

## DOCKETED

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# California Energy Commission Preliminary Electric and Natural Gas Baseline Forecast

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Powering forward. Together.



- Purpose: Comparison of “Base” forecast

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- Base Forecast is the underlying structure of the forecast
- Unlikely CEC and SMUD staff will have similar projections of energy efficiency, behind the meter PV, and electric vehicle battery charging.

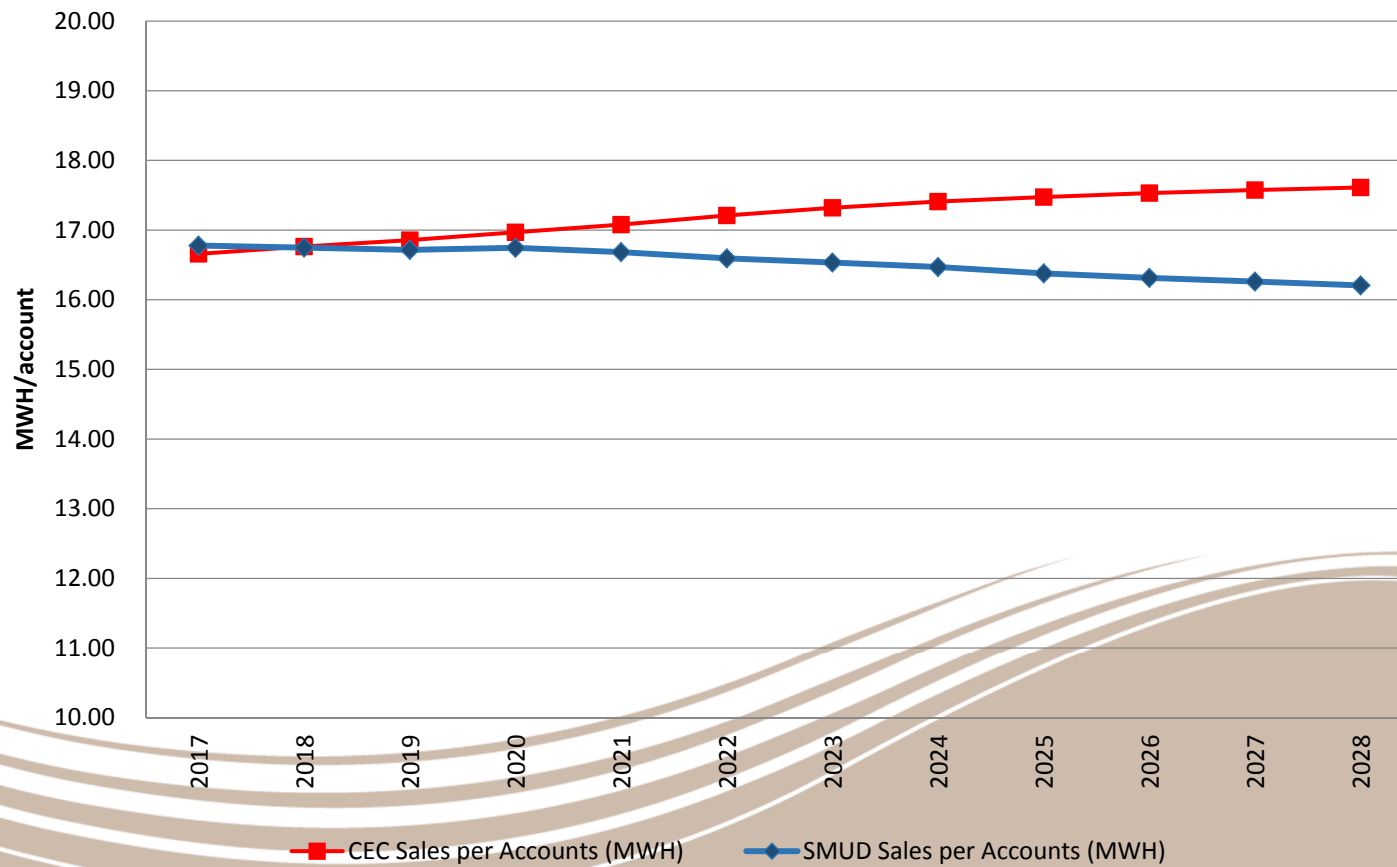
- Procedure for Comparison

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- Develop “Base” forecast by removing energy efficiency, PV and EV charging.
  - Compare base forecast
  - Develop and compare forecast metrics

# Comparison of Base Sales Forecast

Base Sales Forecast Comparisons (GWH)							
	CEC	CEC PV	CEC EV	CEC EE	CEC Base	SMUD Customer Accounts	CEC Sales per Accounts (MWH)
2017	10,394	73	9	0	10,458	627,825	16.66
2018	10,487	149	18	0	10,618	633,395	16.76
2019	10,602	211	29	0	10,783	639,766	16.86
2020	10,735	269	39	0	10,964	646,172	16.97
2021	10,866	332	50	0	11,147	652,729	17.08
2022	11,013	398	61	0	11,350	659,465	17.21
2023	11,148	466	73	0	11,542	666,372	17.32
2024	11,277	532	84	0	11,724	673,430	17.41
2025	11,395	593	95	0	11,893	680,604	17.47
2026	11,511	653	105	0	12,059	687,899	17.53
2027	11,614	720	115	0	12,219	695,292	17.57
2028	11,720	780	124	0	12,376	702,785	17.61
	SMUD	SMUD PV	SMUD EV	SMUD EE	SMUD Base	SMUD Customer Accounts	SMUD Sales per Accounts (MWH)
2017	10,420	70	11	126	10,605	627825	16.89
2018	10,362	140	22	237	10,717	633395	16.92
2019	10,280	210	33	390	10,847	639766	16.95
2020	10,251	281	44	533	11,020	646172	17.05
2021	10,318	308	69	673	11,230	652729	17.20
2022	10,248	336	94	793	11,283	659465	17.11
2023	10,192	364	119	922	11,358	666372	17.05
2024	10,126	393	144	1,058	11,433	673430	16.98
2025	10,104	420	169	1,133	11,487	680604	16.88
2026	10,088	448	194	1,221	11,562	687899	16.81
2027	10,109	476	219	1,281	11,647	695292	16.75
2028	10,103	505	244	1,366	11,730	702785	16.69

# Comparison of Base Sales Forecast



# Comparison of Base Peak Forecast

Base Peak Forecast Comparisons (MW)						
	CEC Peak Forecast	CEC PV	CEC EE	CEC Base Peak	SMUD Accounts	CEC Peak Per Account (kW)
2017	3,057	15	0	3,072	623,277	4.93
2018	3,086	32	0	3,118	627,825	4.97
2019	3,114	45	0	3,159	633,395	4.99
2020	3,152	57	0	3,209	639,766	5.02
2021	3,192	71	0	3,263	646,172	5.05
2022	3,237	85	0	3,322	652,729	5.09
2023	3,279	99	0	3,378	659,465	5.12
2024	3,319	113	0	3,431	666,372	5.15
2025	3,354	125	0	3,479	673,430	5.17
2026	3,390	137	0	3,526	680,604	5.18
2027	3,421	149	0	3,571	687,899	5.19
2028	3,453	161	0	3,614	695,292	5.20
	SMUD Forecast	SMUD PV	SMUD EE	SMUD Base Peak	SMUD Accounts	SMUD Peak Per Account (kW)
2017	2,969	16	22	3,007	623277	4.82
2018	2,960	33	39	3,032	627825	4.83
2019	2,881	49	65	2,995	633395	4.73
2020	2,867	65	85	3,017	639766	4.72
2021	2,887	72	107	3,066	646172	4.74
2022	2,875	79	142	3,096	652729	4.74
2023	2,868	85	165	3,118	659465	4.73
2024	2,851	92	189	3,132	666372	4.70
2025	2,855	98	203	3,156	673430	4.69
2026	2,855	105	218	3,178	680604	4.67
2027	2,864	111	232	3,207	687899	4.66
2028	2,858	118	245	3,221	695292	4.63

# Comparison of Base Peak Forecast

