



## California Energy Commission

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# SCE Planning Area Electricity Demand Forecasts

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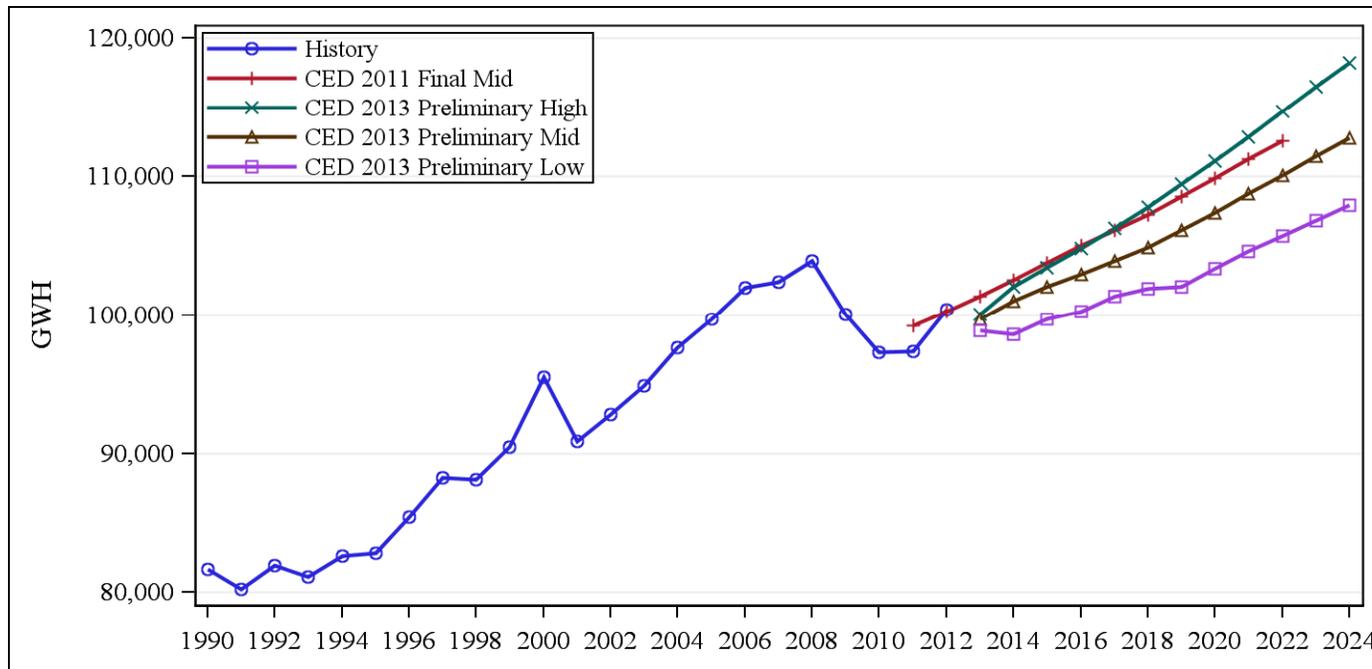
## Presentation Outline

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



## Electricity Consumption

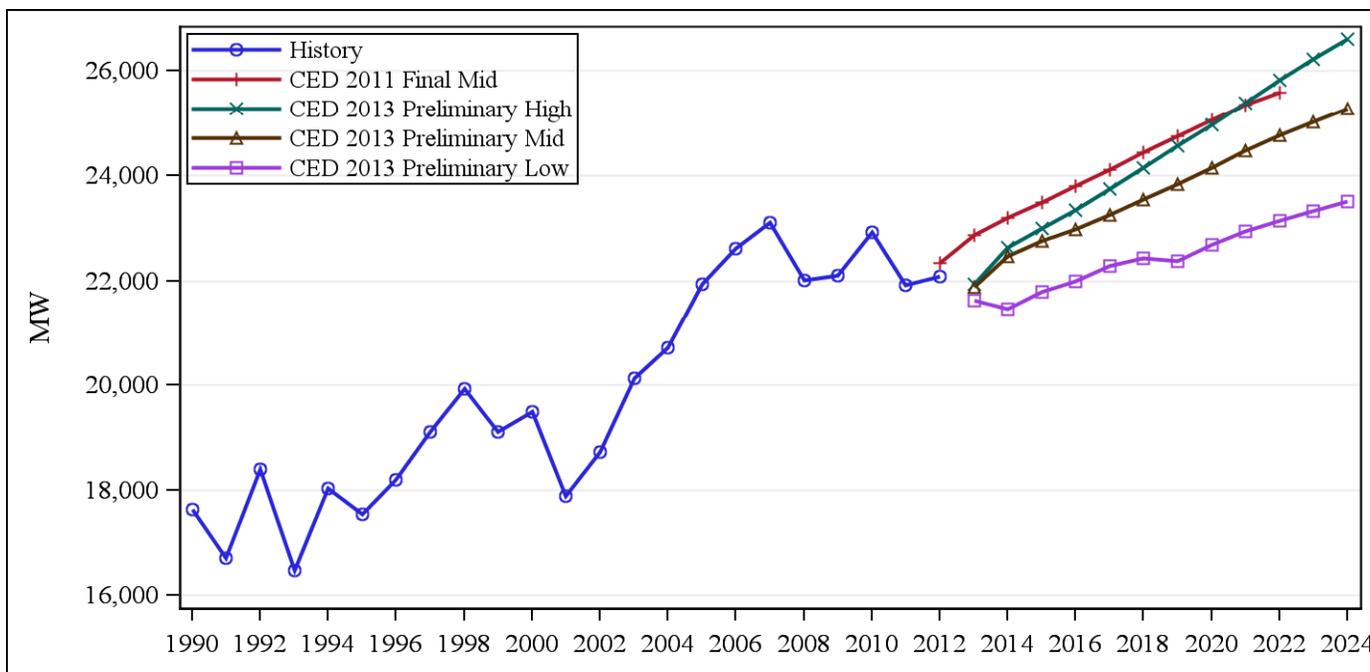
**Average annual growth 2012-2024: 1.37% in high case, 0.60% in low case**





## Peak Demand

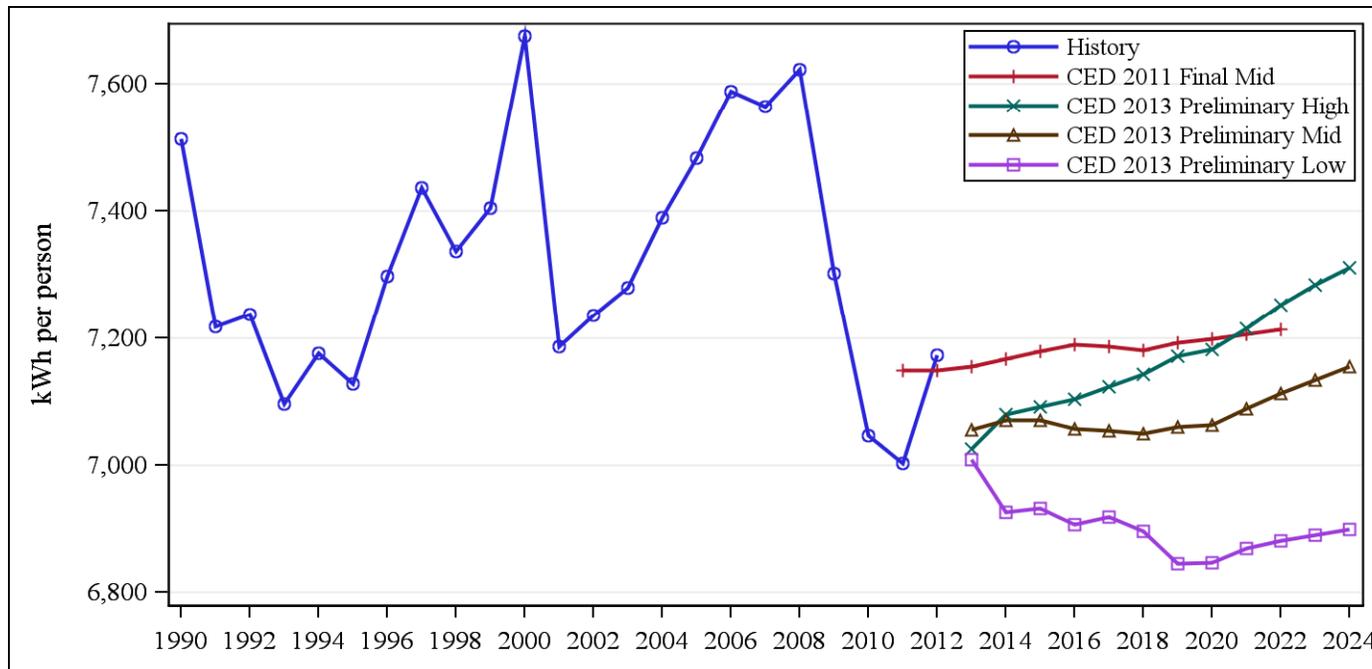
**Average annual growth 2012-2024: 1.75% in high case, 0.70% in low case**





# Per Capita Consumption

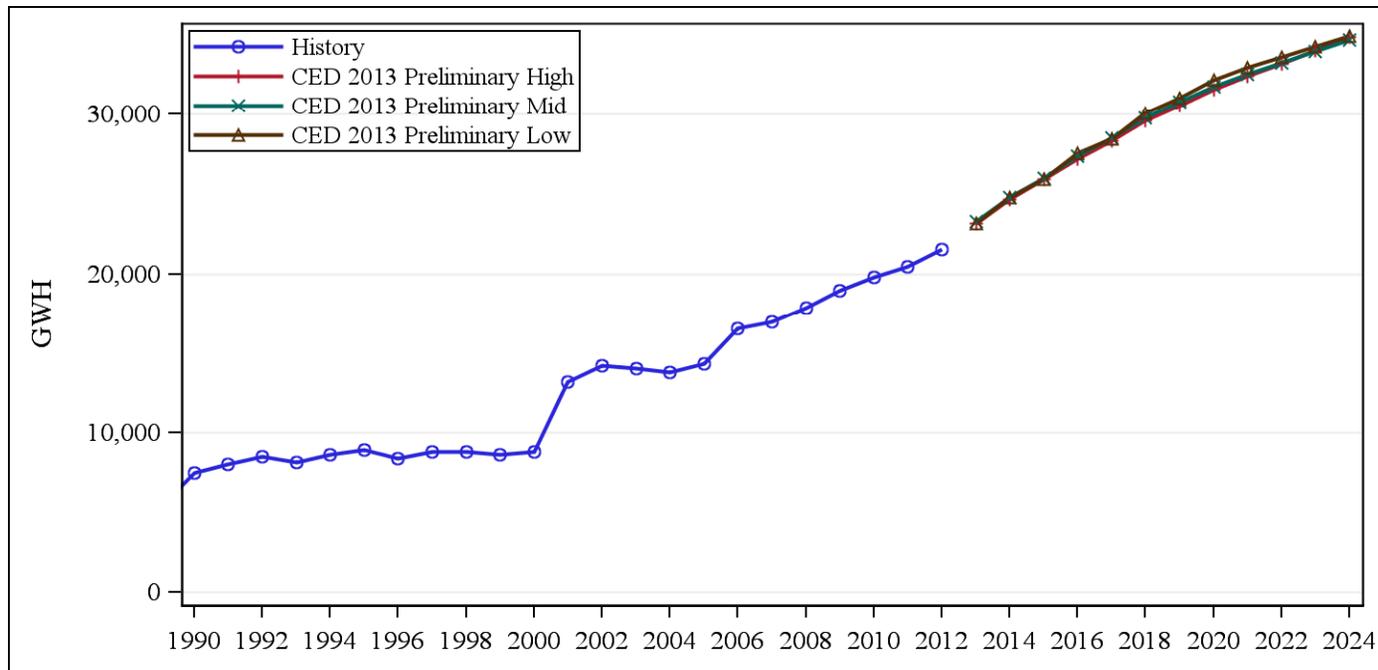
**EVs push per capita consumption up toward the end of the forecast period**





# Efficiency Impacts

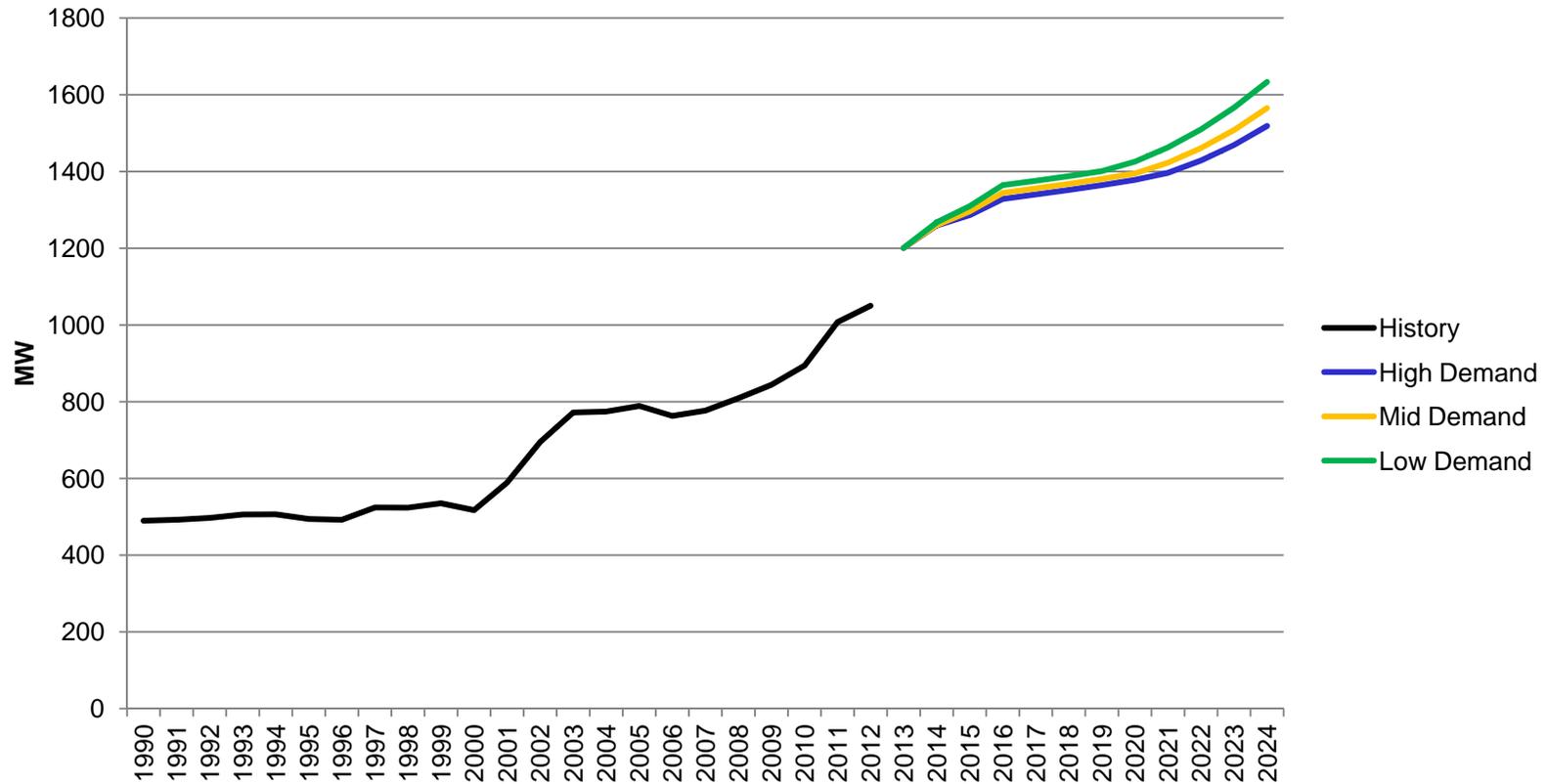
**More than 13,000 additional GWH savings projected**





# Self-Generation Peak Impacts

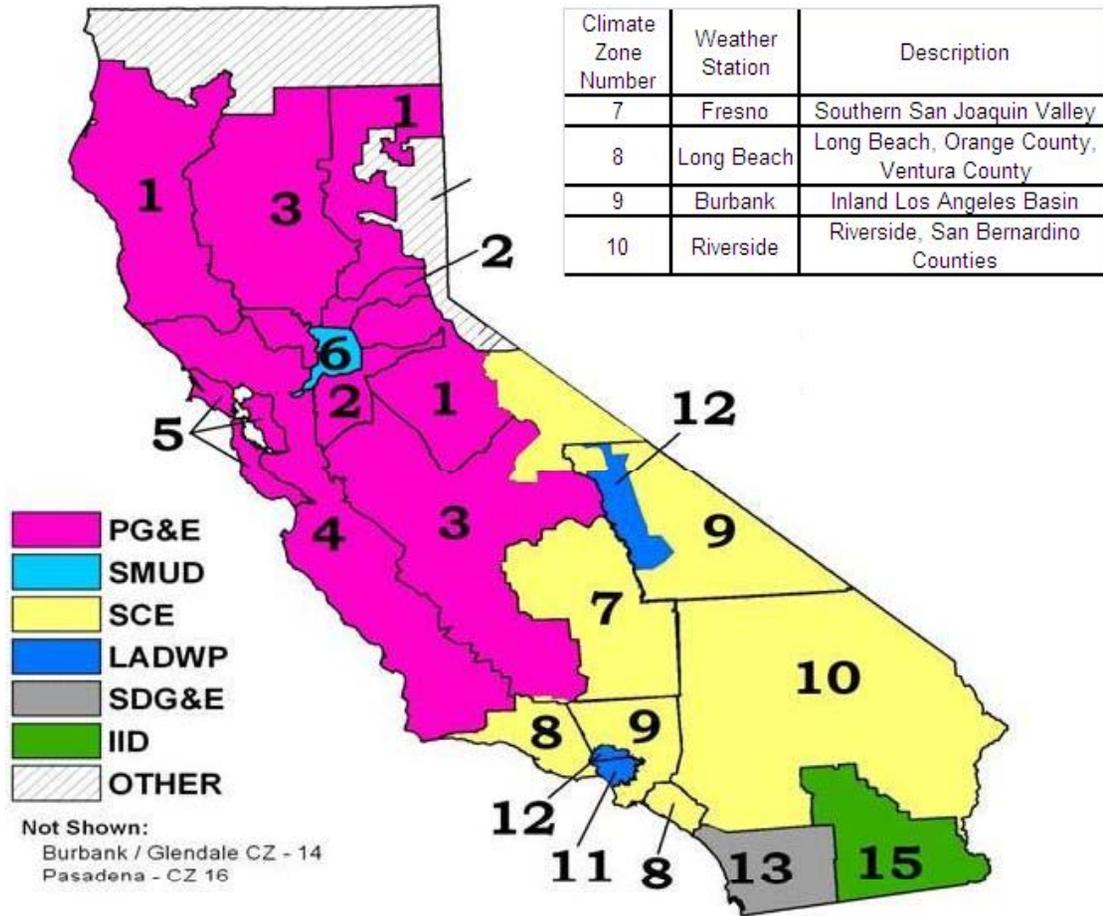
**PV Peak impacts increase by nearly 450 MW in the mid case**





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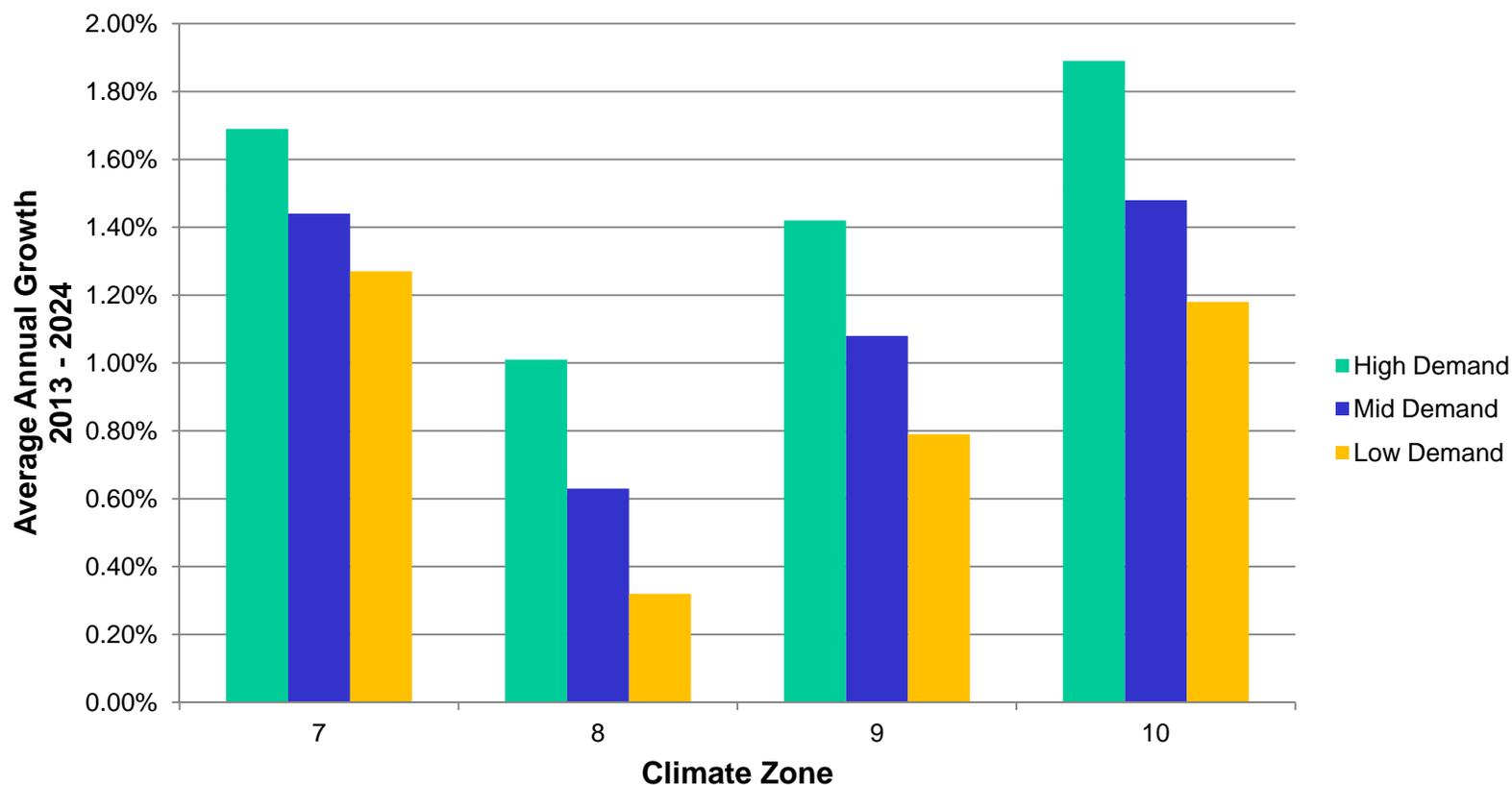
## Climate Zones





# Consumption Growth by Climate Zone

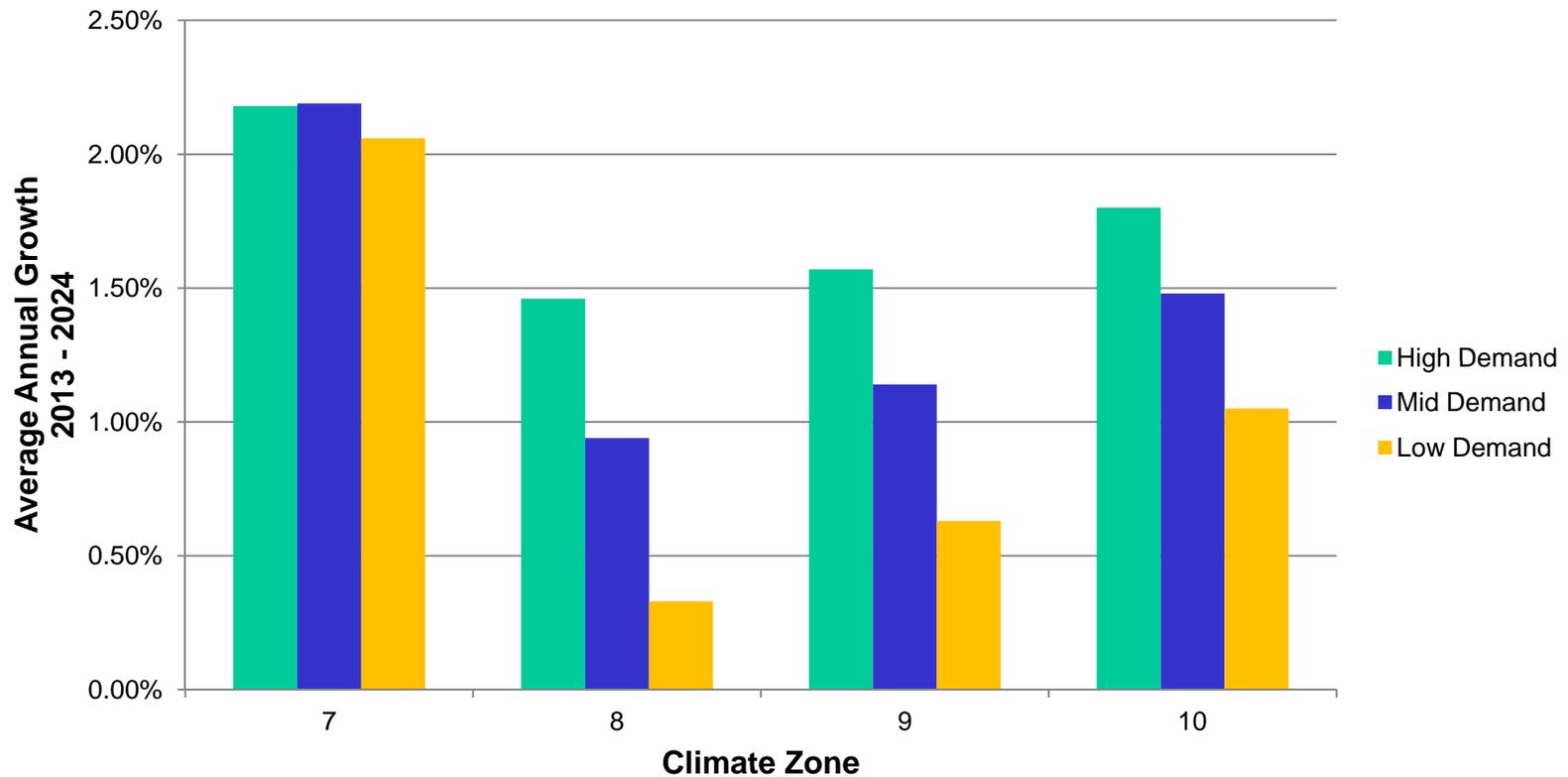
Highest growth occurs inland





# Peak Growth by Climate Zone

Potential climate change impacts contribute to faster peak growth in Climate Zone 7





# Climate Zone Forecast Results

Detailed results files are available online

[www.energy.ca.gov/2013\\_energypolicy/documents](http://www.energy.ca.gov/2013_energypolicy/documents)

		Consumption by Climate Zone (GWh)				Peak Demand by Climate Zone (MW)			
		7	8	9	10	7	8	9	10
High	2013	6,063	42,263	25,343	26,430	989	8,385	6,810	5,756
	2024	7,415	47,668	30,031	33,078	1,281	9,981	8,213	7,127
	Avg. Growth 2013-2024	1.69%	1.01%	1.42%	1.89%	2.18%	1.46%	1.57%	1.80%
Mid	2013	6,042	42,079	25,280	26,349	988	8,368	6,795	5,743
	2024	7,174	45,362	28,765	31,428	1,281	9,359	7,785	6,851
	Avg. Growth 2013-2024	1.44%	0.63%	1.08%	1.48%	2.19%	0.94%	1.14%	1.48%
Low	2013	5,992	41,746	25,056	26,108	975	8,271	6,710	5,665
	2024	6,974	43,358	27,529	30,068	1,244	8,603	7,232	6,419
	Avg. Growth 2013-2024	1.27%	0.32%	0.79%	1.18%	2.06%	0.33%	0.63%	1.05%



# Comparison to SCE's Forecast

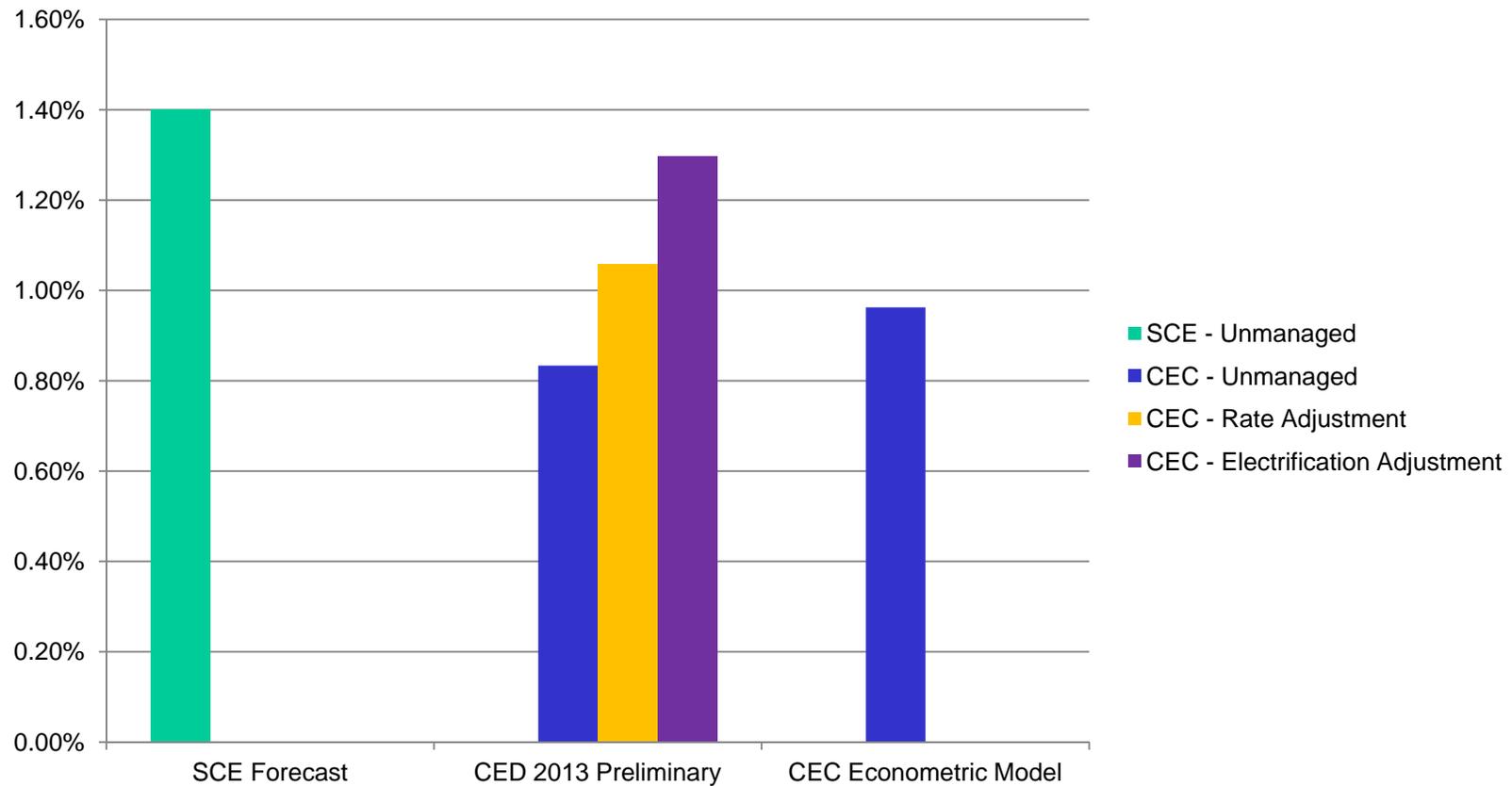
- SCE provided a managed service territory sales forecast
- SCE forecast includes higher levels of electrification
- CEC forecast projects higher rates
- Adjusting for these key differences, the two sales forecasts project similar levels of growth
- CEC peak forecast shows a decline from 2012 to 2013 while SCE forecasts an increase



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# Comparison to SCE's Forecast

**Average annual growth in unmanaged sales forecasts is closer after adjusting for rates and electrification**





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# Comparison to SCE's Forecast

## Average peak growth from 2013 to 2024

