



Seattle City Light

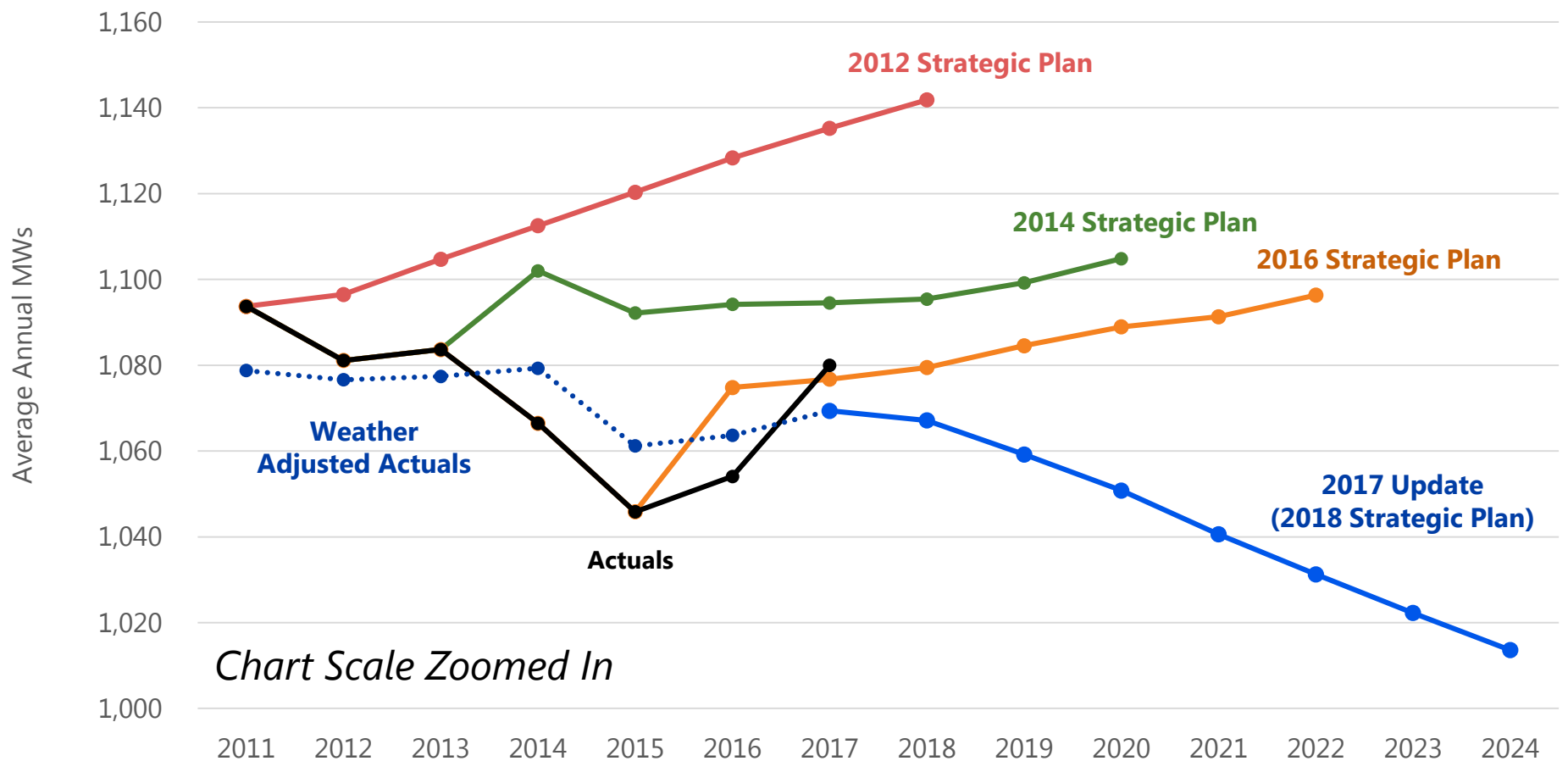
2017 RETAIL SALES FORECAST

City Light Review Panel

John Rudolph and Carsten Croff

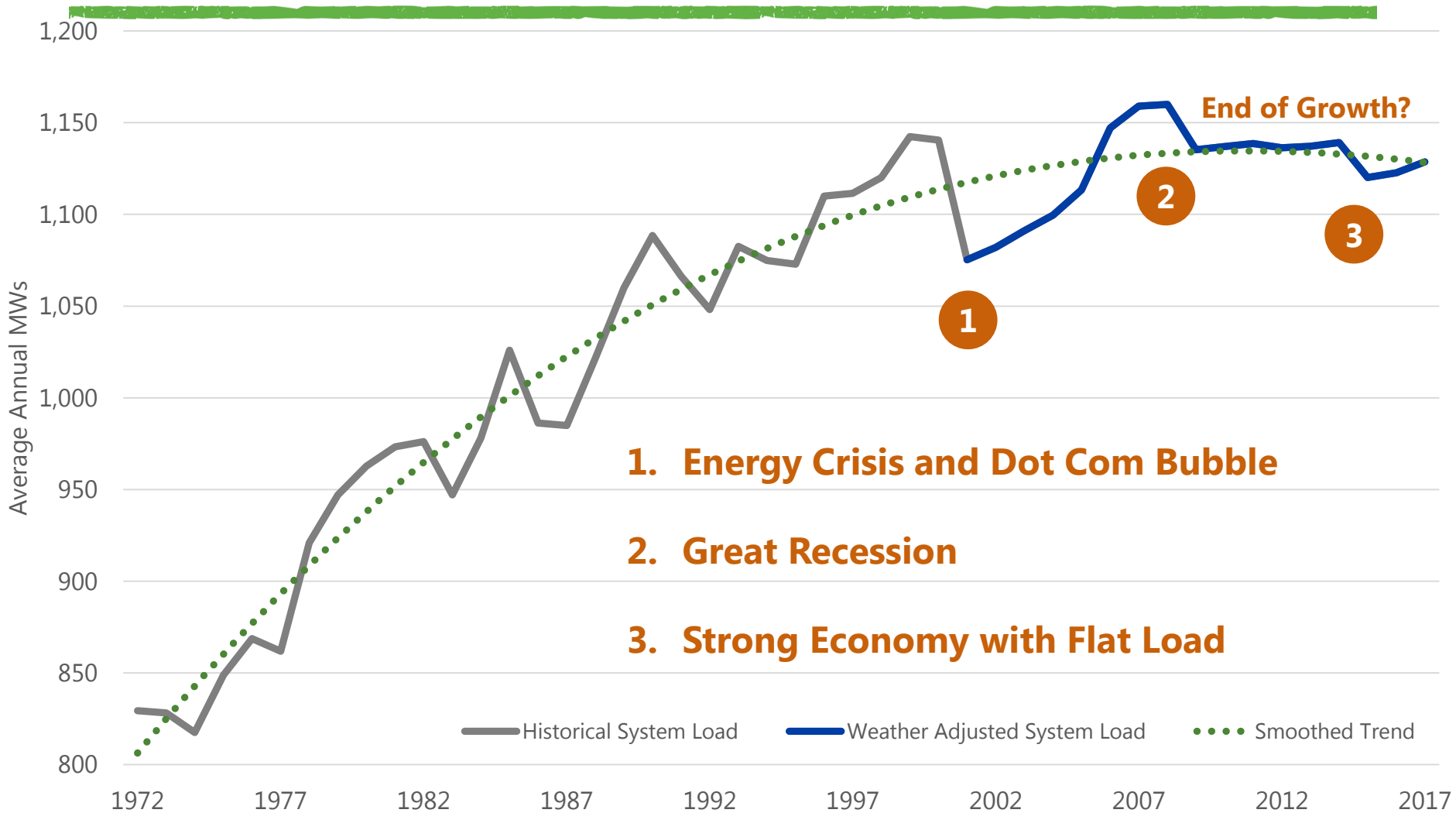
January 8th 2018

CITY LIGHT RETAIL SALES FORECASTS



*2017 based on actual sales through September

SYSTEM LOAD HISTORY



BACKGROUND AND FORECAST GOALS

- 3rd party methodology review
 - Completed in March 2017
 - Conclusion: New methodology needed to account for changing environment (Multi-year effort)
- Goals for 2017 forecast (rebuilding year)
 - Leverage Conservation Potential Assessment for changes in end uses
 - Develop robust weather normalization model
 - Account for new customers being more efficient
 - Develop a technical work team from across the utility





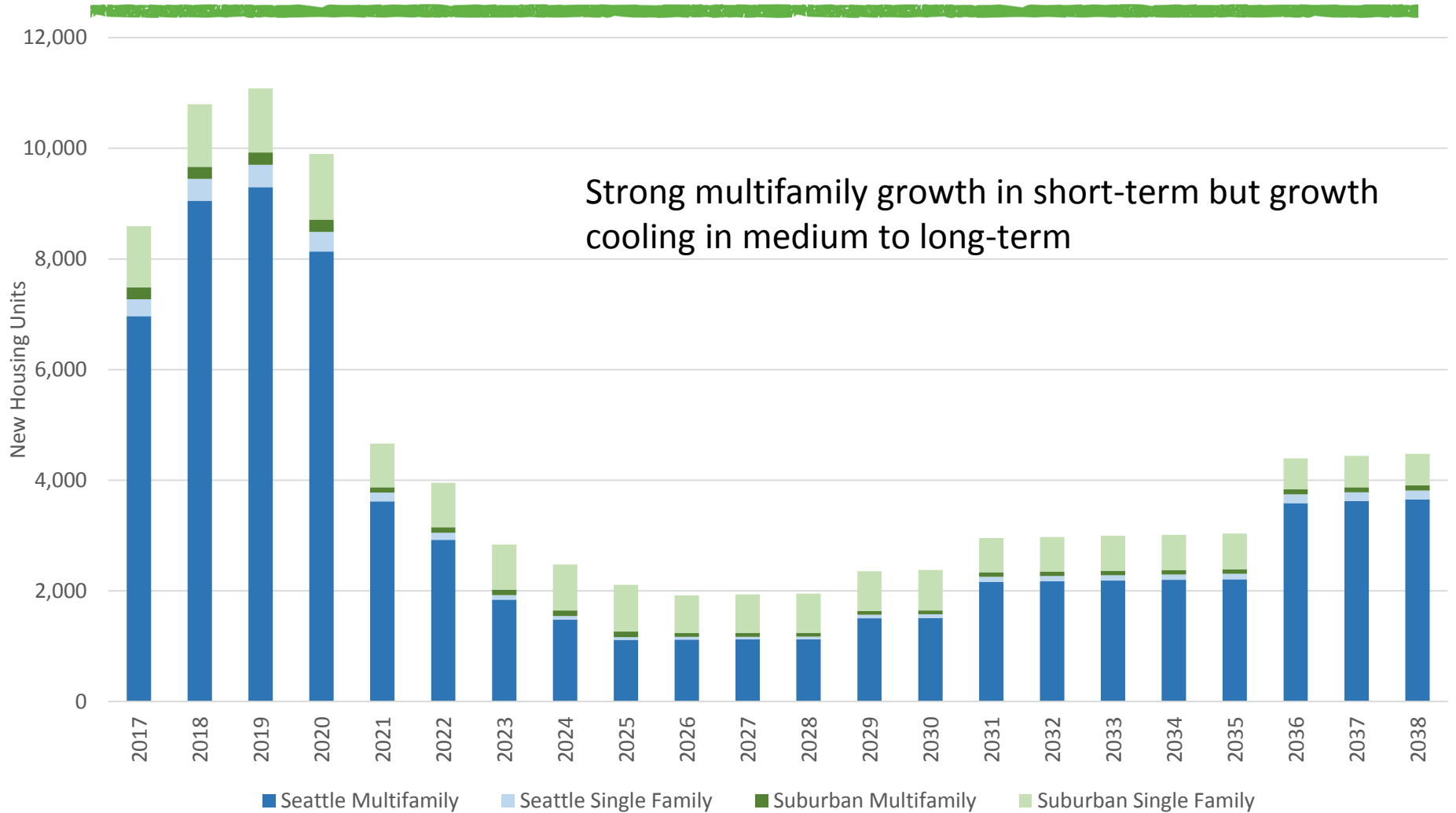
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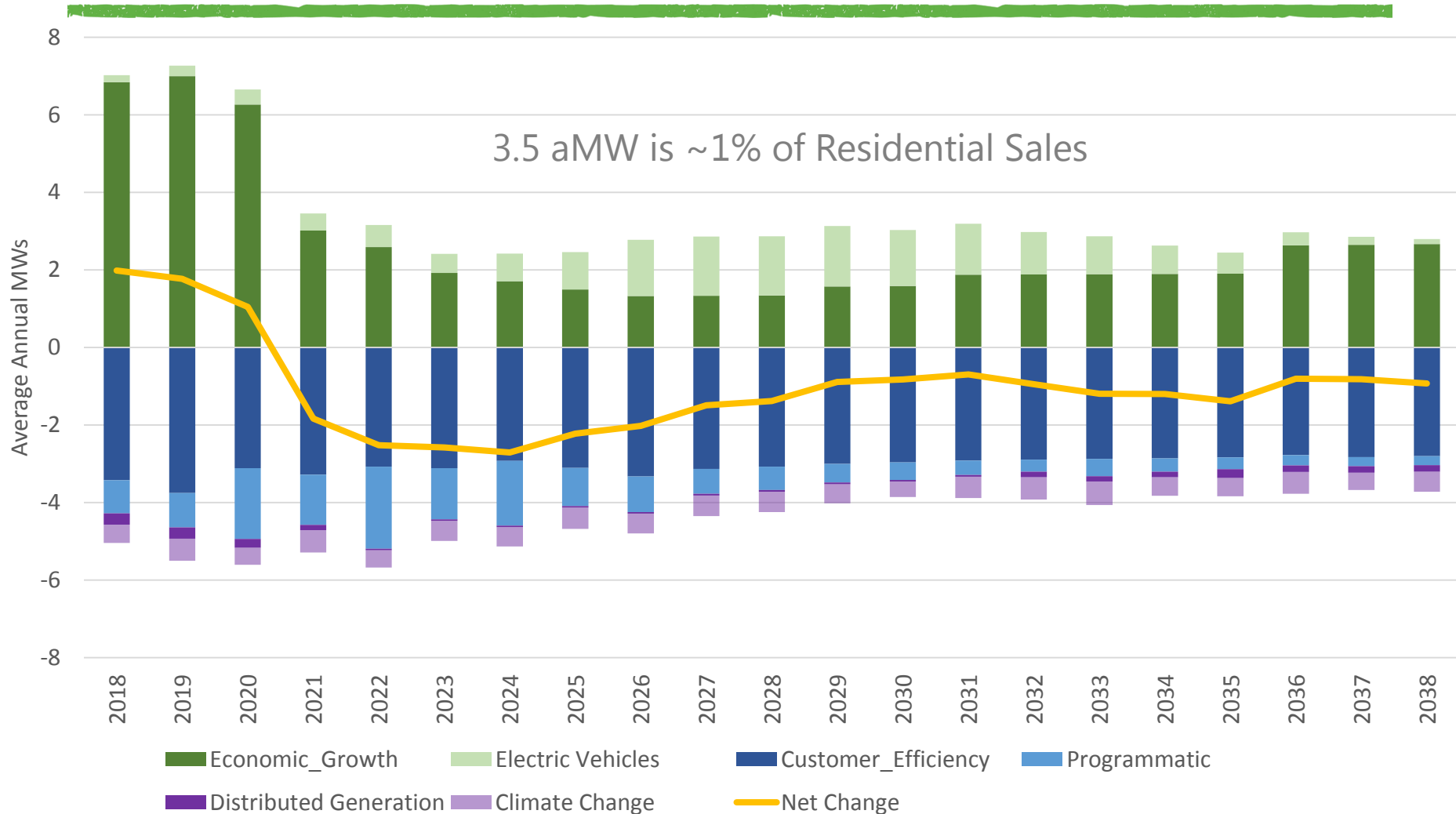
RESIDENTIAL SALES



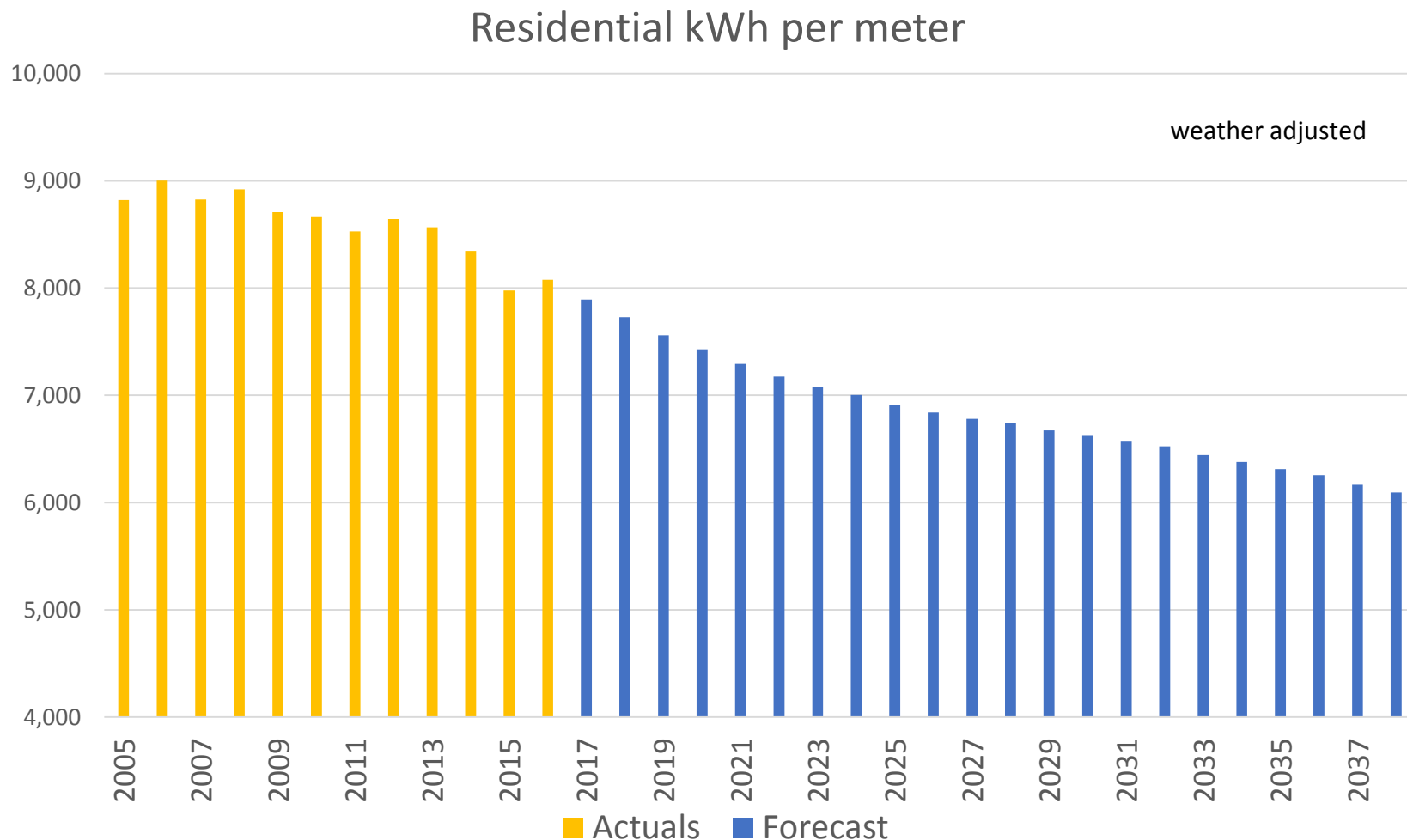
HOUSING STOCK



INCREMENTAL CHANGE IN RESIDENTIAL SALES



RESIDENTIAL ENERGY INTENSITY





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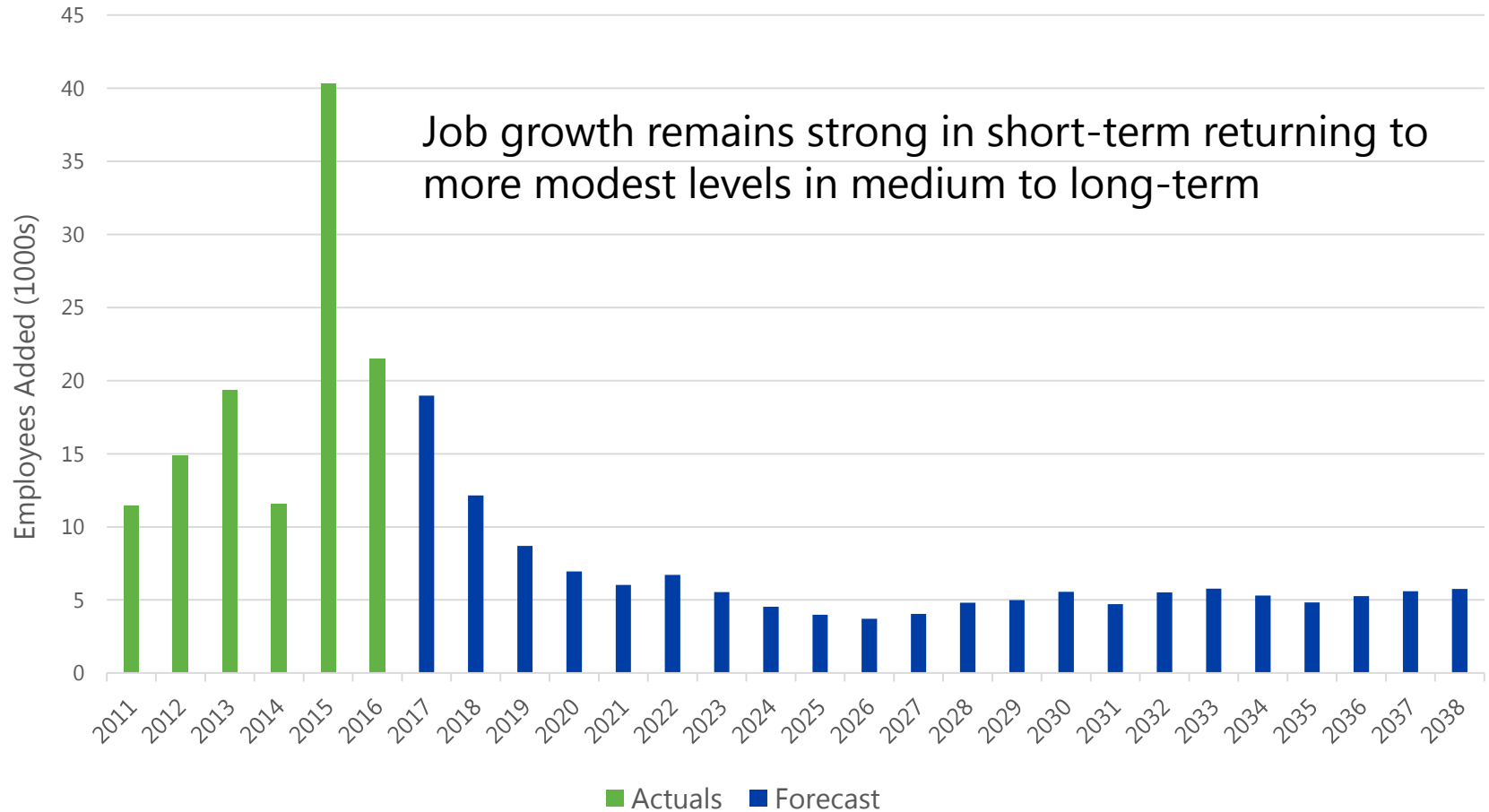


COMMERCIAL SALES

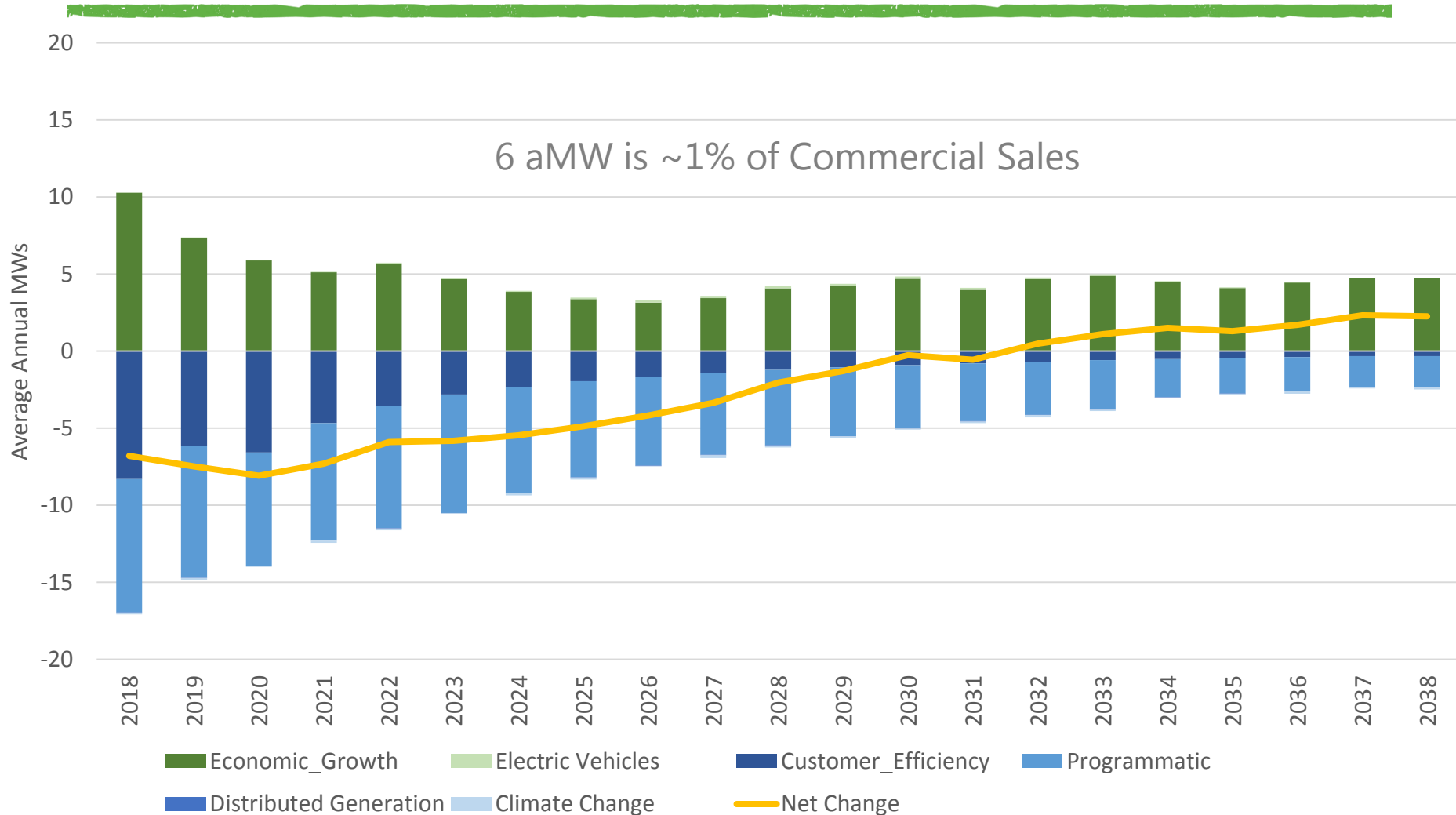


SERVICE SECTOR EMPLOYMENT

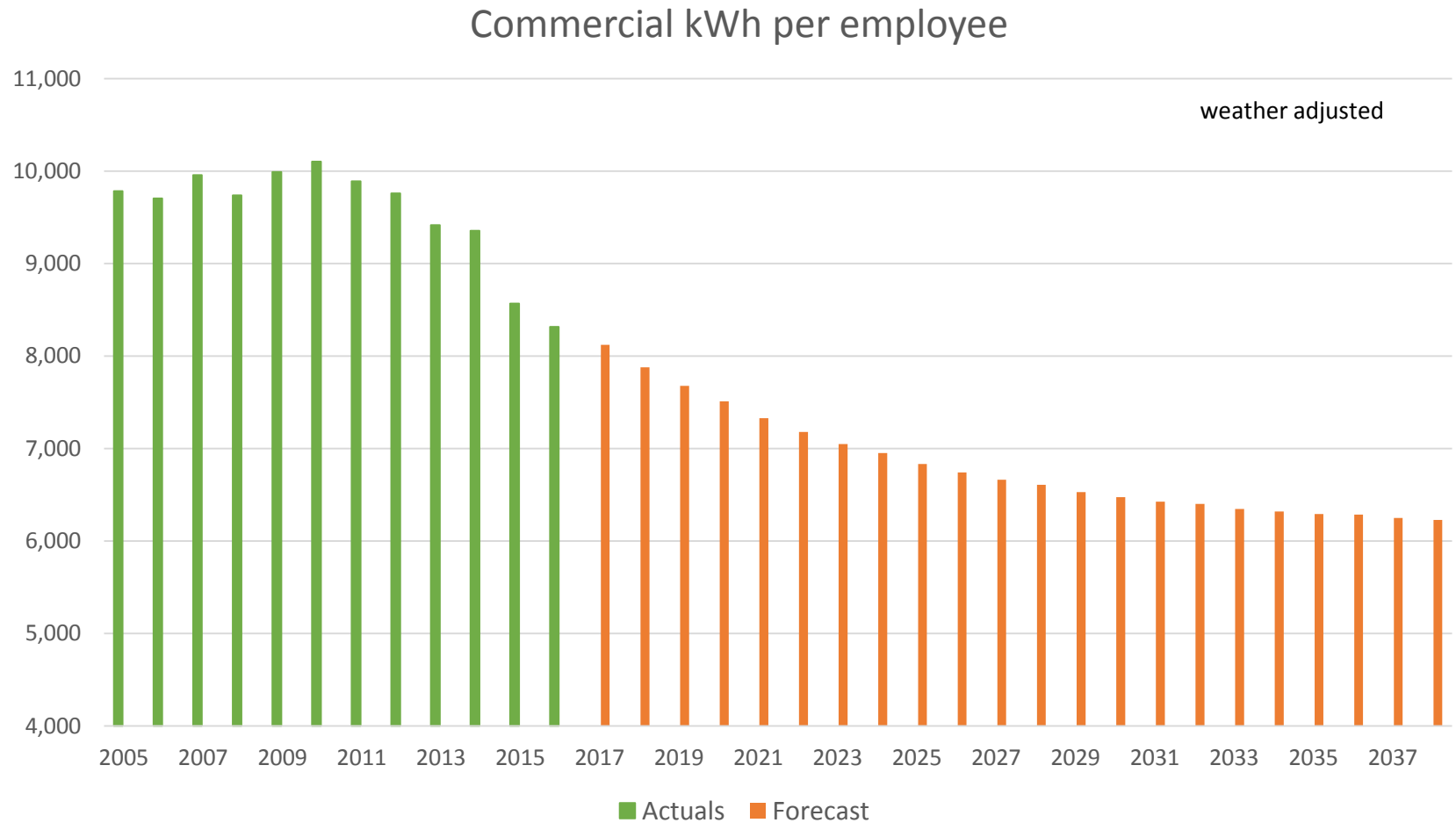
Service Sector Employment Growth



INCREMENTAL CHANGE IN COMMERCIAL SALES



COMMERCIAL ENERGY INTENSITY





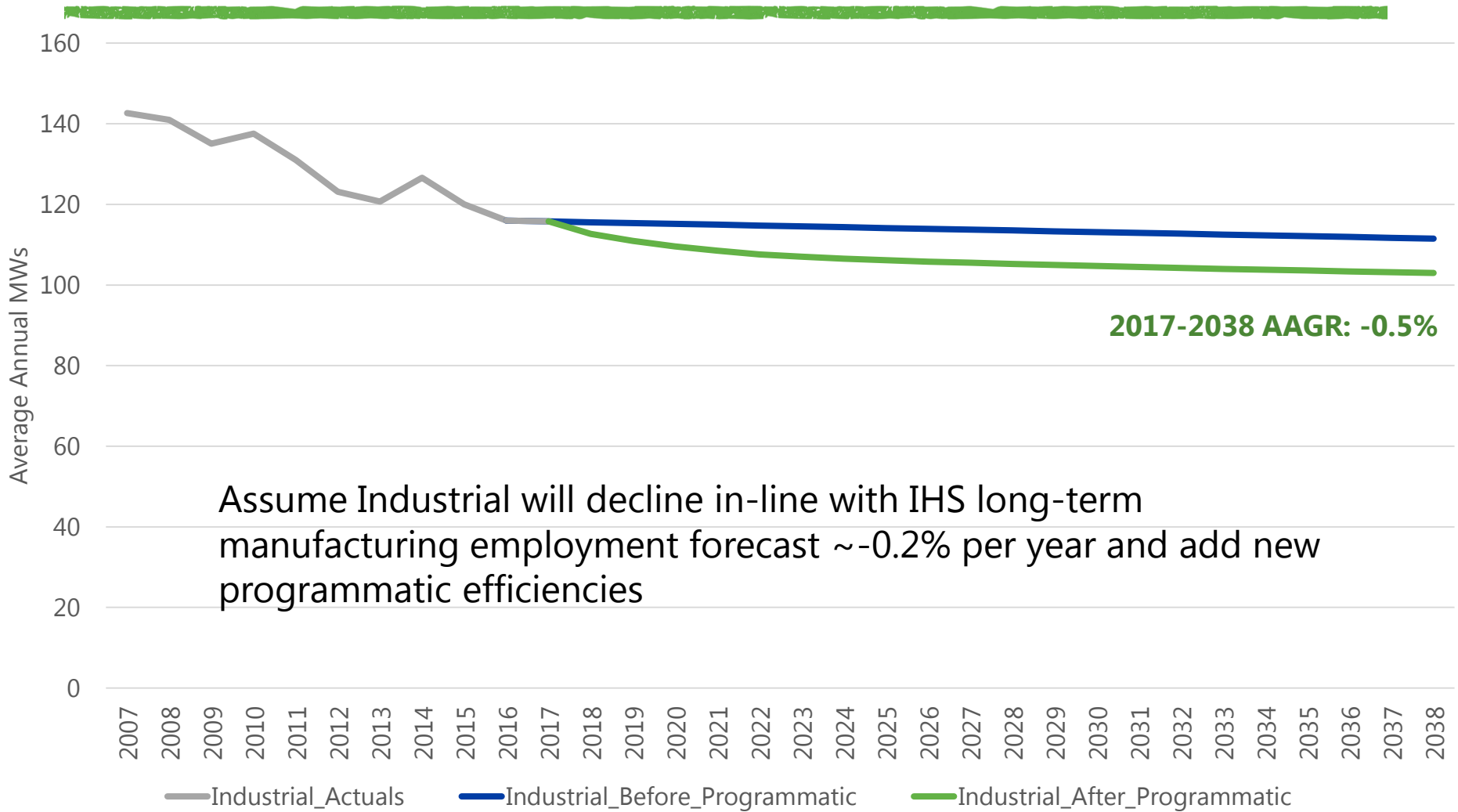
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INDUSTRIAL SALES



INDUSTRIAL





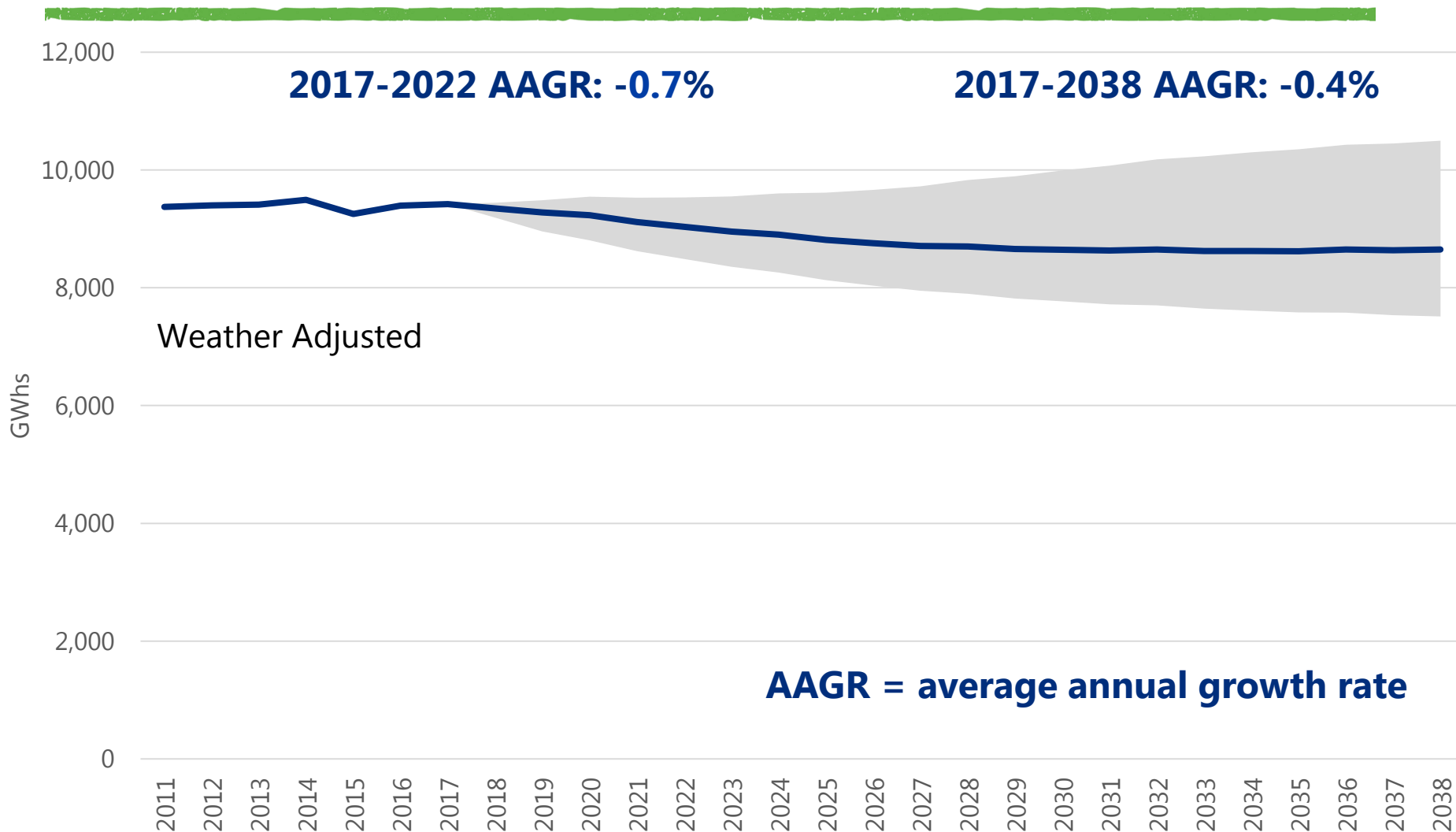
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SUMMARY



2017 RETAIL SALES FORECAST



TAKEAWAYS

- Recent History
 - The past few years have experienced strong economic growth
 - However, weather adjusted retail sales have remained flat
 - Energy efficiency is offsetting economic growth
- Outlook for the future
 - Recent economic growth is expected to slow down
 - Robust EE will continue but at a gradually declining rate
 - Net impact is a small decrease in sales
 - Electric Vehicles are expected to have relatively small impact
- There is still lots of uncertainty
 - New methodology can help decrease uncertainty but can't eliminate it
 - Planning processes using retail sales forecast need to consider more than just a point forecast



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THANK YOU
QUESTIONS?





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SUPPLEMENTAL SLIDES



RELATIVE CHANGE BY CLASS: 2017-2025

	2017	2018	2019	2020	2021	2022	2023	2024	2025
Residential GWh	3,146	3,164	3,179	3,197	3,172	3,150	3,128	3,112	3,084
		0.6%	0.5%	0.6%	-0.8%	-0.7%	-0.7%	-0.5%	-0.9%
Commercial GWh	5,261	5,197	5,128	5,071	4,993	4,941	4,890	4,855	4,799
		-1.2%	-1.3%	-1.1%	-1.5%	-1.0%	-1.0%	-0.7%	-1.2%
Industrial GWh	1,014	987	972	963	951	943	937	936	930
		-2.7%	-1.6%	-1.0%	-1.3%	-0.8%	-0.6%	-0.2%	-0.6%
Total Gwh	9,421	9,348	9,279	9,230	9,116	9,034	8,955	8,903	8,814
		-0.8%	-0.7%	-0.5%	-1.2%	-0.9%	-0.9%	-0.6%	-1.0%

RELATIVE CHANGE BY CLASS: 2026-2038

	2026	2027	2028	2029	2030	2031	2032	2033	2034
Residential GWh	3,067	3,054	3,050	3,034	3,026	3,020	3,020	3,002	2,991
	-0.6%	-0.4%	-0.1%	-0.5%	-0.2%	-0.2%	0.0%	-0.6%	-0.4%
Commercial GWh	4,763	4,733	4,728	4,704	4,702	4,697	4,714	4,711	4,724
	-0.8%	-0.6%	-0.1%	-0.5%	-0.1%	-0.1%	0.4%	-0.1%	0.3%
Industrial GWh	927	924	924	919	917	915	916	911	909
	-0.3%	-0.3%	0.0%	-0.5%	-0.2%	-0.2%	0.0%	-0.5%	-0.2%
Total Gwh	8,756	8,711	8,702	8,657	8,645	8,632	8,650	8,623	8,624
	-0.7%	-0.5%	-0.1%	-0.5%	-0.1%	-0.2%	0.2%	-0.3%	0.0%