



Item 5: Comprehensive Transmission Planning Process Update

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Board of Directors Meeting

September 14-15, 2026

Purpose

Provide an update on recent stakeholder discussions to evolve the ERCOT transmission planning process.

For information only

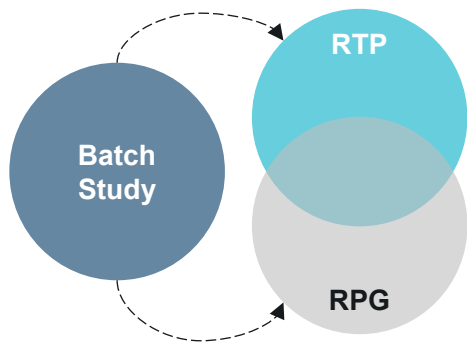
No action is requested; for discussion only.

Key Takeaways

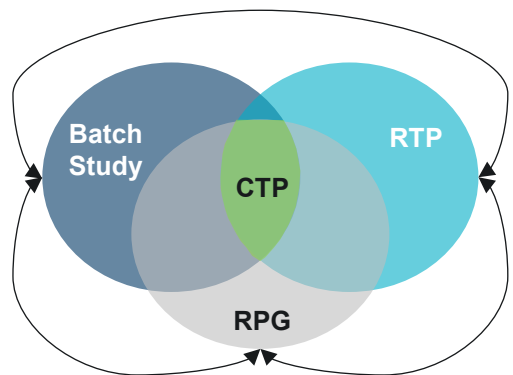
- ERCOT is working with stakeholders to integrate the batch study, modeling, and reliability studies into a single comprehensive transmission planning process.
- Numerous Transmission Service Providers have been consulted and are supportive of the efforts.
- Stakeholder wide workshops will continue through the fall to inform development of Revision Requests.

Scope of this effort: remake transmission planning into an integrated, holistic process

From disconnected processes...



...to an integrated, holistic planning process

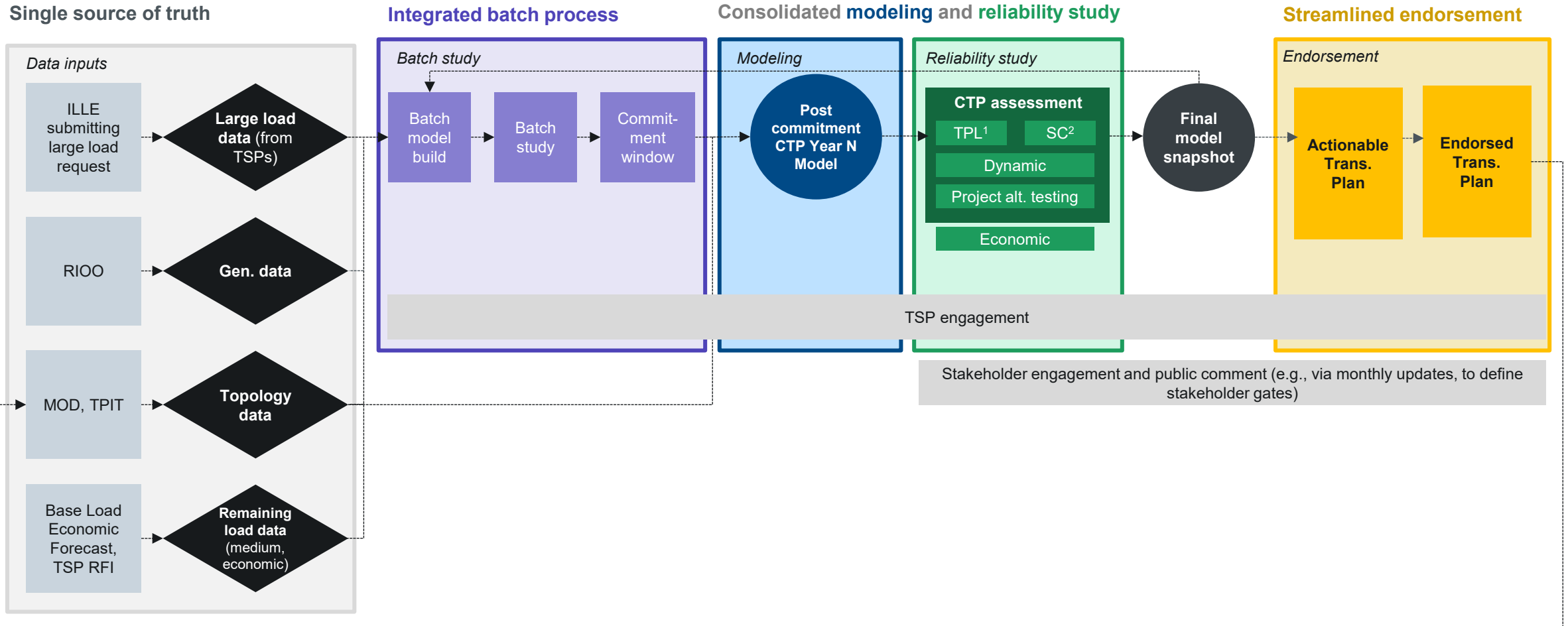


Objectives of this effort

- 1 Realign and potentially redesign the end-to-end process inclusive of the Batch Study process
- 2 Engage stakeholders to capture feedback and input
- 3 Identify opportunities to optimize the processes

Comprehensive Transmission Planning integrates batch study, modeling, and reliability study into a single process

Draft



1. TPL and Alternative Project Analytics
2. Short circuit

We have consulted 27 TSPs on the process design

27

interviewed

21

sessions held
(including two-hour, in-person
whiteboarding sessions)

1

stakeholder workshop
completed
(including other stakeholders /
market participants)

Consulted TSPs include...



TSPs are supportive of the CTP effort; initial discussions have highlighted important scope elements to address

Non-exhaustive

Takeaways	Details and examples
TSPs support a ‘managed’ transition to a new CTP framework	• Consensus there is opportunity for significant changes to planning process. • Multiple TSPs indicated they would like to stage certain process changes (<i>e.g., testing the new planning processes before changing RPG</i>)
Treatment of medium loads (sub-75 MW) should be revisited	• TSPs are seeing significant growth in medium loads as well and would like to re-assess how they are treated (<i>e.g., reconsidering the 75 MW threshold; standardized qualification criteria</i>)
TSPs are aligned with more “consolidated” case-building processes	• Support for merging SSWG and RTP case-building activities into single process • TSPs are open to case rationalization (<i>e.g., creation of a standard case ‘library’</i>) and sharing data to enable TSPs to customize models
Elimination of transmission project re-study is a priority for TSPs	• RTP study and RPG independent reviews are seen as duplicative, but no alignment yet on merging them
Approval pathways for projects outside of CTP seen as necessary	• Local projects (<i>e.g., like for-like rebuilds</i>) need a lighter-touch review pathway that doesn't require waiting for the CTP cycle • Approvals outside of CTP will enable these kinds of projects to advance without being bottlenecked

Initial Batch 1+ Revision Requests priorities span four focus areas to continue advancing the Large Load framework

Non-exhaustive

Initial ERCOT priorities for Revision Request development

Large Load Interconnection	• ILLE-TSP-ERCOT interaction process for Batch Studies • Framework for resubmitting unmet Large Load ramp requests across Batches • Carry-forward treatment for non-committed Large Loads across Batch cycles • Governance framework for post-study project changes (e.g., delayed in-service date or end-use technology changes)
Eligibility	• Financial security methodology for transmission upgrades and direct interconnection costs to align with PUCT changes in 58481
Study frameworks	• Modernization of Batch study scope, responsibilities, and model governance • Short circuit studies • SSO studies • Dynamic model change evaluation
Bring Your Own Generation (BYOG)	• WLPUN enhancements (Withdrawal Limited Private Use Network) • Alternative BYOG options • Battery-related options

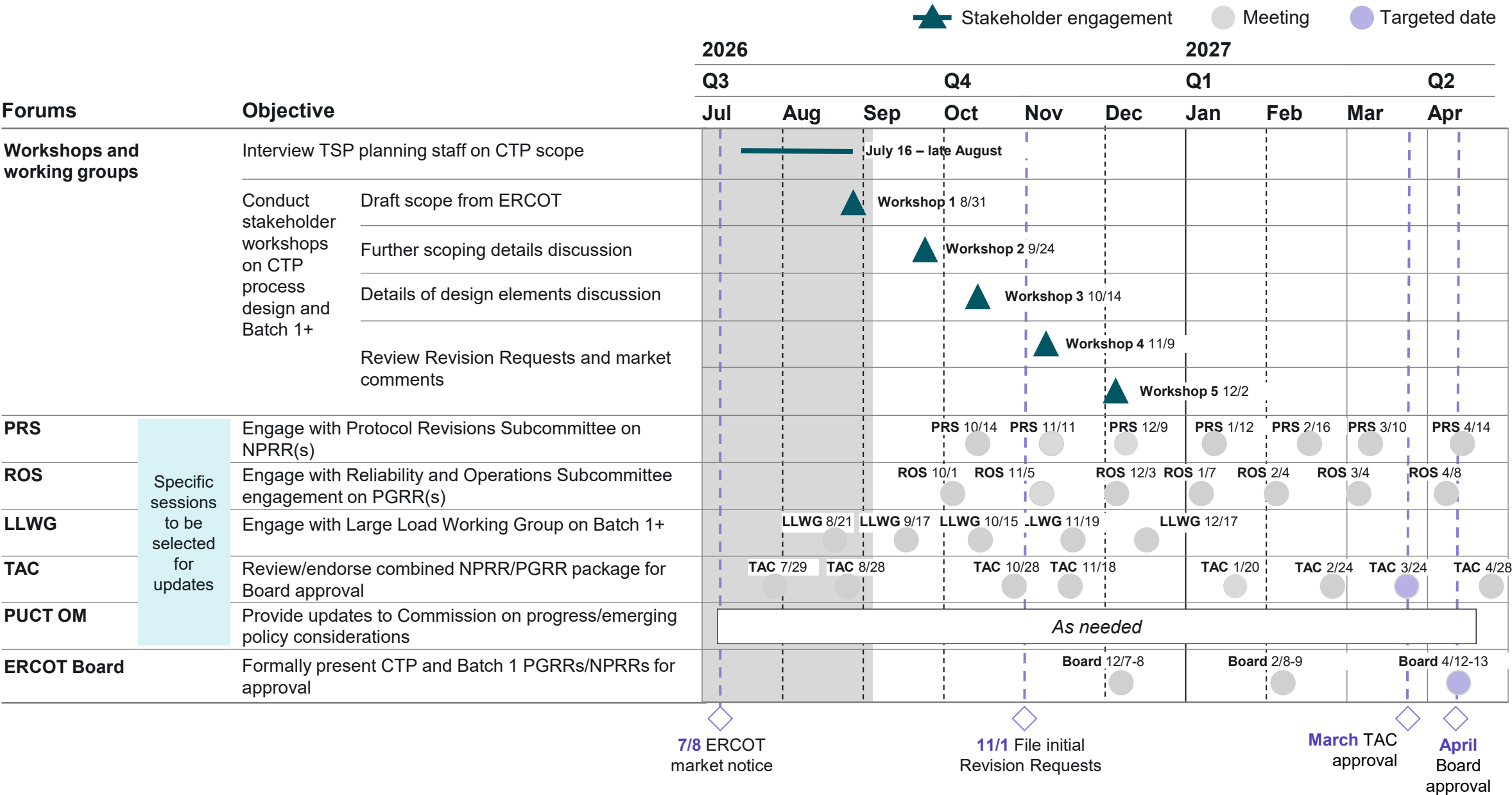
We plan to facilitate four more stakeholder workshops, with the next one scheduled for September 24

☒ We are here



Appendix

After first stakeholder workshop, four more planned by end of year



The near-term ambition is to achieve an industry-leading cycle time

Preliminary

Transmission planning benchmarking		
RTO/ISO	Time from data intake to actionable Tx plan, mo.	Includes load interconnection?
SPP Integrated Transmission Planning (ITP)	27+	
PJM Regional Transmission Expansion Plan (RTEP)	18+	
MISO Transmission Expansion Plan (MTEP)	18	
CAISO Transmission Planning Process (TPP)	17	
ercot Comprehensive Transmission Planning (CTP) - <i>targeted</i>	12-18	

Note: Transmission planning is defined as starting from the date the RTO/ISO establishes the planning cycle's scope and study assumptions and ending the date that the governing body approves the resulting recommended transmission projects. Benchmark years reflect SPP (2025), PJM (2024), MISO (2025), and CAISO (2025)

Sources: [PJM Manual 14B](#), [PJM Manual 14F](#), [MISO Transmission Expansion Plan \(MTEP\) MTEP25 Report](#), [SPP 2025 Integrated Transmission Planning Scope](#), [CAISO Transmission Planning Process 2024-2025](#)