

Form 1.5b - STATEWIDE
 California Energy Demand 2019-2030 Managed Forecast - Mid Demand / Mid A&E Ccs
 1-to-2 Net Electricity Peak Demand by Agency and Balancing Authority (MW)

Balancing Authority	Agency	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	Average Annual Growth (2019-2030)	CAISO area Non-IOLUCCA,ESP demand flag	
Greater Bay Area Subtotal	PG&E Service Area - Greater Bay Area	7,223	7,413	6,970	6,930	6,960	6,998	6,972	6,954	6,977	7,022	7,025	7,062	-0.2%		
	NCFA - Greater Bay Area	198	194	190	188	186	185	185	185	187	188	188	188	-0.4%		
	Power Enterprise of the San Francisco PUC	125	120	117	117	117	117	117	117	117	118	118	118	-0.4%		
	Siicon Valley Power	530	542	540	540	551	542	549	570	570	574	574	575	0.7%		
	Other NPES LSE - Bay Area	5	5	5	5	5	5	5	5	5	5	5	5	-0.6%		
	CDWR - Greater Bay Area	55	55	57	57	57	57	57	56	56	56	56	56	0.0%		
	WAPA - Greater Bay Area	52	52	52	52	52	52	52	52	52	52	52	52	0.0%		
Greater Bay Area Subtotal		8,188	8,083	7,983	7,982	7,973	7,976	7,967	7,957	7,964	8,012	8,013	8,061	-0.14%		
Total North of Path 15	PG&E Service Area - Non Bay Area	9,955	9,909	9,606	9,545	9,513	9,507	9,540	9,580	9,616	9,691	9,682	9,714	-0.2%		
	NCFA - Non Bay Area	711	707	702	700	699	698	698	698	699	700	700	700	-0.4%		
	Other NPES LSE - Non Bay Area	7	7	7	7	7	7	7	7	7	7	7	7	-0.4%		
	CDWR - Non Bay Area	55	55	57	57	57	57	56	56	56	56	56	56	0.0%		
	WAPA - Non Bay Area	185	185	185	185	185	185	185	185	185	185	185	185	0.0%		
Total North of Path 15		10,602	10,544	10,207	10,186	10,182	10,182	10,182	10,182	10,202	10,202	10,202	-0.17%			
Total Zone Path 26	CDWR - ZP26	115	115	120	120	120	120	118	118	118	118	118	117	0.9%		
	WAPA - ZP26	35	35	35	35	35	35	35	35	35	35	35	35	0.0%		
Total Zone Path 26		150	150	155	155	155	155	153	153	153	153	153	0.9%			
Total Valley		12,991	12,409	12,167	12,091	12,093	12,043	12,061	12,130	12,173	12,265	12,253	12,330	-0.19%		
Total North of Path 26 (Total PG&E TAC Area)		20,779	20,486	20,100	19,983	19,923	19,919	19,988	20,067	20,137	20,287	20,266	20,391	-0.17%		
Total Turlock Irrigation District Control Area	Turlock Irrigation District	543	555	551	550	528	527	526	524	524	524	524	525	0.7%		
	Mendoc	109	107	107	106	106	106	106	106	106	106	106	106	-0.7%		
	SMUD	652	638	638	637	2,890	2,881	2,870	2,861	2,861	2,869	2,882	2,895	-0.20%		
	Modesto Irrigation District	674	664	669	668	668	664	664	661	661	660	661	661	-0.37%		
	Roseville	325	311	318	318	316	316	315	314	314	314	314	315	-0.27%		
	Reeding	721	716	715	715	715	714	713	713	713	713	713	714	-0.27%		
	City of Shasta Lake	35	34	34	34	34	34	33	33	33	33	33	34	-0.27%		
	WAPA (BANC)	90	90	90	90	90	90	90	90	90	90	90	90	0.0%		
	Total Balancing Authority of Northern California Control Area		4,304	4,242	4,215	4,211	4,200	4,188	4,174	4,163	4,161	4,171	4,186	4,202	-0.22%	
	LA Basin Subtotal	SCS Service Area - LA Basin	16,297	16,109	15,975	15,861	15,800	15,796	15,793	15,749	15,769	15,789	15,883	16,027	-0.15%	
Arden		526	520	515	512	511	509	508	508	509	509	509	511	-0.15%		
Piedra Water and Power		273	270	267	265	265	264	264	264	264	264	264	264	-0.15%		
Bakerside		594	587	582	578	577	575	574	574	574	575	576	584	-0.15%		
Wentworth		148	147	143	143	143	143	143	143	143	143	143	143	0.0%		
Other SPES LSE - LA Basin		248	243	241	240	239	239	238	238	238	238	238	242	-0.15%		
MWD - LA Basin		30	30	30	30	30	30	30	30	30	30	30	30	0.0%		
LA Basin Subtotal		18,104	17,895	17,771	17,645	17,633	17,572	17,519	17,511	17,542	17,568	17,669	-0.14%			
Big Creek/Ventura Subtotal	SCS Service Area - Big Creek/Ventura	3,996	3,950	3,917	3,899	3,886	3,873	3,862	3,861	3,866	3,871	3,894	3,929	-0.15%		
	CDWR - Big Creek/Ventura	290	275	275	275	275	275	275	276	276	280	303	303	0.4%		
	Other SPES LSE - Other	1,000	999	995	993	993	971	971	976	977	978	986	991	-0.15%		
	CDWR - Other	26	26	25	25	25	25	25	25	25	25	25	25	-0.15%		
Total SCE TAC Area		23,637	23,343	23,177	23,015	23,000	22,923	22,862	22,859	22,886	22,964	23,097	-0.13%			
SOG&E TAC Area		4,134	4,158	4,154	4,154	4,224	4,250	4,273	4,292	4,313	4,334	4,354	4,373	0.38%		
Valley Electric Association (LA + NV Territory)		153	145	153	155	159	161	164	166	169	174	176	2.53%			
Total South of Path 26		27,964	27,632	27,488	27,365	27,383	27,334	27,299	27,317	27,368	27,469	27,526	27,650	-0.04%		
Total LADWP Control Area	LADWP	5,787	5,696	5,608	5,555	5,499	5,368	5,246	5,160	5,059	4,982	4,840	4,672	-1.55%		
	Burbank	285	284	284	285	283	282	281	279	279	279	281	283	-0.11%		
	Glendale	397	395	394	395	394	392	391	390	389	389	391	391	-0.11%		
Total LADWP Control Area		6,370	6,275	6,186	6,135	6,028	5,942	5,818	5,729	5,627	5,561	5,512	5,448	-1.41%		
Imperial Irrigation District Control Area		1,971	1,956	1,945	1,937	1,930	1,924	1,919	1,917	1,917	1,920	1,926	1,933	-0.33%		
Total California SO Non-coincident Peak		48,743	48,112	47,589	47,369	47,265	47,253	47,287	47,384	47,509	47,597	47,691	48,241	-0.09%		
Total California SO Coincident Peak		46,117	45,647	45,181	45,280	45,447	45,610	45,827	46,011	46,227	46,493	46,792	47,616	0.18%		
Total California SO Coincident Adjustment		266	256	260	0.0%											
Total STATEWIDE Non-coincident Peak		61,141	60,327	59,673	59,369	59,158	59,040	58,929	58,923	58,940	59,138	59,246	59,558	-0.24%		
Total STATEWIDE Coincident Peak		57,848	57,236	56,628	56,775	56,872	56,987	57,109	57,216	57,334	57,572	57,776	58,045	0.03%		

Table developed using weather normalized 2019 net peak demand values for each BA area. Includes the impact of IOU load-modifying demand response programs. Agency peak demand within a BA area is adjusted to be coincident with the respective BA area net peak demand total.

Please input your LSE's 2021 System RA allocation, NQC MW here. This will be kept confidential.														
CAISO area Non-IOLUCCA,ESP non-coincident demand	2,030	2,011	2,021	2,023	2,024	2,025	2,026	2,027	2,028	2,029	2,030			
CAISO area IOLUCCA,ESP non-coincident demand	3,985	3,997	3,988	3,992	3,993	3,993	3,993	3,993	3,993	3,993	3,993	4,008	4,077	4,120
CAISO area IOLUCCA,ESP coincident demand	44,127	43,592	43,361	43,314	43,259	43,288	43,288	43,288	43,288	43,288	43,288	43,288	43,288	44,121
coincident adjustment	266	256	260	260	260	260	260	260	260	260	260	260	260	260
CAISO area IOLUCCA,ESP coincident demand	41,866	41,389	41,466	41,612	41,754	41,951	42,123	42,326	42,533	42,736	42,939	43,142	43,345	43,548
Your LSE's estimated percent of CAISO area IOLUCCA,ESP coincident demand	1.64%													
Your LSE's estimated system RA requirement, NQC MW	685	677	678	681	683	686	689	692	696	699	703			

Adjusted share for RSP comparisons

3.75%

Test TRUE

resource_num	resource	note	resource_contract_note	online	online_date_for_new_resources
1				1	ok
2				1	ok
3				0	1/1/2022
4				0	1/1/2023
5				0	1/1/2025
6				0	1/1/2022
7				0	1/1/2023
8				0	1/1/2026
9				0	1/1/2023
10				0	1/1/2023
11				0	1/1/2024
12				0	1/1/2026
13				1	ok
14				1	ok
15				1	ok
16				1	ok
17				0	8/1/2022
18				0	8/1/2023
19				0	8/1/2022
20				0	8/1/2021
21				0	8/1/2021
22				0	8/1/2021
23				1	ok
24				1	ok
25				0	8/1/2023

contract_execution_date	contract_start	contract_end	interconnection_queue_position	lse_owned	cam	is_incremental	incremental_explanation	viability_cod_reasonableness	viability_technical_feasibility
11/1/2020	3/1/2021	12/31/2030	N/A			0		ok	ok
11/1/2020	3/1/2021	12/31/2030	N/A			0		ok	ok
11/1/2020	1/1/2022	12/31/2030	TBD			1		3	1
1/1/2021	1/1/2023	12/31/2030	TBD			1		3	1
1/1/2023	1/1/2025	12/31/2030	TBD			1		3	1
1/1/2021	1/1/2022	12/31/2030	TBD			1		3	1
1/1/2021	1/1/2023	12/31/2030	TBD			1		3	1
1/1/2024	1/1/2026	12/31/2030	TBD			1		3	1
1/1/2021	1/1/2023	12/31/2030	TBD			1		3	1
1/1/2021	1/1/2023	12/31/2030	TBD			1		3	1
1/1/2022	1/1/2024	12/31/2030	TBD			1		3	1
1/1/2024	1/1/2026	12/31/2030	TBD			1		3	1
10/1/2020	1/1/2024	12/31/2030	N/A			0		3	1
10/1/2020	1/1/2026	12/31/2030	N/A		1	0		3	1
1/1/2021	3/1/2021	12/31/2030	N/A			0		ok	ok
1/1/2021	3/1/2021	12/31/2030	N/A			0		ok	ok
9/1/2020	8/1/2022	8/1/2037	N/A	0	0	1		2	1
9/1/2020	8/1/2023	8/1/2038	N/A	0	0	1		2	1
9/1/2020	8/1/2022	8/1/2032	N/A	0	0	1		1	1
9/1/2020	8/1/2021	8/1/2041	N/A	0	0	1		1	1
9/1/2020	8/1/2021	8/1/2041	N/A	0	0	1		1	1
9/1/2020	8/1/2021	8/1/2036	N/A	0	0	1		1	1
9/1/2020	8/1/2021	7/31/2022	N/A	0	0	1	resource con	1	1
9/1/2020	8/1/2022	8/1/2033	N/A	0	0	1	ed to VSTAE	1	1
9/1/2020	8/1/2023	8/1/2033	N/A	0	0	1		3	1

viability_resource_sufficiency	viability_financing	storage_max_disc_harge_mw	storage_depth_mwh	is_hybrid	hybrid_generator_mw	hybrid_combined_max_mw	hybrid_can_charge_from_grid	execution_year
ok	ok							2020
ok	ok							2020
2	4	50	200	1	100	150	0	2020
2	4	200	800	1	400	600	0	2021
2	4	50	200	1	100	150	0	2023
2	4							2021
2	4							2021
2	4							2024
2	4							2021
2	4							2021
2	4							2022
2	4	65	520	0	N/A	N/A	N/A	2024
2	4							2020
2	4							2020
ok	ok							2021
ok	ok							2021
2	3	50	100	0	N/A	N/A	N/A	2020
2	3	75	300	0	N/A	N/A	N/A	2020
2	3	20	80	0	N/A	N/A	N/A	2020
2	3	20	80	0	N/A	N/A	N/A	2020
2	3	20	80	0	N/A	N/A	N/A	2020
2	3	104	416	0	N/A	N/A	N/A	2020
2	2	10	40	0	N/A	N/A	N/A	2020
2	2	20	80	0	N/A	N/A	N/A	2020
2	4	17	69	0	N/A	N/A	N/A	2020

execution_month	start_year	start_month	end_year	end_month	Test: Correct data type for lse_owned	Test: Correct data type for cam	Test:All data provided for hybrid	TEST: All data provided for contract	TEST: No fillmes	Max MW in September 2021	NQC MW in September 2021
11	2021	3	2030	12	1	1	1	1			
11	2021	3	2030	12	1	1	1	1			
11	2022	1	2030	12	1	1	1	1			
1	2023	1	2030	12	1	1	1	1			
1	2025	1	2030	12	1	1	1	1			
1	2022	1	2030	12	1	1	1	1			
1	2023	1	2030	12	1	1	1	1			
1	2026	1	2030	12	1	1	1	1			
1	2023	1	2030	12	1	1	1	1			
1	2023	1	2030	12	1	1	1	1			
1	2024	1	2030	12	1	1	1	1			
1	2026	1	2030	12	1	1	1	1			
10	2024	1	2030	12	1	1	1	1			
10	2026	1	2030	12	1	1	1	1			
1	2021	3	2030	12	1	1	1	1			
1	2021	3	2030	12	1	1	1	1			
9	2022	8	2037	8	1	1	1	1			
9	2023	8	2038	8	1	1	1	1			
9	2022	8	2032	8	1	1	1	1			
9	2021	8	2041	8	1	1	1	1			
9	2021	8	2041	8	1	1	1	1			
9	2021	8	2036	8	1	1	1	1			
9	2021	8	2022	7	1	1	1	1			
9	2022	8	2033	8	1	1	1	1			
9	2023	8	2033	8	1	1	1	1			

Supply Side incremental NQC MW in September 2021	Incremental energy-only NQC MW in September 2021	Incremental demand-side resource not in IEPR demand forecast in September 2021	find_position_of_adding	find_position_of_mw
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	#VALUE!
		0	#VALUE!	3
		0	#VALUE!	#VALUE!

