



California Energy Commission

PG&E Planning Area Electricity Demand Forecasts

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Presentation Outline

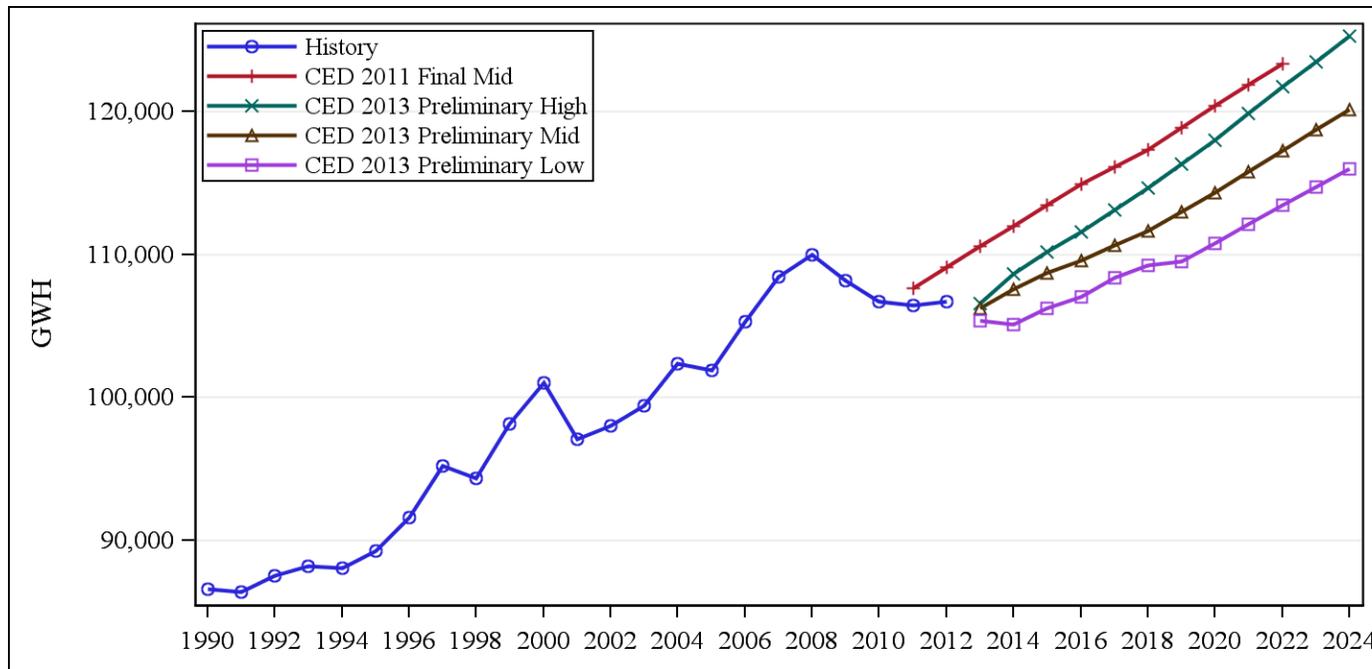
1. Planning area results
2. Efficiency and Self-Generation
3. Climate zone results
4. Comparison to PG&E's forecast



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Electricity Consumption

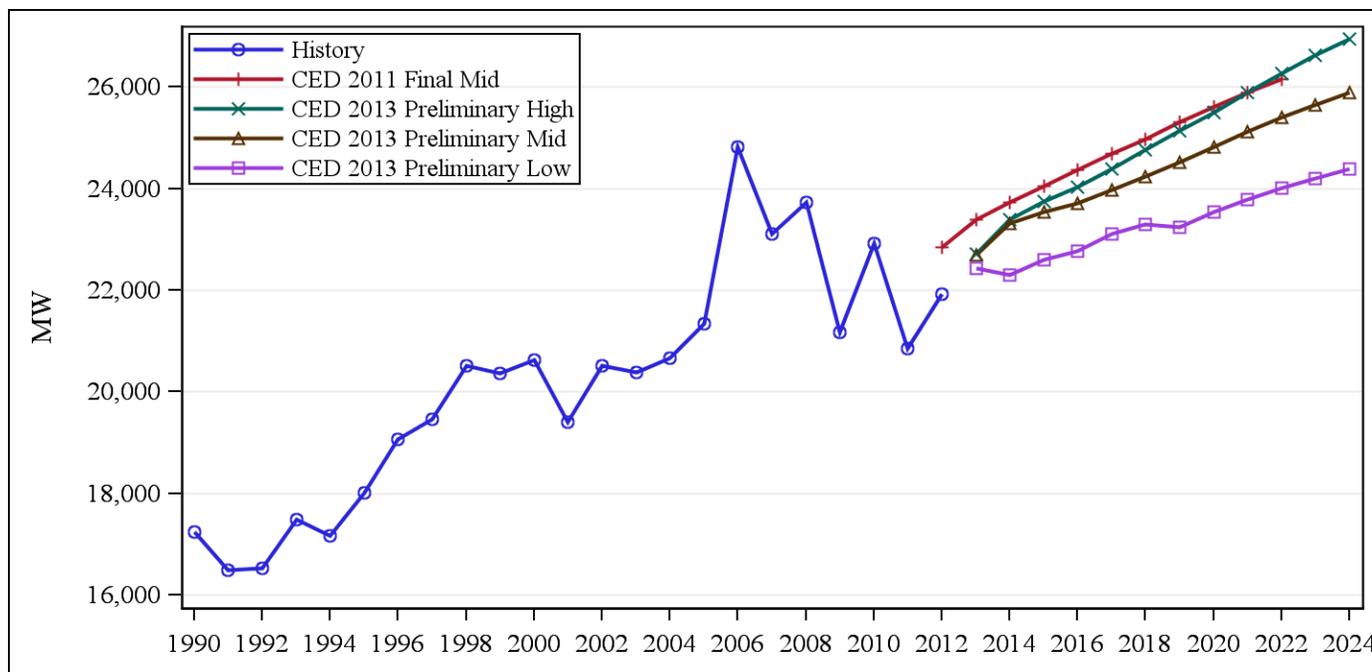
Average annual growth 2012-2024: 1.35% in high case, 0.70% in low case





Peak Demand

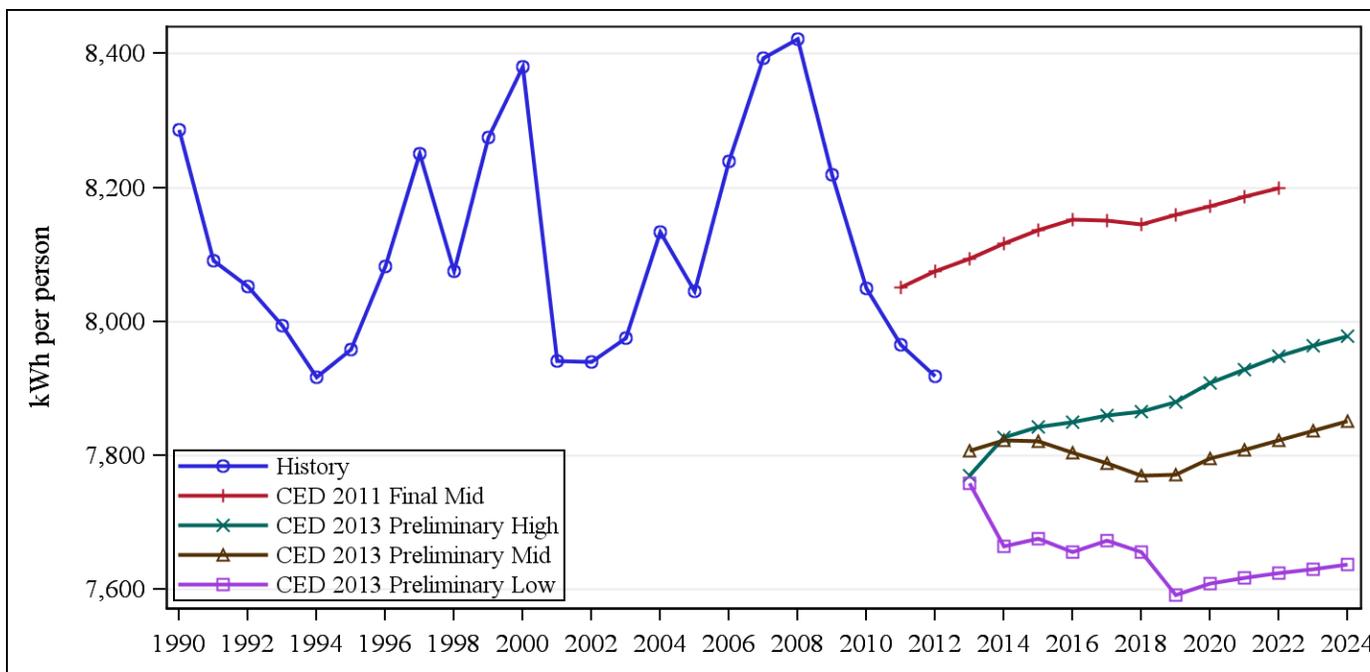
Average annual growth 2012-2024: 1.59% in high case, 0.75% in low case





Per Capita Consumption

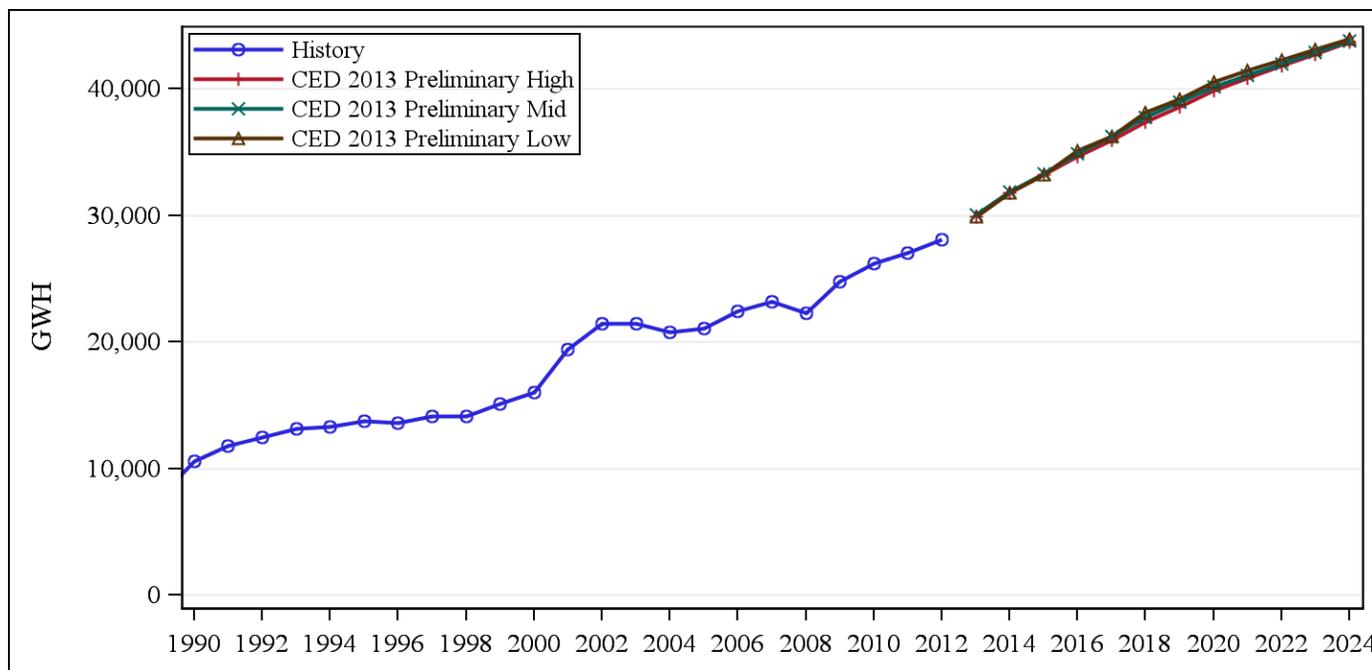
EVs push per capita consumption up toward the end of the forecast period





Efficiency Impacts

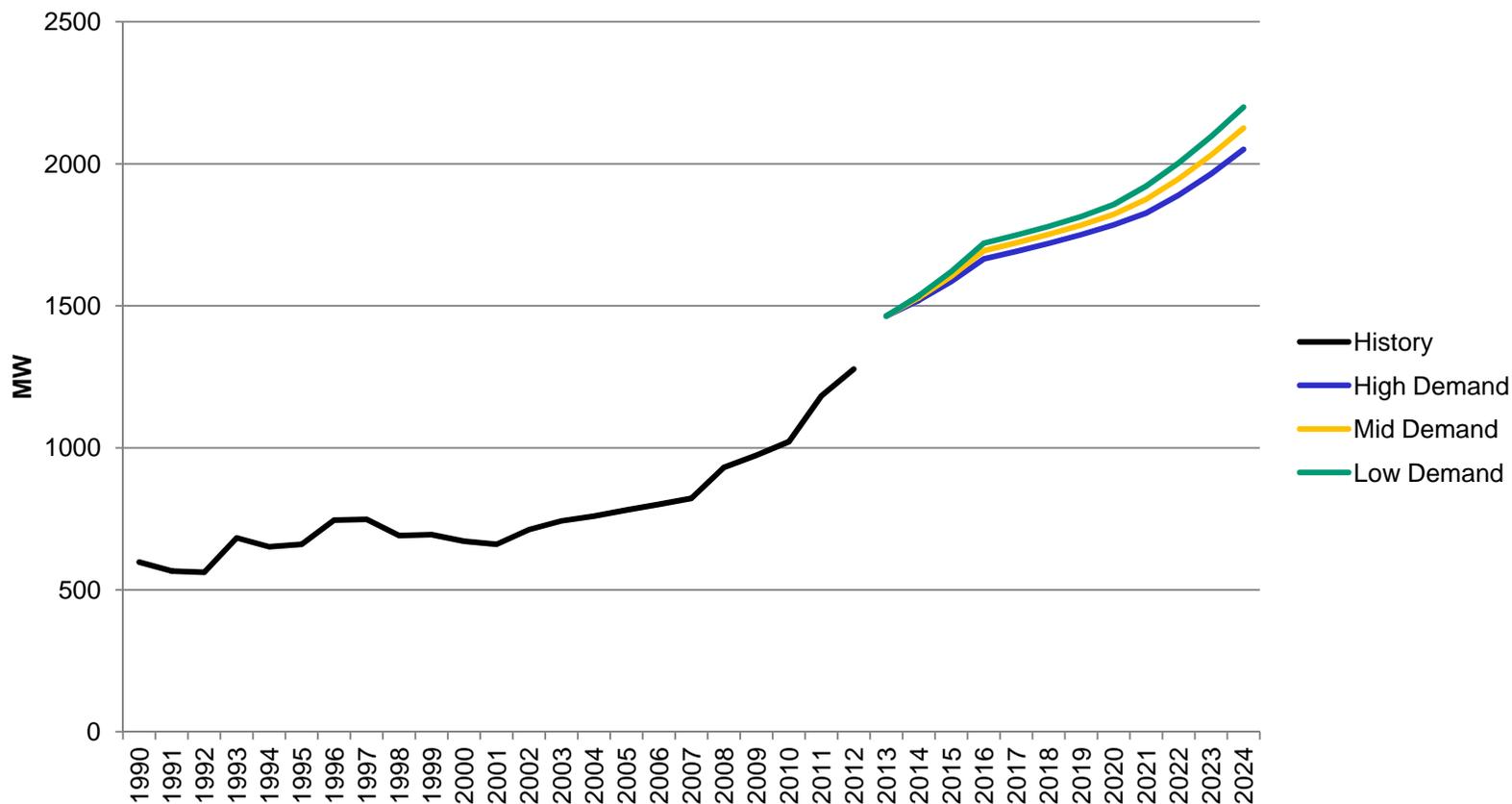
Nearly 16,000 additional GWh savings projected





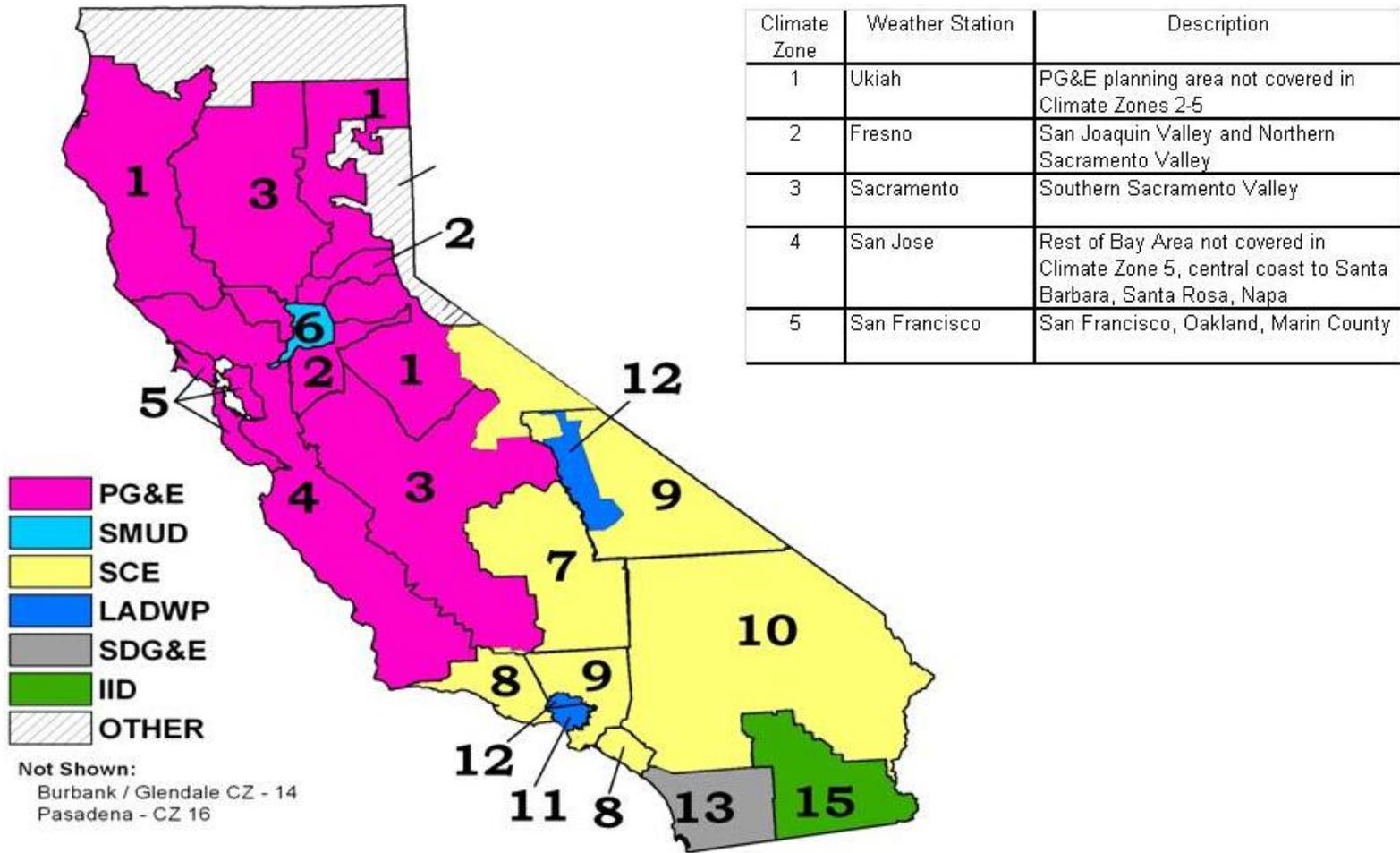
Self-Generation Peak Impacts

PV Peak impacts increase by 750 MW in mid case





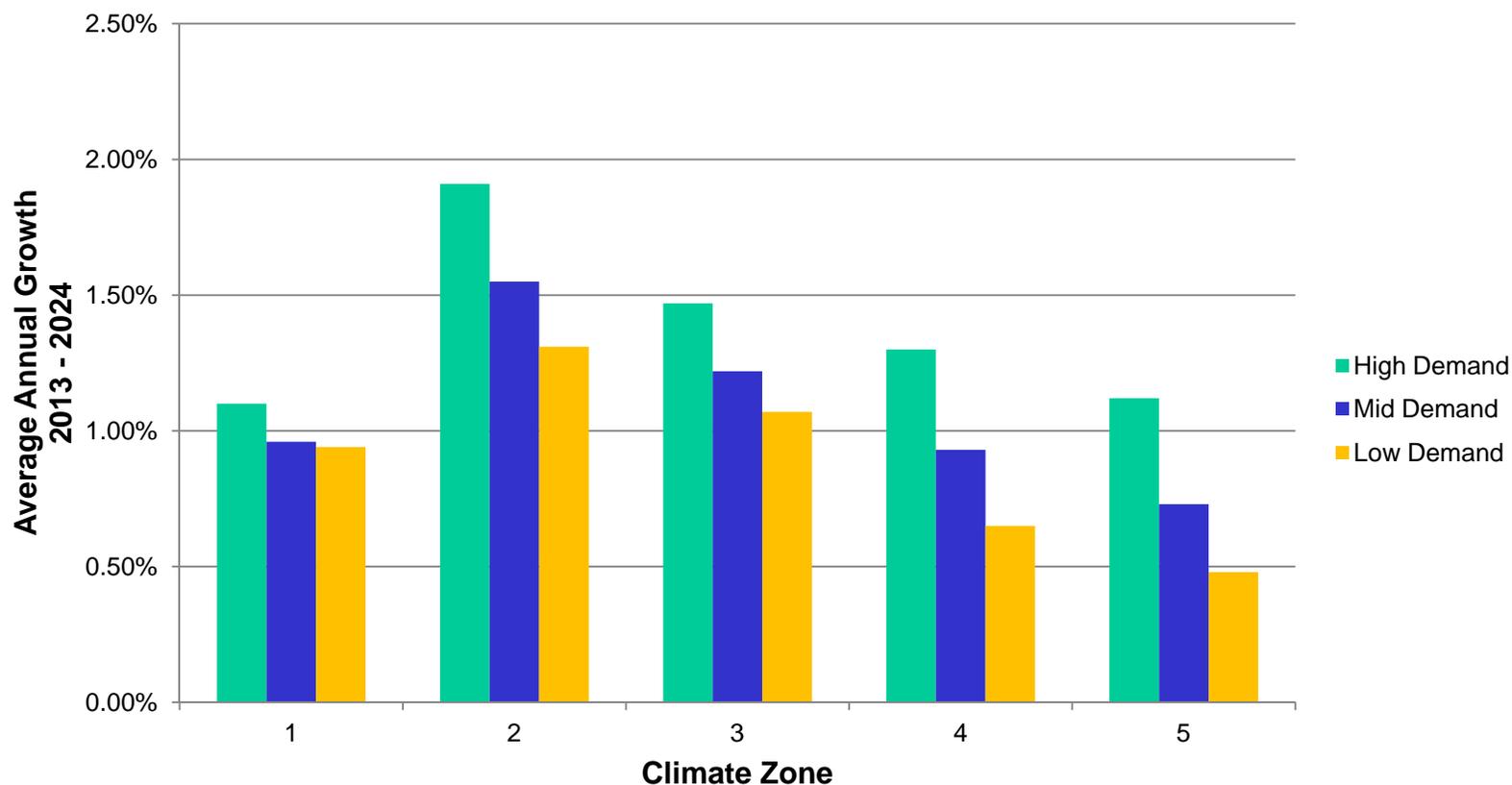
Climate Zones





Consumption Growth by Climate Zone

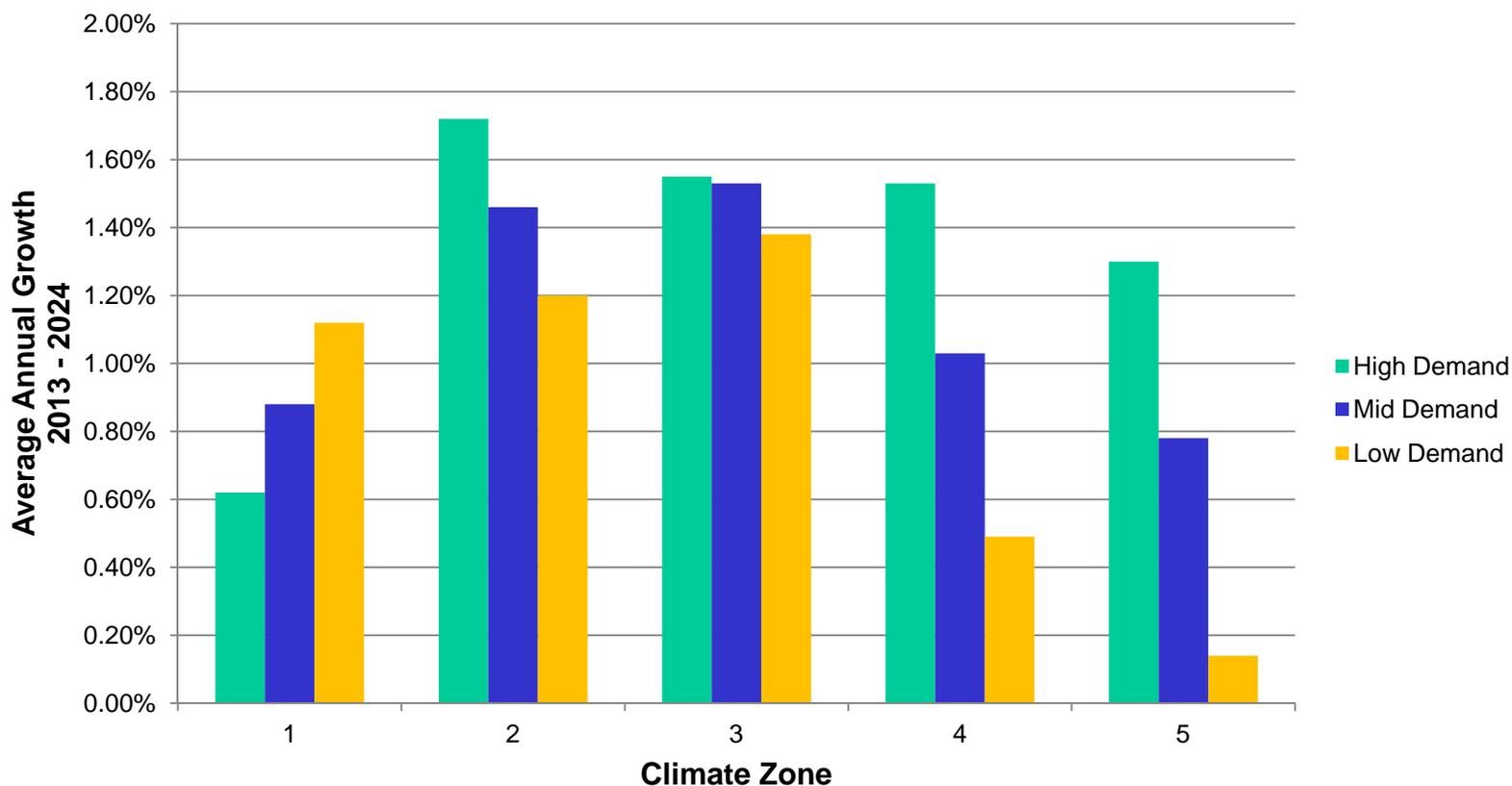
Highest growth occurs inland





Peak Growth by Climate Zone

Potential climate change impacts contribute to peak demand growth in Climate Zone 3





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Climate Zone Forecast Results

Detailed results files are available online

www.energy.ca.gov/2013_energypolicy/documents

		Consumption by Climate Zone (GWh)					Peak Demand by Climate Zone (MW)				
		1	2	3	4	5	1	2	3	4	5
High	2013	4,760	10,079	30,285	34,432	27,018	1,277	1,958	5,010	8,096	6,369
	2024	5,431	12,652	36,097	40,210	30,882	1,375	2,403	6,025	9,712	7,434
	Avg. Growth 2013-2024	1.10%	1.91%	1.47%	1.30%	1.12%	0.62%	1.72%	1.55%	1.53%	1.30%
Mid	2013	4,753	10,045	30,181	34,340	26,945	1,279	1,950	5,009	8,089	6,371
	2024	5,327	12,078	34,917	38,390	29,411	1,420	2,321	6,011	9,144	6,995
	Avg. Growth 2013-2024	0.96%	1.55%	1.22%	0.93%	0.73%	0.88%	1.46%	1.53%	1.03%	0.78%
Low	2013	4,707	9,947	29,910	34,066	26,758	1,266	1,921	4,940	8,002	6,305
	2024	5,263	11,631	33,970	36,810	28,324	1,447	2,217	5,824	8,488	6,414
	Avg. Growth 2013-2024	0.94%	1.31%	1.07%	0.65%	0.48%	1.12%	1.20%	1.38%	0.49%	0.14%



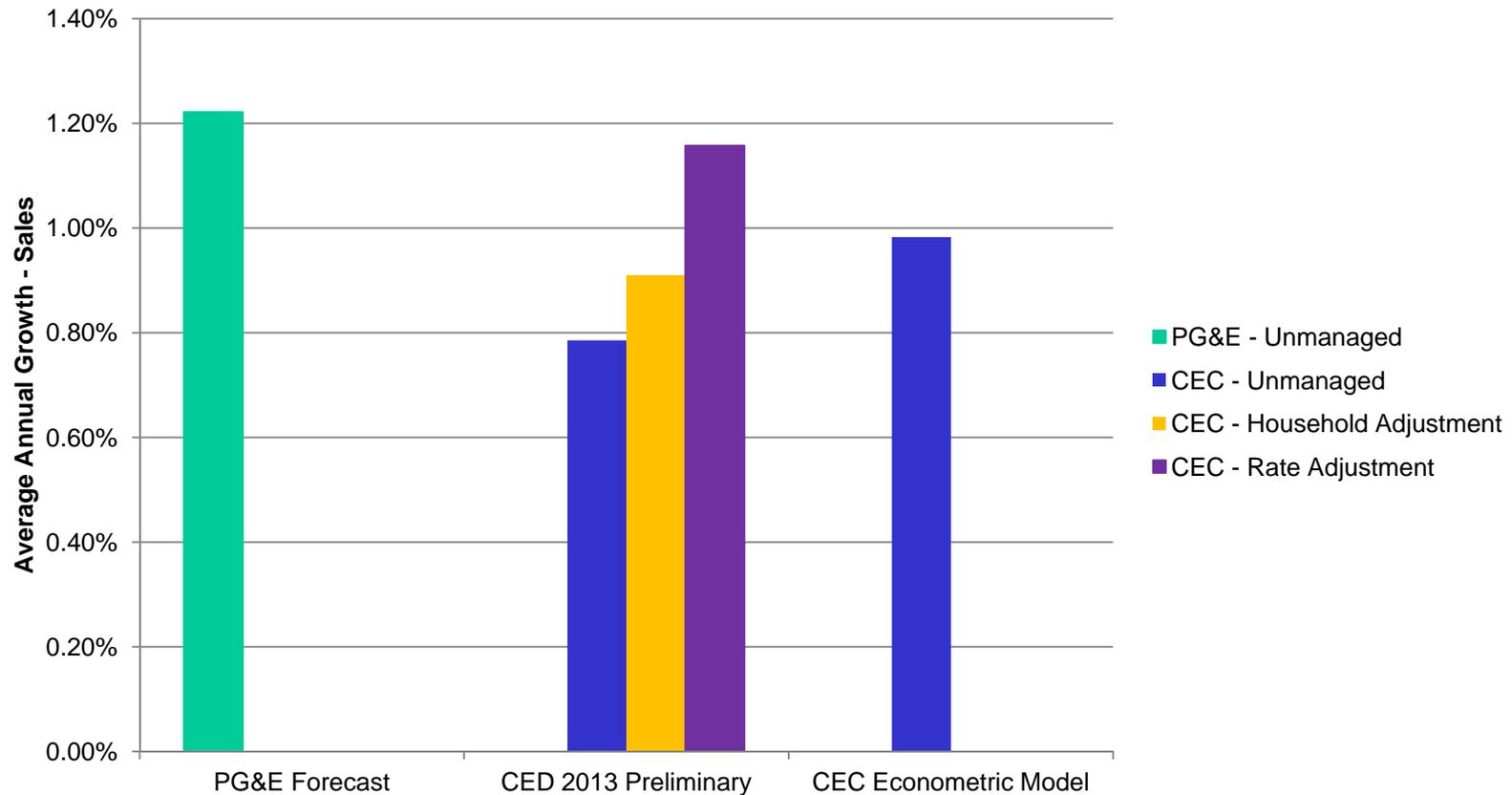
Comparison to PG&E's Forecast

- PG&E provided a managed service territory sales forecast
- Both CEC and PG&E forecasts show high residential growth and flat industrial
- PG&E forecast shows a significantly higher rate of growth in number of households
- CEC forecast projects significantly higher rates
- Adjusting for these key differences, the two sales forecasts project similar levels of growth



Comparison to PG&E's Forecast

Average annual growth in unmanaged sales forecasts is similar after adjusting for key input discrepancies





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Comparison to PG&E's Forecast

CEC peak forecast shows significant growth from 2013 to 2014

