2024 Long-Term Load Forecast With Application of New Waterfalls

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Load Forecasting & Analysis
RPG Meeting
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Agenda

- Scope of Long-Term Load Forecast
- Waterfall Method
- Summer and Winter Peaks
- Contract and Officer Letter Breakdown
- Peak Demand Scenarios
- 90th Percentile Summer Peaks

Forecast Scope

- Our official forecast created using 15 historical weather years, economic drivers, calendar information, and historical load

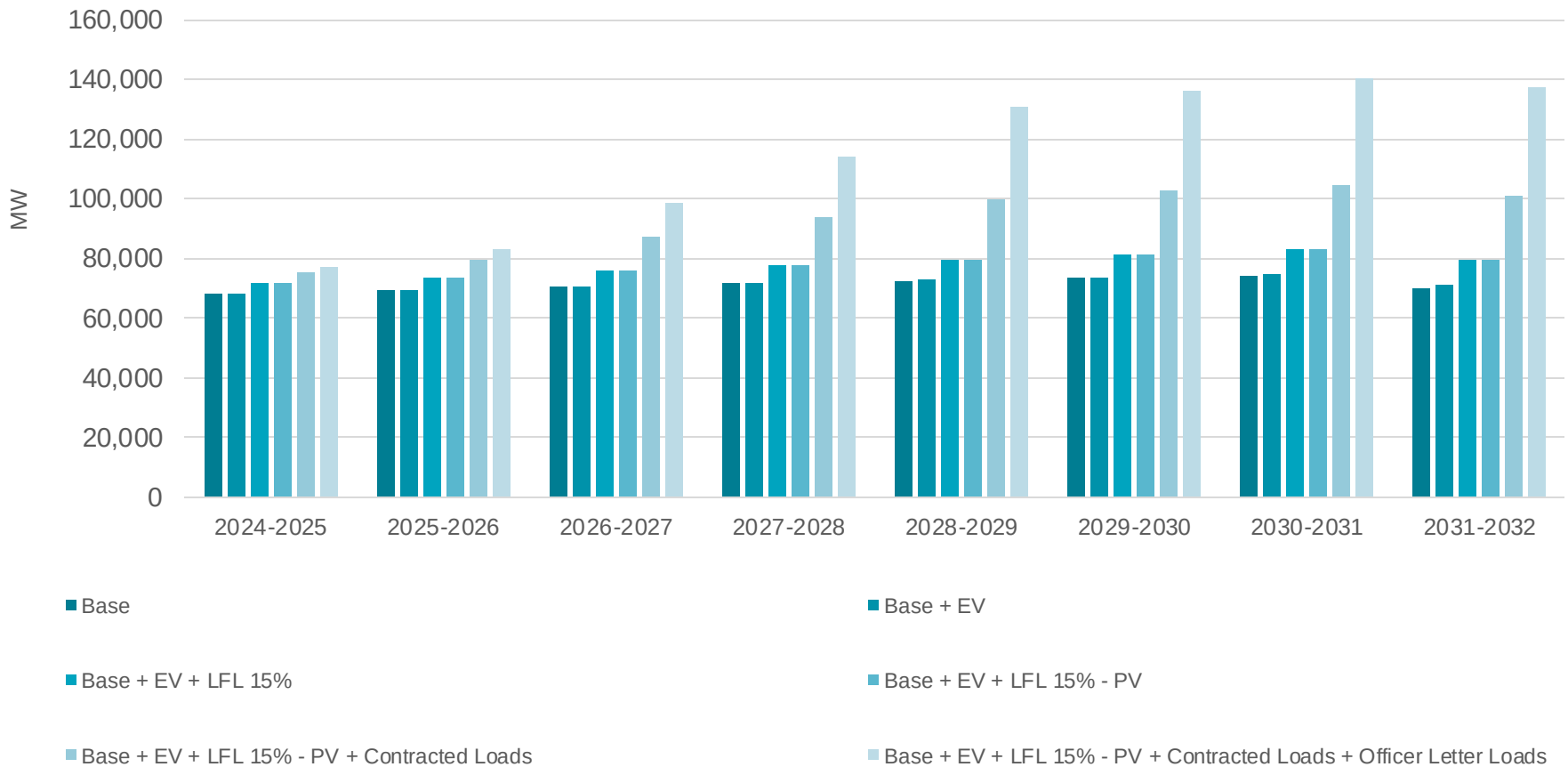
- The 2024 Long-Term Load Forecast, which was published in January 2024, is comprised of:
  - Base (econometric model) forecast,
  - Roof-top PV forecast,
  - Electric Vehicle forecast, Large Flexible Load forecast, and
  - New Large Loads with a signed Contract with their TSP or DSP as of March, 2024

- For this presentation, ERCOT has included the following additional load forecast impacts:
  - Additional New Large Loads with a signed Contract with their TSP or DSP as of March, 2024
  - -Additional New Large Loads without a signed Contract with their TSP or DSP, but with a TSP or DSP Officer Letter

Waterfall Methodology

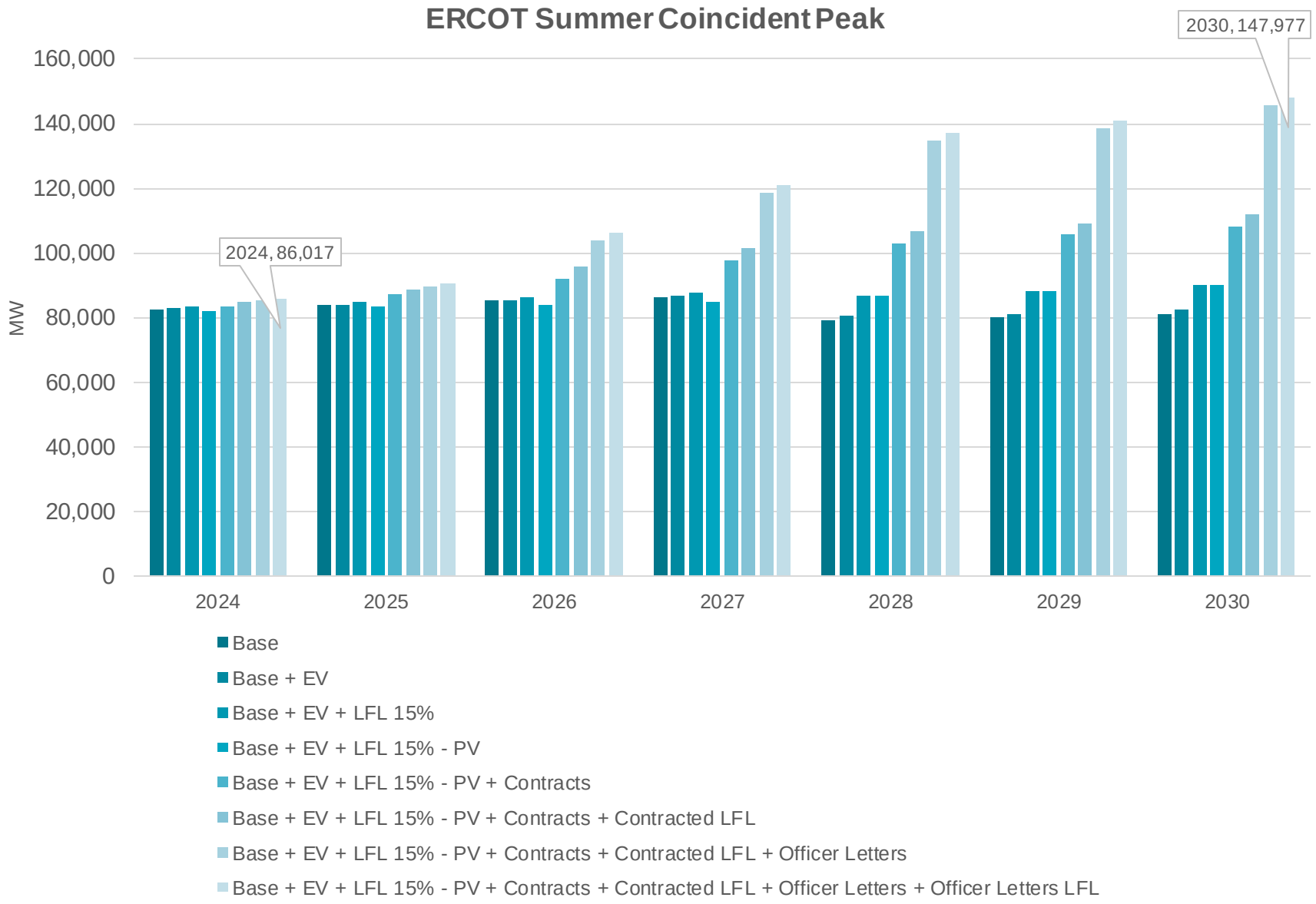
Waterfall Methodology

Long-Term Load Forecast = Base Forecast + EV Forecast + LFL Forecast – PV Forecast + Officer Letters + Contracted Loads



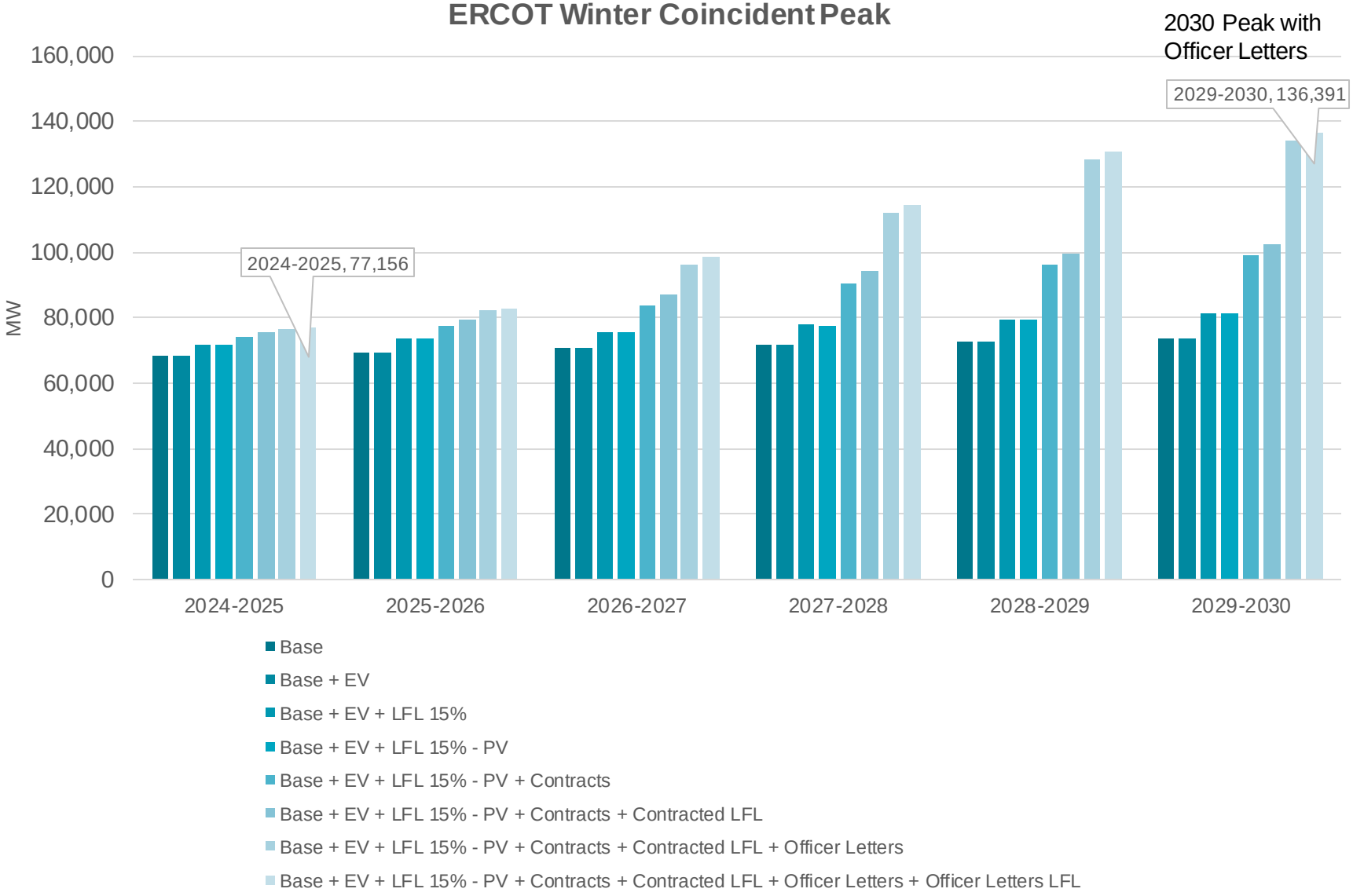
Summer CP Forecast

2030 Peak with Officer Letters



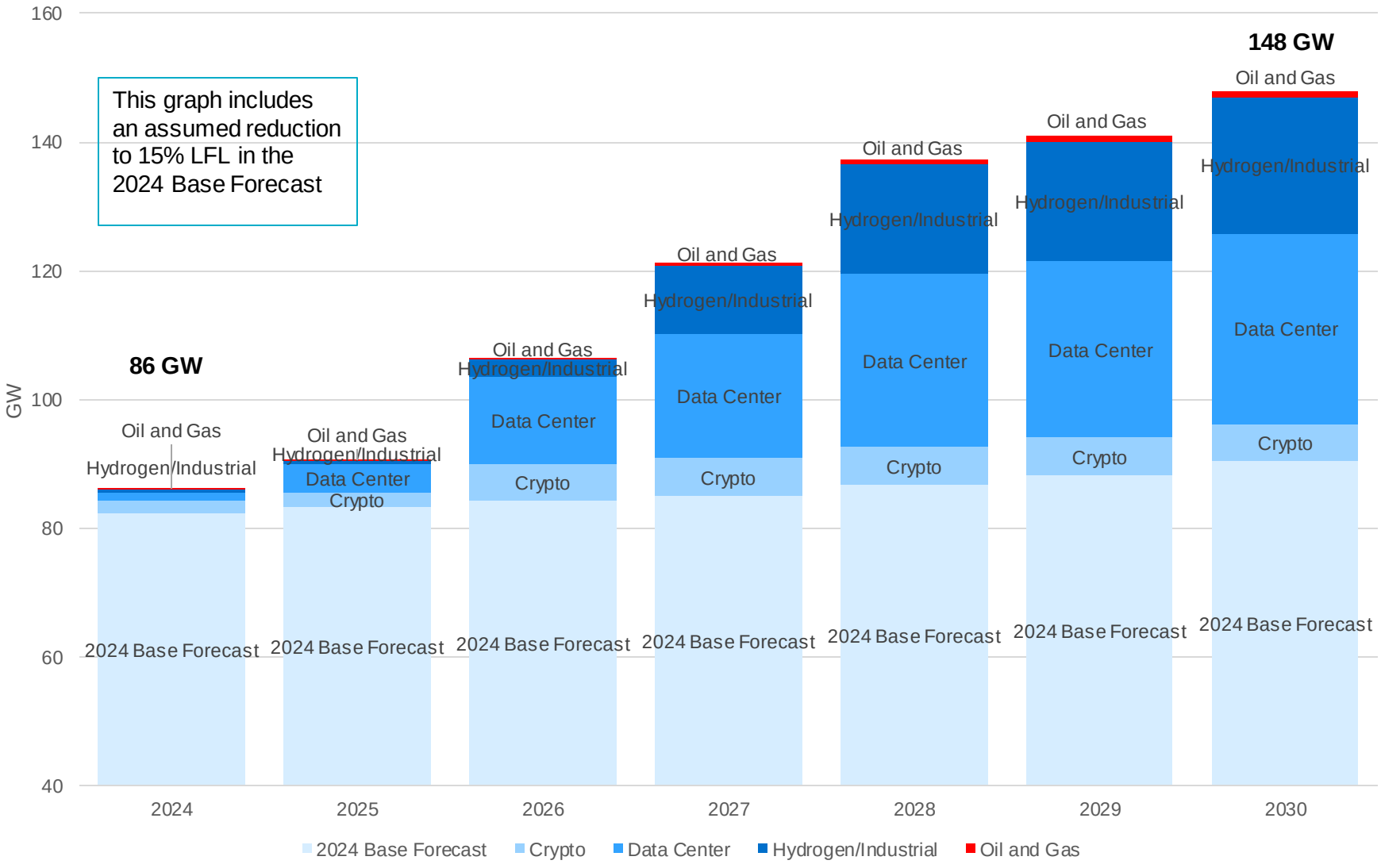
Winter CP Forecast

ERCOT Winter Coincident Peak



Contract and Officer Letter Breakdown

Contracts and Officer Letters Breakdown



Peak Demand Scenarios

ERCOT Peak Demand Scenarios

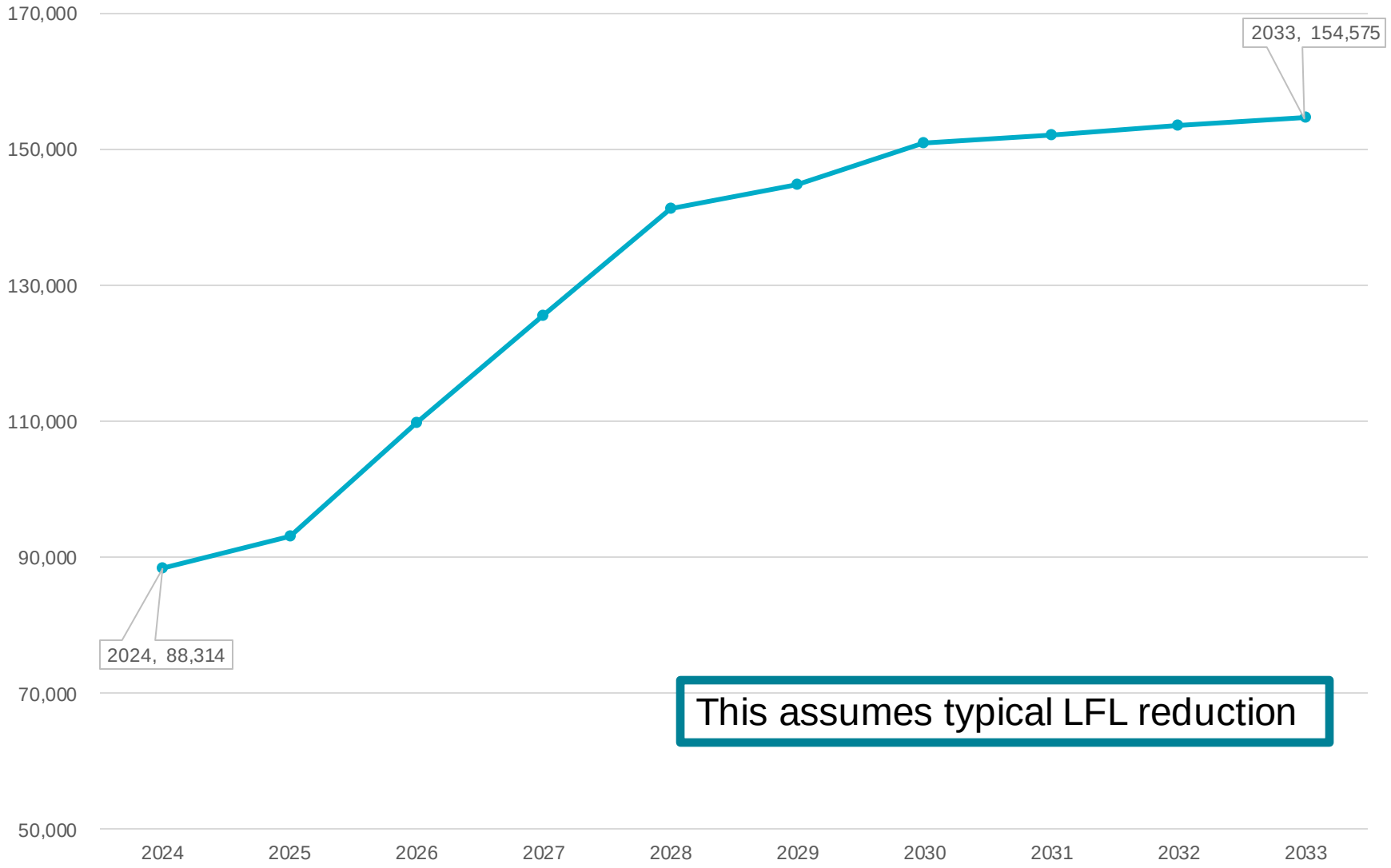
Net Summer Peak Demand (MW) based on historical weather years

	Historical weather year															
Forecast Year	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**Contracts and Officer Letters**
2024	84,867	81,752	84,441	85,007	83,731	82,903	80,724	83,429	81,500	79,084	82,226	82,158	81,983	78,595	82,778	3778.3
2025	86,092	82,796	85,446	85,977	84,749	83,889	81,793	84,505	82,647	80,133	83,244	83,179	83,025	79,790	83,708	7181.5
2026	87,289	83,653	86,393	87,114	85,646	84,751	82,721	85,578	83,860	81,055	84,157	84,086	83,960	81,112	84,732	22233.331
2027	88,502	84,520	87,406	88,370	86,262	85,602	83,704	86,520	84,937	81,918	85,010	85,030	84,677	82,328	85,600	36178.443
2028	89,419	85,105	88,079	89,199	86,893	85,970	84,517	87,247	85,669	82,392	85,479	85,323	85,289	83,232	86,143	50695.313
2029	90,330	85,425	89,358	90,001	87,205	86,446	85,331	87,936	86,358	83,922	87,571	86,872	86,523	84,126	88,235	52730.913
2030	91,219	86,552	90,458	90,482	87,629	87,565	86,516	88,212	88,311	85,589	89,161	88,539	88,115	84,645	89,823	57668.713
2031	92,071	88,330	91,474	91,369	89,406	88,686	87,623	88,542	90,090	87,367	90,939	90,319	89,895	85,860	91,601	57670.713
2032	92,892	90,081	92,399	93,117	91,158	89,830	88,644	89,141	91,839	89,118	92,690	92,067	91,643	87,609	93,352	57674.413
2033	93,684	91,810	93,259	94,837	92,894	91,550	90,119	90,861	93,558	90,846	94,419	93,787	93,363	89,328	95,081	57674.413

To get the Net Forecast add the weather year base forecast and the Contracts and Officer Letters

90th Percentile Summer Non-Coincident Peak

90th Percentile Summer Non-Coincident Peak



Questions?

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Appendix

How Base Forecast is Derived

- 15 Weather Year Forecasts per Weather Zone
  - Rank by Year and Month
  - Sort by Rank
  - Averaged across Weather Years
  - Map to a moderate Weather Year

*Individual Weather Year Forecasts can be used for weather scenarios like LTSA, LTRA, MORA, and other weather studies.

Year	Month	Day	Hour	Rank	Forecast based on 2011's Weather
2024	1	13	20	1	16,159
2024	1	13	19	2	16,140
2024	1	13	11	3	16,055
2024	1	12	9	4	15,993
2024	1	12	8	5	15,979

Summer Peak Hour Shift

	Coast	East	Fwest	NCENT	North	SCENT	South	West	ERCOT
2024	17	17	22	17	22	17	15	17	17
2025	17	17	22	17	22	22	15	17	17
2026	17	17	22	17	22	22	15	17	17
2027	17	17	22	17	22	22	15	17	17
2028	18	17	22	19	22	22	17	18	22
2029	18	17	22	19	22	22	17	18	22
2030	18	17	22	19	22	22	17	18	22