ENERGY LLC (QSE)
GRIDBEYOND LLC	SOUTH TEXAS ELECTRIC CO OP INC
GRIDMATIC EQUISETUM LLC (SQ4)	SOUTHERN POWER COMPANY
GUIDEPOST ENERGY LLC	STANTON WIND ENERGY LLC
GUNSIGHT MOUNTAIN WIND ENERGY LLC	SUSTAINING POWER SOLUTIONS LLC
HABITAT ENERGY INC	TENASKA POWER SERVICES CO
HEI1 INC	TOTALENERGIES GAS AND POWER NORTH AMERICA INC
HEI3 INC	TURKEY TRACK WIND ENERGY LLC
HEI4 INC	TYR ENERGY LLC
HEN POWER MARKETING LLC	UMBRA ASSET MANAGEMENT LLC
IP LUMINA II LLC	VOLTUS INC
IP LUMINA LLC	WAKE WIND ENERGY LLC
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Scorecard 2B for Handbook 2-

Telemetry checkout meetings completed with ERCOT staff for sample of live data transfer capability

6/23 Scores for QSEs with Resources – Scheduling Check-out and Check-out complete

G	Checkedout manually/PI Tags
Y	Scheduled but not checked out
R	Not scheduled or Checked out

QSE with active Resources
AE TELVIEW ESS LLC
AES INTEGRATED ENERGY LLC
AMA QSE LLC
AMERICAN ELECTRIC POWER SERVICE CORP
AVANGRID RENEWABLES LLC
BHER POWER RESOURCES INC
BOSTON ENERGY TRADING AND MARKETING LLC
BP ENERGY RETAIL COMPANY LLC
BTU
BULL CREEK WIND LLC
CALPINE POWER MANAGEMENT LLC
CITY OF AUSTIN DBA AUSTIN ENERGY
CITY OF GARLAND
CONSTELLATION ENERGY GENERATION LLC
CPS ENERGY
CWP ENERGY INC
DELILAH SOLAR ENERGY II LLC
DELILAH SOLAR ENERGY LLC
DENTON MUNICIPAL ELECTRIC
DERIVA ENERGY SERVICES LLC
DIRECT ENERGY LP
EDF NORTH AMERICA
ENEL TRADING NORTH AMERICA LLC
ENEL X NORTH AMERICA INC
ENERWISE GLOBAL TECHNOLOGIES LLC
ENGIE ENERGY MARKETING NA INC
ESV ENERGY MANAGEMENT LLC (QSE)
ETC ENDURE ENERGY LLC
FORMOSA UTILITY VENTURE LTD
GALT POWER INC
GERDAU AMERISTEEL ENERGY INC
GEUS
GEXA ENERGY LP
GOLDEN SPREAD ELECTRIC COOPERATIVE INC
GOLDTHWAITE WIND ENERGY LLC
GRIDBEYOND LLC
GRIDMATIC EQUISETUM LLC (SQ4)
GUIDEPOST ENERGY LLC
GUNSIGHT MOUNTAIN WIND ENERGY LLC
HABITAT ENERGY INC
HEI1 INC
HEI3 INC
HEI4 INC
HEN POWER MARKETING LLC
IP LUMINA II LLC
IP LUMINA LLC

IP RADIAN LLC
JUPITER POWER ENERGY MANAGEMENT LLC
LINEBACKER POWER FUNDING LLC
LOWER COLORADO RIVER AUTHORITY
LUMINANT ENERGY COMPANY LLC
MCADOO WIND ENERGY LLC
MERCURIA ENERGY AMERICA LLC
MIAMI WIND I LLC
MITSUI AND CO ENERGY MARKETING AND SERVICES (USA
MP2 ENERGY LLC
MP2 ENERGY TEXAS LLC DBA SHELL ENERGY SOLUTIONS
MP2 MESQUITE CREEK WIND LLC
NEXTERA ENERGY MARKETING LLC
NG RENEWABLES ENERGY SERVICES LLC
NRG TEXAS POWER LLC
NUENERGEN LLC
OCCIDENTAL POWER SERVICES INC
OCTOPUS ENERGY LLC
PATTERN ENERGY MANAGEMENT SERVICES LLC
PERFECT POWER LLC
PRIORITY POWER MANAGEMENT LLC
PROLOGIS ENERGY LLC
RATTLESNAKE WIND I LLC
RAYBURN COUNTRY ELECTRIC COOPERATIVE INC
RIESEL HOLDCO LLC
RWE CLEAN ENERGY QSE LLC
SAMSON SOLAR ENERGY II LLC
SAMSON SOLAR ENERGY III LLC
SAMSON SOLAR ENERGY LLC
SANDY CREEK ENERGY ASSOCIATES LP
SANTA RITA EAST WIND ENERGY LLC
SANTA RITA WIND ENERGY LLC
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STANTON WIND ENERGY LLC
SUSTAINING POWER SOLUTIONS LLC
TENASKA POWER SERVICES CO
TOTALENERGIES GAS AND POWER NORTH AMERICA INC
TURKEY TRACK WIND ENERGY LLC
TYR ENERGY LLC
UMBRA ASSET MANAGEMENT LLC
VOLTUS INC
WAKE WIND ENERGY LLC
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ERCOT requests support in prioritizing initiatives during RTC implementation

- As discussed at the April 2025 Board meeting ERCOT is minimizing changes to most systems to focus on RTC+B testing, market trials, and transition to go-live
 - ERCOT Production Code freeze in effect (exceptions for critical issues)
 - No major market changes for remainder of 2025
- ERCOT has also been collaborating with TAC on how to prioritize work where there
 are limited market design resources due to RTC+B efforts:
 - Pausing work on non-priority revision requests and impact analyses that involve market design and settlements matters (ERCOT and non-ERCOT sponsored revisions requests)
 - Continuing work:
 - Legislatively mandated items such as Dispatchable Reliability Reserve Service (DRRS)
 - ERCOT Board approved initiatives such as Demand Response development
 - Important items where ERCOT has bandwidth such as Transmission Planning and some System Operations related items
 - Prioritizing post RTC+B work:
 - TAC direction on how to engage stakeholders at PRS (or other group) to work with ERCOT staff to develop a roadmap/parking deck process to help manage workflow after RTC+B go live



Next Steps

- For September Board (last scheduled meeting before go-live):
 - Seeking Board approval of final clarifying revision request (NPRR1290)
 - Initial results of Closed Loop LFC Testing
 - Update on Transition Plan details and any risks for Go-Live

Key Takeaway(s)

- RTC+B Program on-schedule for target 12/5/25 Go-Live
- ERCOT working closely with Market Participants and policy makers to ensure alignment and no roadblocks in delivery of the program

