



2024 RTP Load Review Final Update

ERCOT
Regional Transmission Planning

April 2024

Agenda

- Load forecast
- Rooftop solar forecast
- EV load incorporation
- Large load additions
- Final load levels

Recap: Load Forecast: 2024 RTP Load Level (MW, less self-serve, losses and LFLs)

Year	Coast	East	Far West *	North	North Central	South Central	Southern	West *	Total
2025	22,685	3,142	7,019	2,339	28,728	14,978	7,607	2,415	88,912
2026	22,943	3,168	7,445	2,359	28,892	15,237	7,676	2,435	90,155
2027	23,204	3,193	7,868	2,380	29,063	15,504	7,746	2,456	91,415
2028	23,468	3,219	8,086	2,402	29,233	15,666	7,816	2,477	92,368
2029	23,733	3,247	8,306	2,425	29,400	15,822	7,886	2,497	93,316
2030	23,993	3,274	8,519	2,449	29,563	15,970	7,954	2,576	94,299

	Bounded (based on 7.5% threshold)
	ERCOT 90th percentile
	SSWG Forecast

*The load level reflects the bounded higher-of methodology outlined in Planning Guide Section 3.1.7 (1) (a)-(d). For West and Far West weather zones, the 2024 RTP will use **S&P Global *Electrifying the Permian Basin*** 2022 load forecast, which is not reflected in this table. A summary of this report was presented at the March 2023 RPG (<https://www.ercot.com/files/docs/2023/03/17/Presentation%20to%20ERCOT%20planning.pdf>).

Recap: Rooftop Solar Forecast

- Rooftop solar impact taken from ERCOT's 90th percentile summer peak demand forecast

Weather Zone	2026SUM (MW)	2027SUM (MW)	2029SUM (MW)	2030SUM (MW)
Coast	608	814	1,369	1,718
East	31	39	59	70
North	47	60	90	108
North Central	993	1,321	2,202	2,753
South	227	305	519	655
South Central	127	174	307	394
West	64	85	141	176
Far West	103	131	199	239
TOTAL	2,200	2,929	4,886	6,113

- Weather zone loads will be reduced based on these values
- All solar will be off in the 2027MIN case, therefore no rooftop solar contribution is applied

EV Load Incorporation

- More details on methodology can be found in the April 2023 RPG presentation [2023 RTP Assumptions Update](#)

Weather Zone	2026SUM (MW)	2027MIN (MW)	2027SUM (MW)	2029SUM (MW)	2030SUM (MW)
Coast	160	47	223	413	554
East	17	7	23	44	59
North	11	4	15	28	38
North Central	234	71	324	608	816
South	31	13	44	81	108
South Central	152	36	212	393	529
West	9	5	12	23	31
Far West	33	15	47	87	117
TOTAL	647	198	900	1,677	2,252

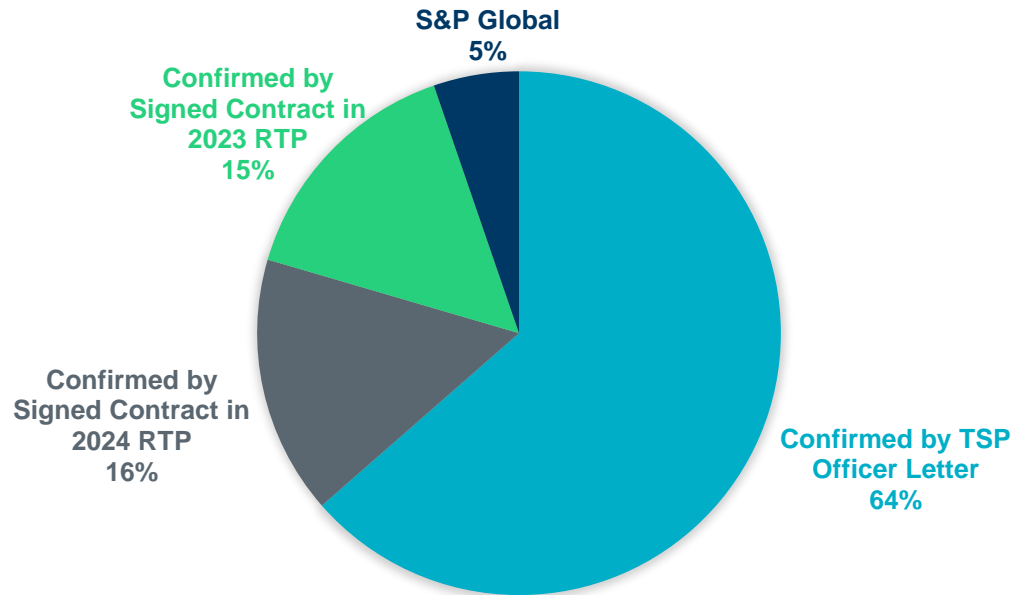
- Loads will be incorporated at the bus level

Recap: 2024 Load Review – Quantifiable Evidence

- TSPs may choose to accept the load forecast; or,
- TSPs may choose to provide quantifiable evidence for cases where the proposed levels are not consistent with their expectations.
- Evidence can include:
 - Industry-reputable third-party study
 - Signed contract
 - Letter from a TSP officer attesting to such load growth

2024 RTP Load Review Results – 2030

- Approximately 62 GW of additional load will be added on top of the 2024 RTP bounded load level for study year 2030 with the breakdown as follows



Final Load Levels

- Including rooftop solar, EV loads, large loads

Weather Zone	2026SUM (MW)	2027SUM (MW)	2029SUM (MW)	2030SUM (MW)
Coast	23,736	27,515	28,815	28,867
East	3,327	3,520	3,581	3,722
North	6,471	8,851	9,042	9,078
North Central	34,175	38,116	44,002	46,209
South	8,524	11,807	17,497	18,456
South Central	18,640	19,584	20,567	20,834
West	4,617	4,760	4,927	4,977
Far West	13,732	16,397	18,260	20,321
TOTAL	113,222	130,550	146,692	152,464
+Self-serve +Losses¹ +Reserves	123,528	141,189	157,823	163,728

- 2027 Min case load is 88,777 MW (w/SS+Losses+Reserves)

1: Losses approximated at 2.3%

Comments/Questions

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