



California Energy Commission

SCE Planning Area Electricity Demand Forecasts

May 30, 2013

Nick Fugate
Demand Analysis Office
Electricity Supply Analysis Division



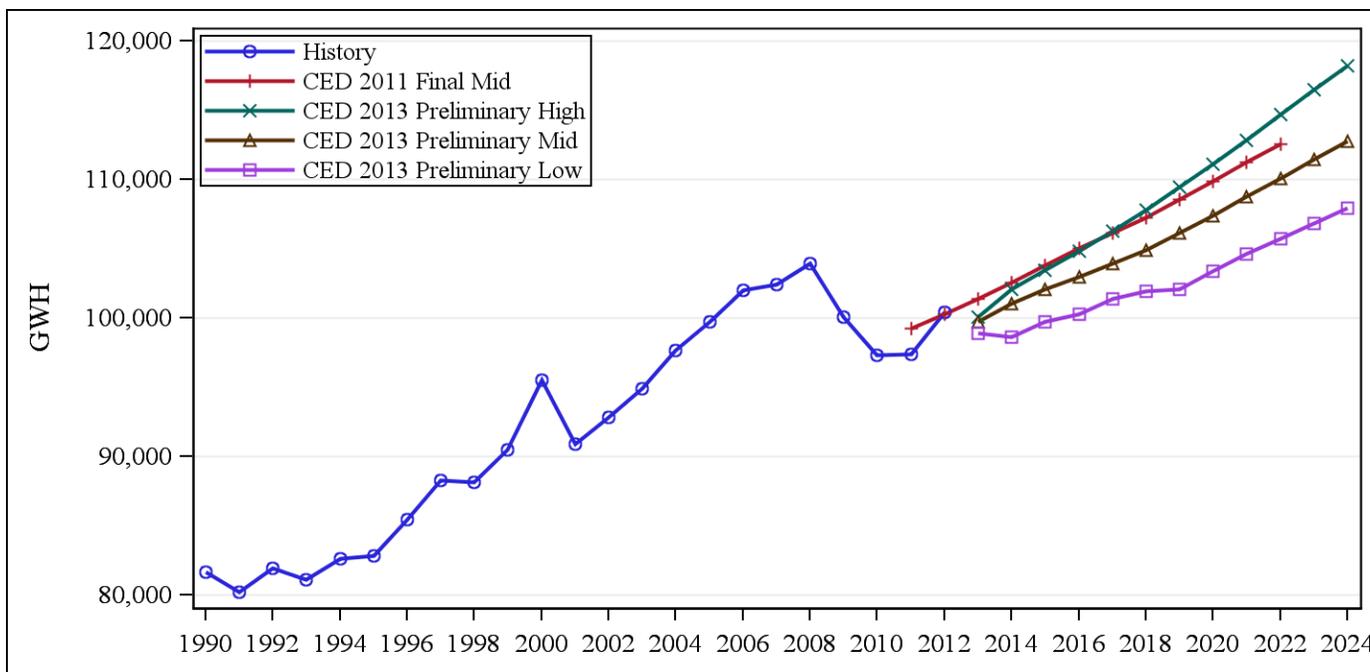
Presentation Outline

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



Electricity Consumption

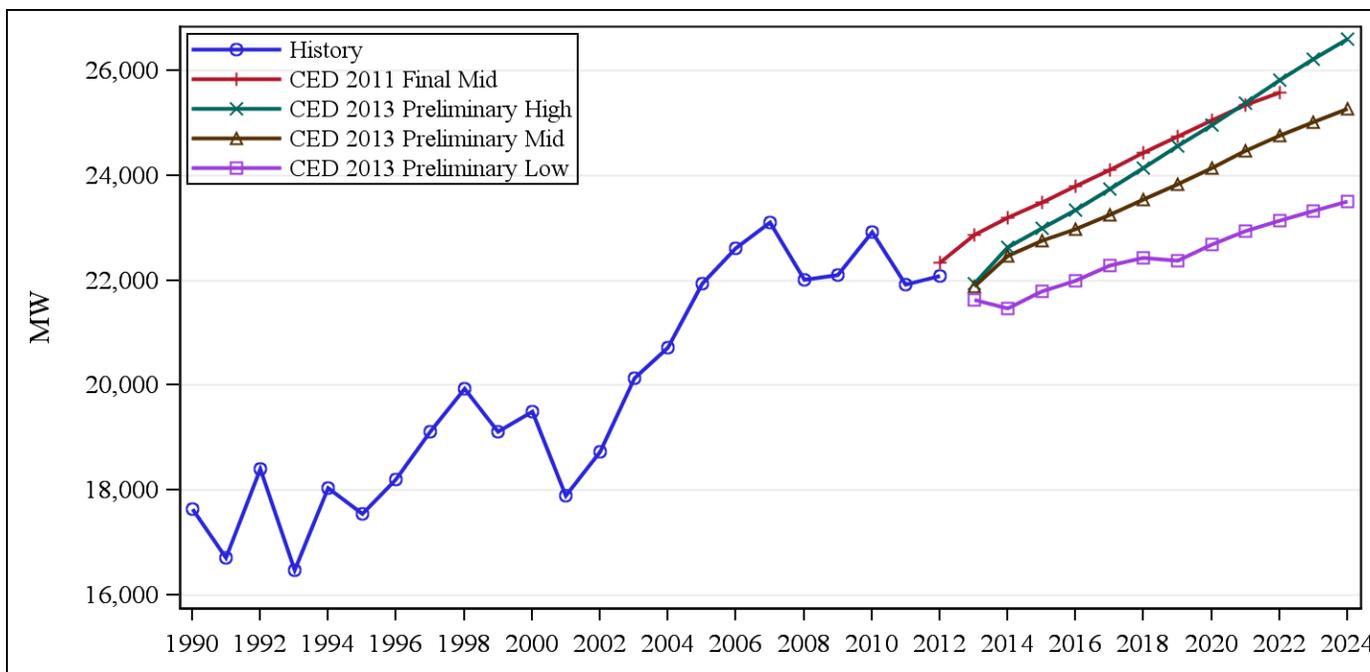
Average annual growth 2012-2024: 1.37% in high case, 0.60% in low case





Peak Demand

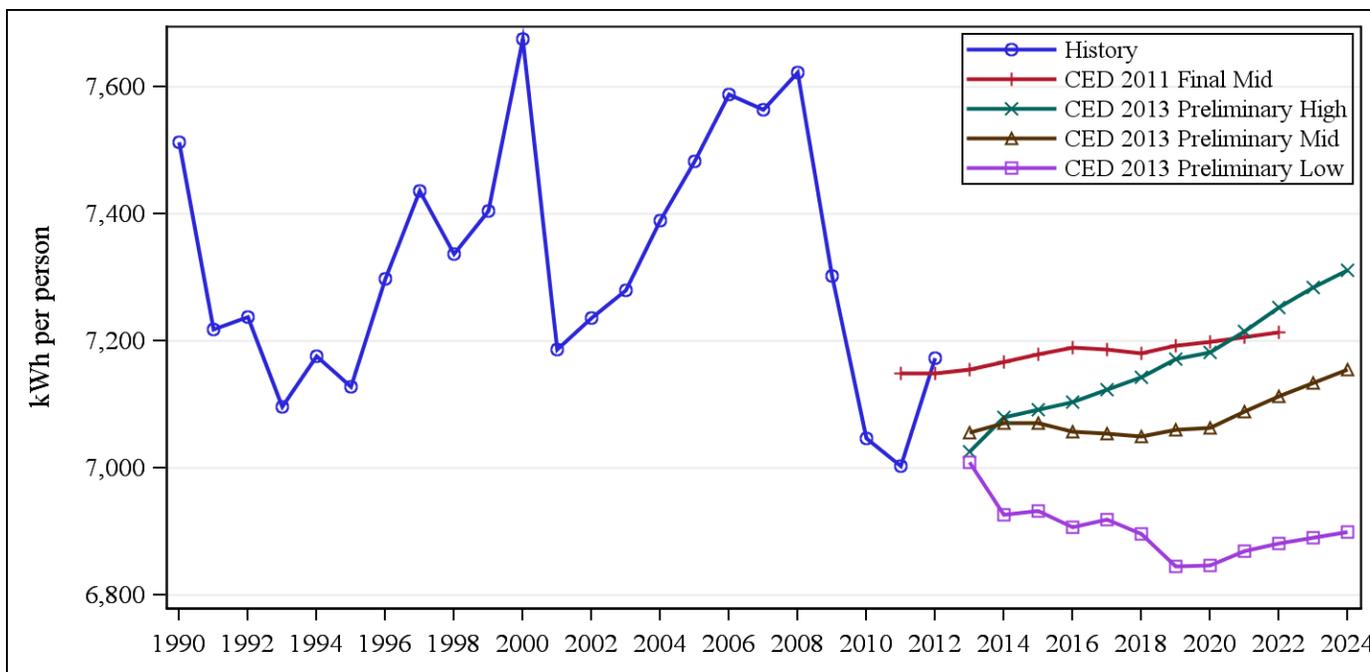
Average annual growth 2012-2024: 1.75% in high case, 0.70% in low case





Per Capita Consumption

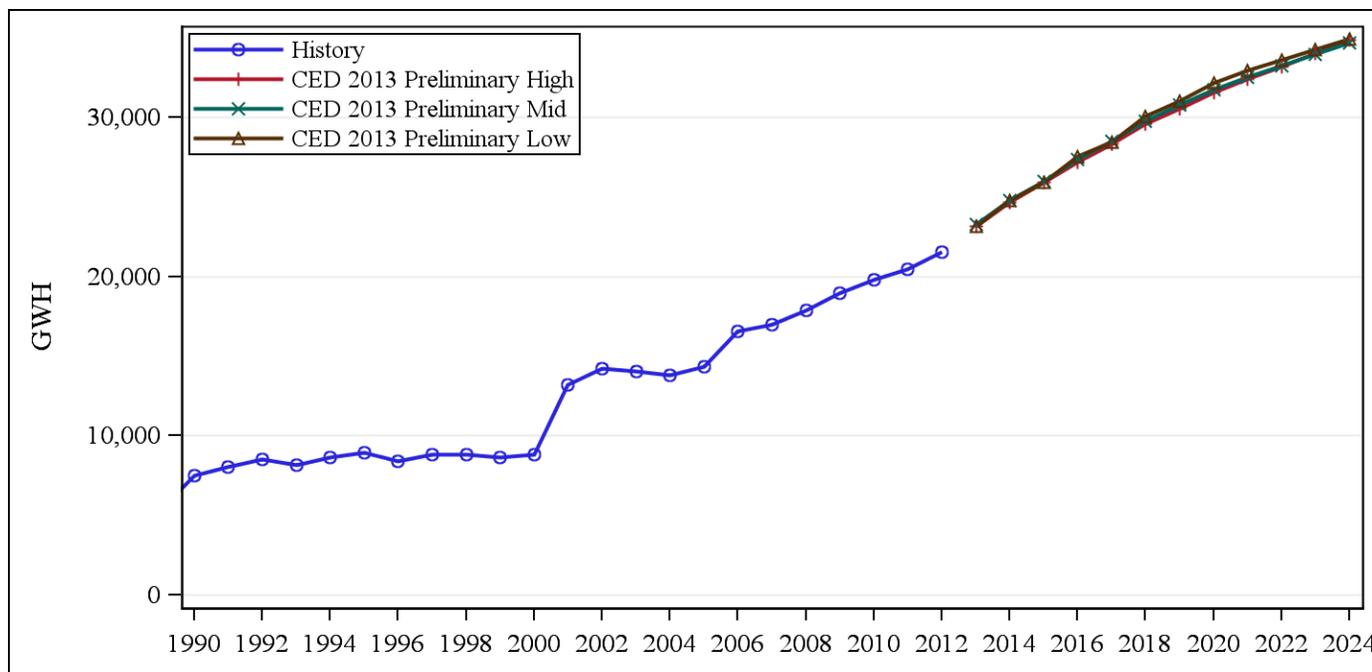
EVs push per capita consumption up toward the end of the forecast period





Efficiency Impacts

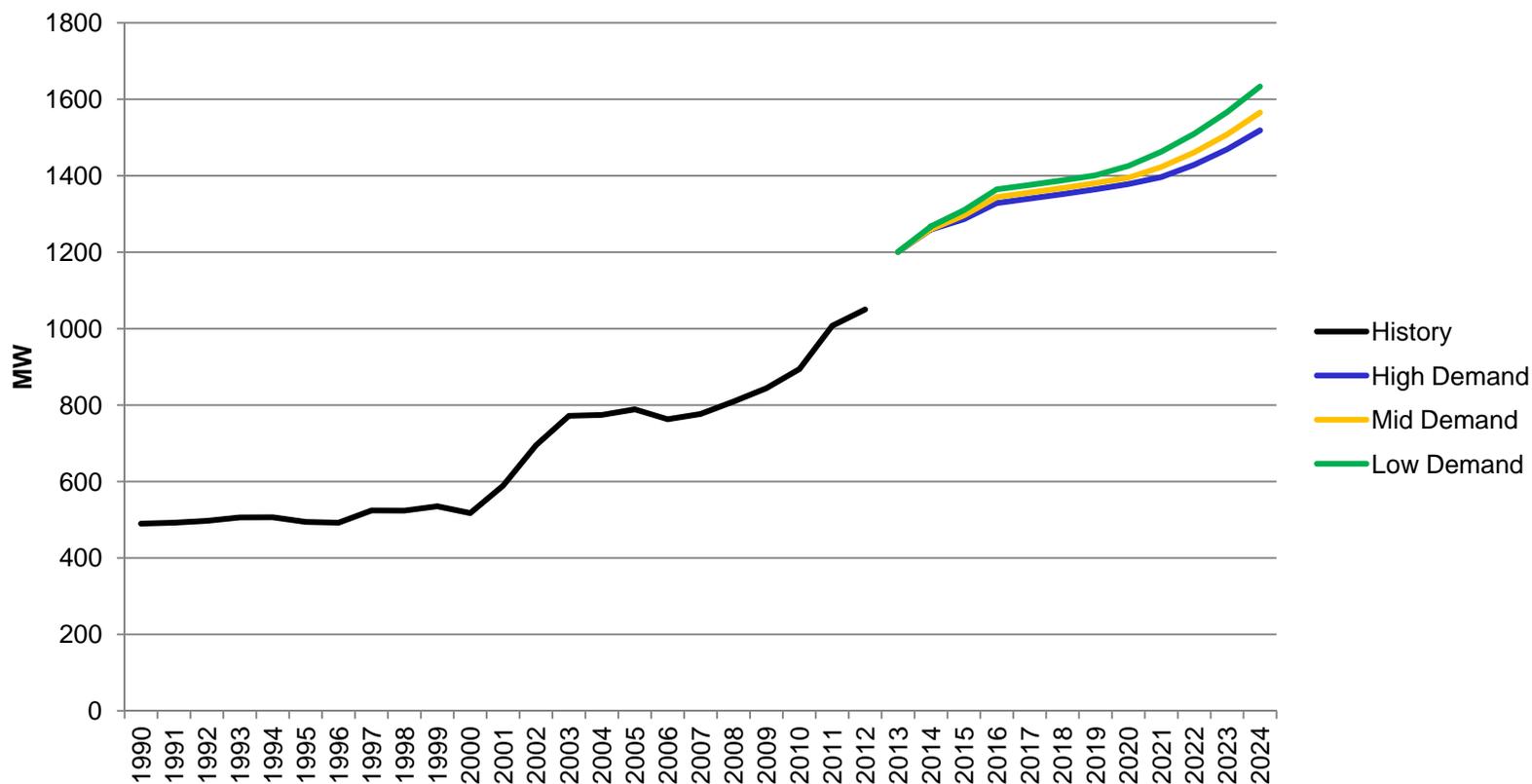
More than 13,000 additional GWH savings projected





Self-Generation Peak Impacts

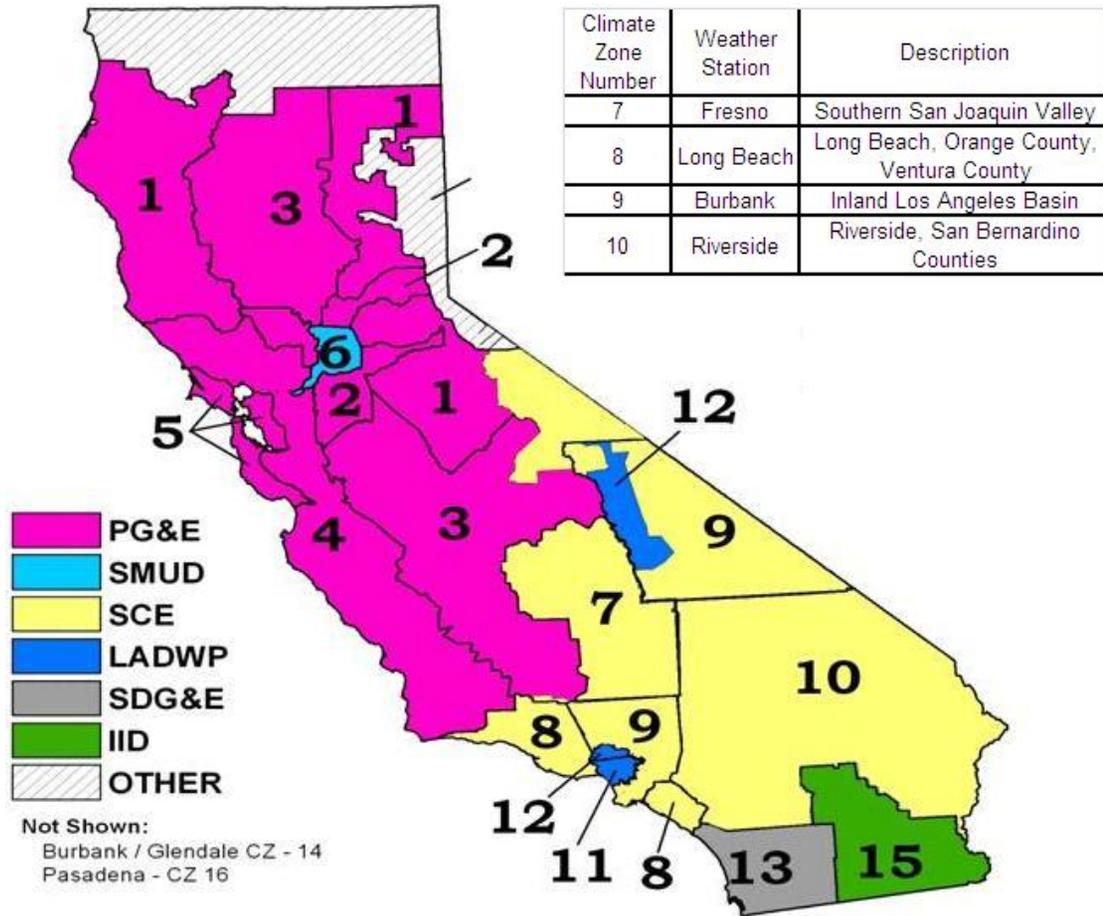
PV Peak impacts increase by nearly 450 MW in the mid case





California Energy Commission

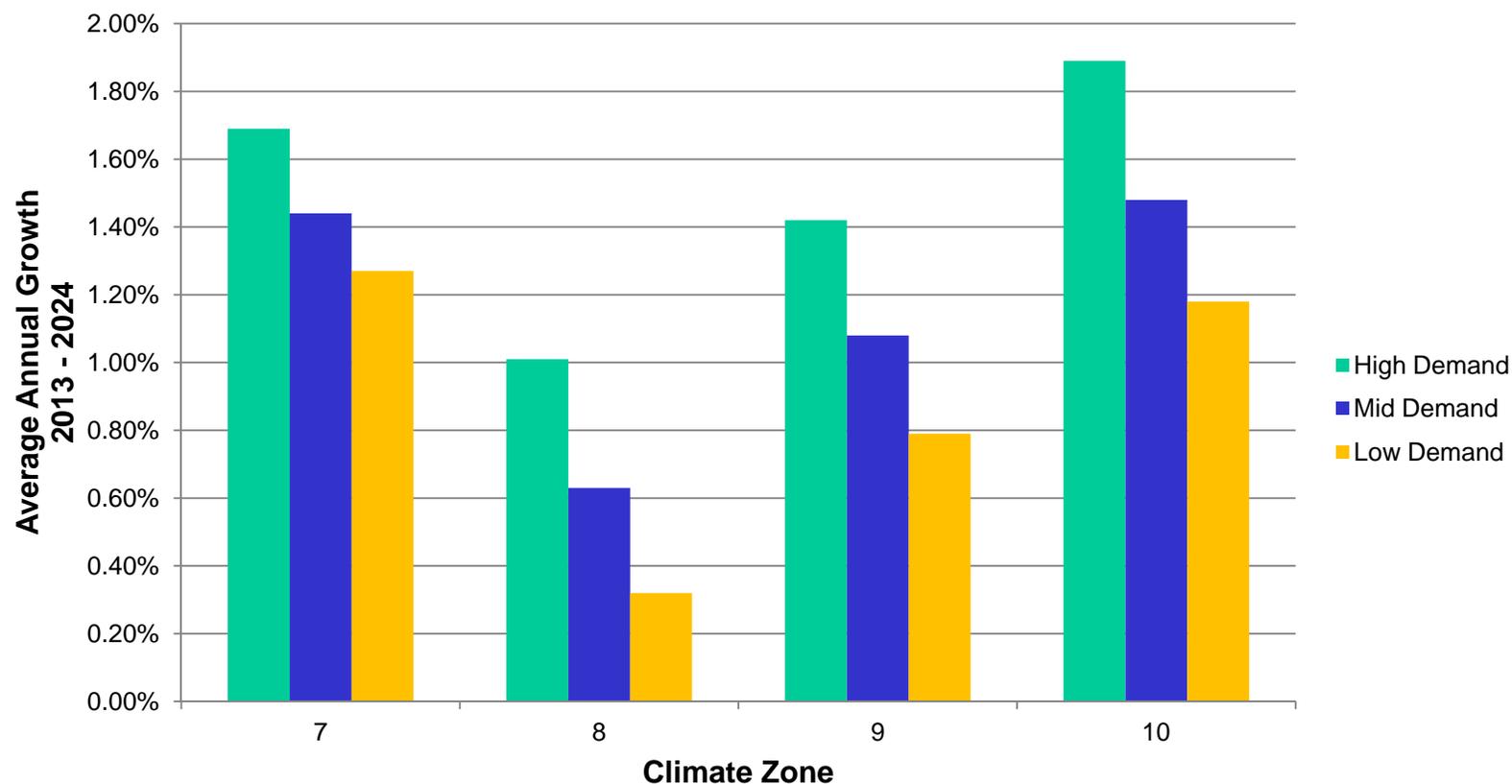
Climate Zones





Consumption Growth by Climate Zone

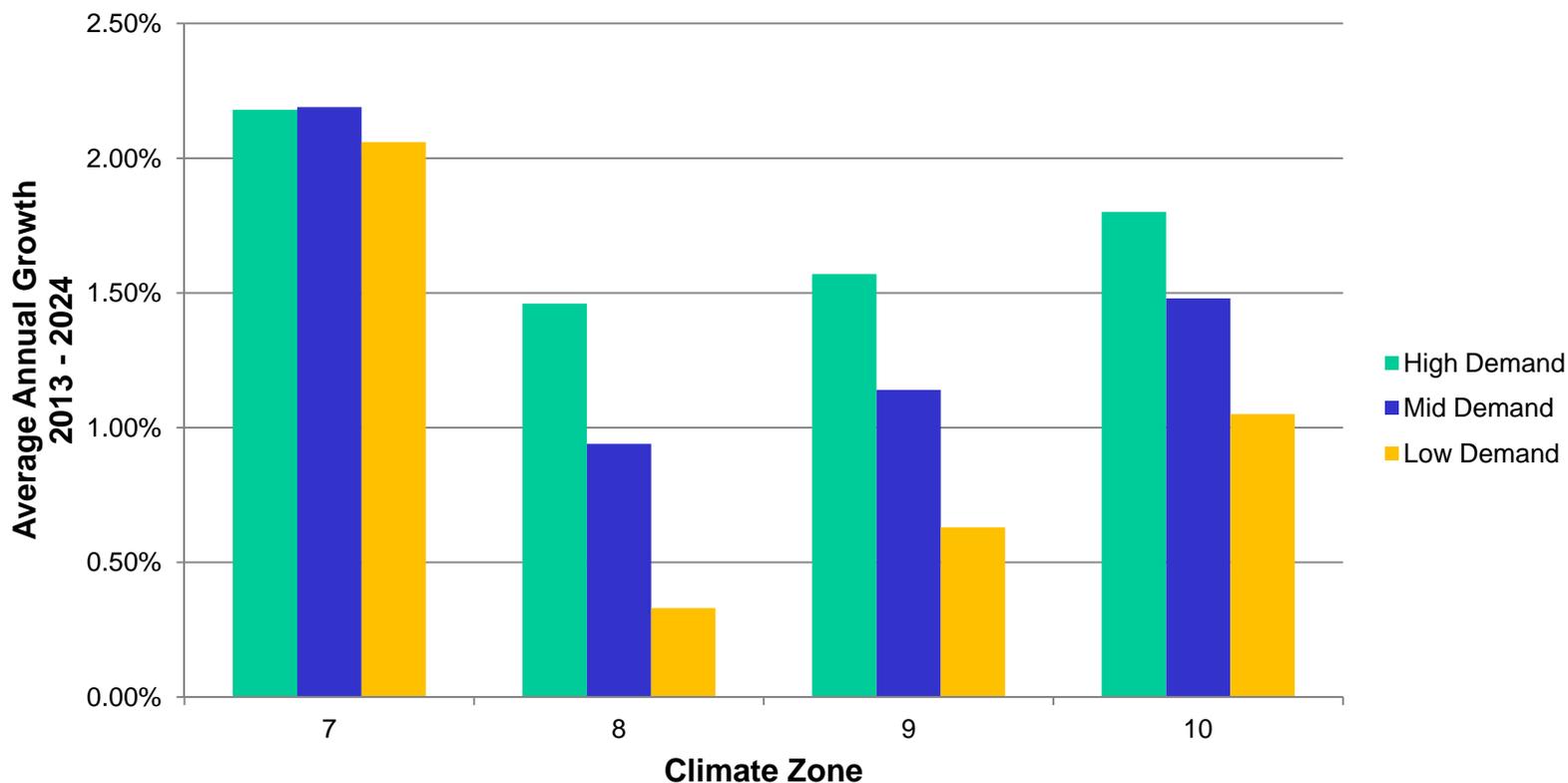
Highest growth occurs inland





Peak Growth by Climate Zone

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





California Energy Commission

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)			
		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

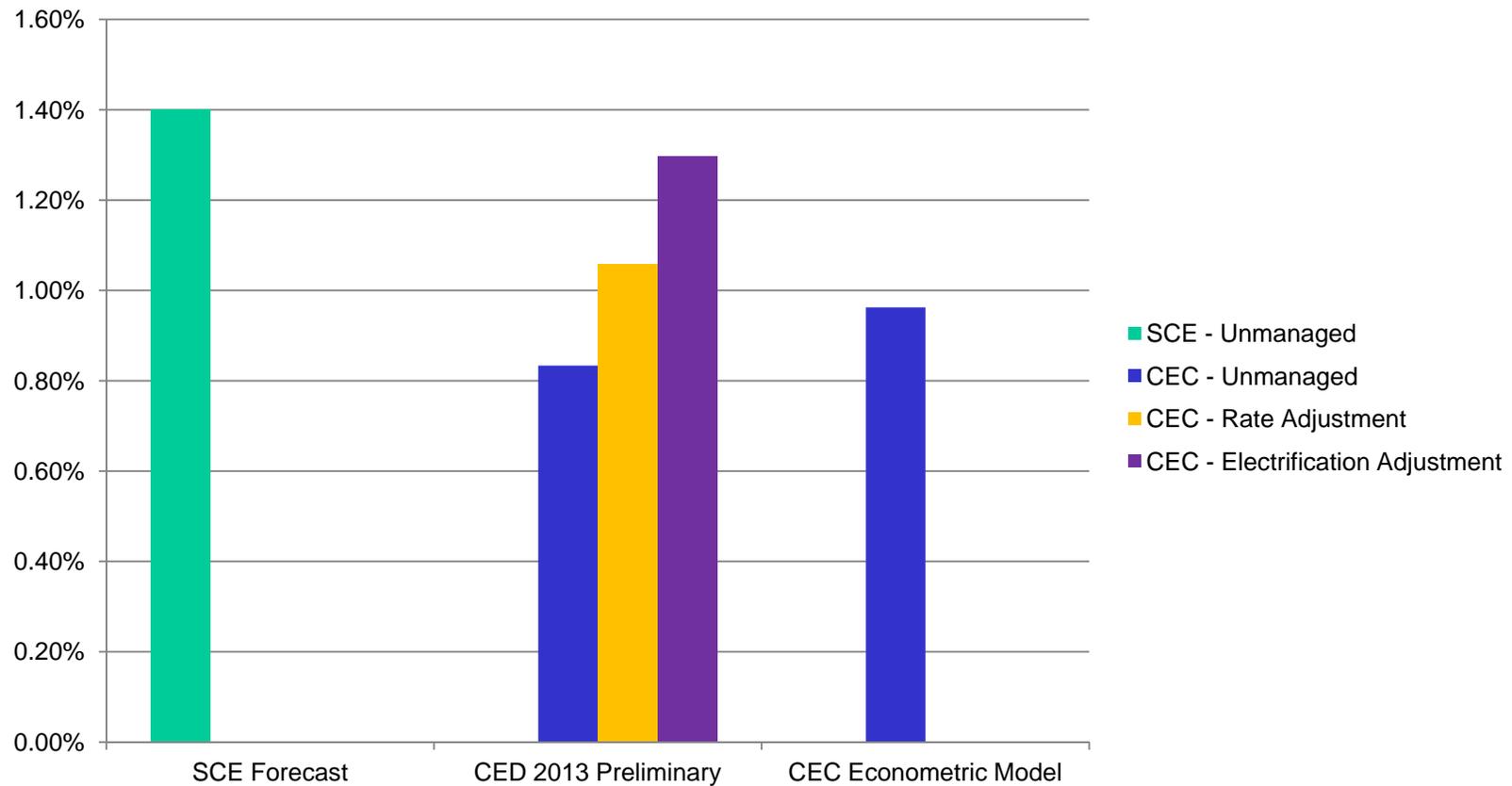
- SCE provided a managed service territory sales forecast
- SCE forecast includes higher levels of electrification
- CEC forecast projects higher rates
- Adjusting for these key differences, the two sales forecasts project similar levels of growth
- CEC peak forecast shows a decline from 2012 to 2013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



California Energy Commission

Comparison to SCE's Forecast

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





California Energy Commission

Comparison to SCE's Forecast

Average peak growth from 2013 to 2024

