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2026 Long-Term System Assessment (LTSA) Update: Gen Siting

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Outline:

- Study Assumptions
- Capacity Expansion Recap
- Gen Siting
- Preliminary System Summary

LTSA Current Trends Case Input Assumptions

- LTSA Current Trends Case
  - Load Updates
    - Load forecast used for 2026 LTSA Current Trends (ERCOT Adjusted Forecast) includes adjustments applied to the TSP provided large load additions
    - The load forecast includes projections for EV and rooftop PV (Updated)
      - 2__SAWG_2026_LTLF_Update_REVISED_7-9-2026

Recap: Current Trends Generator Capacity Expansion Summary

Description	Unit	2027-2036	2037-2041	Total
Combined Cycle (CC) Additions	MW	15,162	5,415	20,577
Combustion Turbine (CT) Additions	MW	18,486	237	18,723
Internal Combustion Engine (IC) Additions	MW	5,625	125	5,750
Storage Additions	MW	106,504	109	106,613
Solar Additions	MW	38,597	-	38,597
Wind Additions	MW	25,000	3,800	28,800
Total Capacity Additions	MW	209,374	9,686	219,060
Retirements	MW	2,886	-	2,886

December 2025 RPG Presentation - 2026 LTSA Update-Current Trends Capacity Expansion Results

Generator Siting for Current Trends Scenario

- Wind and solar sites are dictated by the wind and solar profiles used in capacity expansion and retirement analysis.
- Dispatchable generation resources and batteries are distributed to zones (Panhandle, West/Far West, and Rest) as identified in the capacity expansion plan, and the specific site is determined based on factors such as
  - Resource availability and limitations
  - Future development sites that meet Planning Guide Section 6.9(1) requirements
  - Future development sites with signed Standard Generation Interconnection Agreement (SGIA), but do not otherwise meet Planning Guide Section 6.9(1) requirements
  - Locations evaluated as a potential site to have a high nodal price

Gen Siting by Weather Zone for 2041

Weather Zone	Battery (MW)	Natural Gas (MW)	Solar (MW)	Wind (MW)	Grand Total (MW)
Coast	14,248	4,439	3,336	738	22,761
East	9,139	5,624	4,718	-	19,481
Far West	8,247	9,702	1,777	5,322	25,049
North	24,070	4,282	4,313	10,318	42,982
North Central	21,023	8,434	11,032	3,242	43,831
South Central	9,640	9,278	3,748	312	22,978
Southern	13,687	3,314	7,593	2,026	26,620
West	6,550	-	2,081	7,128	15,760
Grand Total	106,604	45,074	38,598	29,085	219,461

*Generation Siting and Capacity Expansion values are generally consistent, though slight differences may occur because of the inherent characteristics of the GIS queue.

Preliminary System Summary

Description	Unit	2036	2041
Coincident Peak Load	MW	168,930	176,609
Peak Net Load	MW	145,750	155,722
Annual Served Demand	GWh	1,228,075	1,294,091
Annual Storage Charging	GWh	51,234	52,989
Annual Transmission Losses	GWh	22,736	24,404
Annual Generation	GWh	1,302,045	1,371,484
Load-Weighted Average LMP	$/MWh	54.08	61.18

Questions/Comments?

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