Form 1.5b - STATEWIDE

California Energy Demand 2019-2030 Managed Forecast - Mid Demand / Mid AAEE Case

1-in-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-IOU,CCA,ESP demand flag
	PG&E Service Area - Greater Bay Area	7,223	7,113	6,970	6,926	6,902	6,898	6,922	6,951	6,977	7,032	7,025	7,062	-0.20%	
	NCPA - Greater Bay Area	198	194	190	188	186	185	186	186	186	187	186	188	-0.49%	1
	Power Enterprise of the San Francisco PUC	125	123	120	118	117	117	117	117	117	118	118	118	-0.49%	1
	Silicon Valley Power	530	542	540	546	553	562	569	570	570	573	571	575	0.75%	1
	Other NP15 LSEs - Bay Area	5	5	5	5	5	5	5	5	5	5	5	5	-0.69%	1
	CDWR - Greater Bay Area	55	55	57	57	57	57	56	56	56	56	56	60	0.92%	1
	WAPA - Greater Bay Area	52	52	52	52	52	52	52	52	52	52	52	52	0.00%	1
Greater Bay Area Subtotal		**8,188**	**8,083**	**7,933**	**7,892**	**7,873**	**7,876**	**7,907**	**7,937**	**7,964**	**8,023**	**8,013**	**8,061**	**-0.14%**	
	PG&E Service Area - Non Bay Area	9,955	9,803	9,606	9,545	9,513	9,507	9,540	9,580	9,616	9,691	9,682	9,734	-0.20%	
	NCPA - Non Bay Area	211	207	202	200	199	198	198	198	199	200	199	200	-0.49%	1
	Other NP15 LSEs - Non Bay Area	7	7	7	7	7	7	7	7	7	7	7	7	-0.49%	1
	CDWR - Non Bay Area	55	55	57	57	57	57	56	56	56	56	56	60	0.92%	1
	WAPA - Non Bay Area	185	185	185	185	185	185	185	185	185	185	185	185	0.00%	1
Total North of Path 15		**18,602**	**18,341**	**17,991**	**17,886**	**17,832**	**17,829**	**17,893**	**17,964**	**18,026**	**18,161**	**18,142**	**18,247**	**-0.17%**	
	PG&E Service Area - ZP26	2,047	2,016	1,975	1,963	1,956	1,955	1,962	1,970	1,977	1,993	1,991	2,002	-0.20%	
	CDWR - ZP26	115	115	120	120	120	120	119	118	118	118	118	127	0.92%	1
	WAPA - ZP26	15	15	15	15	15	15	15	15	15	15	15	15	0.00%	1
Total Zone Path 26		**2,177**	**2,146**	**2,110**	**2,097**	**2,091**	**2,090**	**2,095**	**2,103**	**2,111**	**2,126**	**2,124**	**2,144**	**-0.14%**	
Total Valley		**12,591**	**12,403**	**12,167**	**12,091**	**12,050**	**12,043**	**12,081**	**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%**	
	Turlock Irrigation District	543	535	531	530	528	527	525	524	524	524	525	527	-0.27%	
	Merced	109	108	107	107	106	106	106	106	106	106	106	106	-0.27%	
Total Turlock Irrigation District Control Area		**652**	**643**	**638**	**637**	**634**	**633**	**631**	**630**	**629**	**630**	**631**	**633**	**-0.27%**	
	SMUD	2,959	2,916	2,899	2,897	2,890	2,881	2,870	2,861	2,861	2,869	2,882	2,895	-0.20%	
	Modesto Irrigation District	674	664	659	658	656	654	652	651	650	651	652	654	-0.27%	
	Roseville	325	321	318	318	316	316	315	314	314	314	315	316	-0.27%	
	Redding	221	217	216	215	215	214	213	213	213	213	213	214	-0.27%	
	City of Shasta Lake	35	34	34	34	34	34	33	33	33	33	34	34	-0.27%	
	WAPA (BANC)	90	90	90	90	90	90	90	90	90	90	90	90	0.00%	
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%**	
	SCE Service Area - LA Basin	16,297	16,109	15,975	15,861	15,850	15,796	15,753	15,749	15,769	15,789	15,883	16,027	-0.15%	
	Anaheim	526	520	515	512	511	509	508	508	509	509	512	517	-0.15%	1
	Pasadena Water and Power	273	270	267	265	265	264	264	264	264	264	266	268	-0.15%	1
	Riverside	594	587	582	578	577	575	574	574	574	575	579	584	-0.15%	1
	Vernon	149	147	171	170	169	169	169	169	169	169	170	171	1.26%	1
	Other SP15 LSEs - LA Basin	246	243	241	240	239	239	238	238	238	239	240	242	-0.15%	1
	MWD - LA Basin	20	20	20	20	20	20	20	20	20	20	20	20	0.00%	1
LA Basin Subtotal		**18,104**	**17,895**	**17,771**	**17,645**	**17,633**	**17,572**	**17,525**	**17,521**	**17,542**	**17,565**	**17,669**	**17,829**	**-0.14%**	
	SCE Service Area - Big Creek/Ventura	3,996	3,950	3,917	3,889	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	303	303	303	0.40%	1
Big Creek/Ventura Subtotal		**4,286**	**4,224**	**4,192**	**4,164**	**4,161**	**4,148**	**4,137**	**4,137**	**4,142**	**4,174**	**4,197**	**4,233**	**-0.11%**	
	SCE Service Area - Other	1,010	999	990	983	983	979	977	976	977	979	985	993	-0.15%	
	Other SP15 LSEs - Other	26	26	25	25	25	25	25	25	25	25	25	25	-0.15%	1
	CDWR - Other	47	45	45	45	45	45	45	45	45	50	50	50	0.40%	1
	MWD - Other	163	154	154	154	154	154	154	154	154	171	172	172	0.45%	1
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**	**23,301**	**-0.13%**	
SDG&E TAC Area		**4,194**	**4,138**	**4,158**	**4,194**	**4,224**	**4,250**	**4,273**	**4,292**	**4,313**	**4,334**	**4,354**	**4,373**	**0.38%**	
Valley Electric Association (CA + NV Territory)		**133**	**145**	**153**	**156**	**159**	**161**	**164**	**166**	**169**	**171**	**173**	**176**	**2.53%**	1
Total South of Path 26		**27,964**	**27,625**	**27,488**	**27,366**	**27,383**	**27,334**	**27,299**	**27,317**	**27,368**	**27,469**	**27,625**	**27,850**	**-0.04%**	
	LADWP	5,787	5,696	5,608	5,555	5,450	5,368	5,246	5,160	5,059	4,992	4,940	4,872	-1.55%	
	Burbank	286	284	284	285	283	282	281	279	279	279	281	283	-0.11%	
	Glendale	297	295	294	295	294	292	291	290	289	290	291	293	-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		**1,071**	**1,056**	**1,045**	**1,037**	**1,030**	**1,024**	**1,019**	**1,017**	**1,017**	**1,020**	**1,026**	**1,033**	**-0.33%**	
Total California ISO Noncoincident Peak		**48,743**	**48,112**	**47,589**	**47,349**	**47,306**	**47,253**	**47,287**	**47,384**	**47,505**	**47,757**	**47,891**	**48,241**	**-0.09%**	
Total California ISO Coincident Peak		**46,117**	**45,647**	**45,184**	**45,280**	**45,447**	**45,610**	**45,827**	**46,011**	**46,227**	**46,493**	**46,702**	**47,016**	**0.18%**	
Total STATEWIDE Noncoincident Peak		**61,141**	**60,327**	**59,673**	**59,369**	**59,198**	**59,040**	**58,929**	**58,923**	**58,940**	**59,138**	**59,246**	**59,558**	**-0.24%**	
Total STATEWIDE Coincident Peak		**57,848**	**57,236**	**56,658**	**56,775**	**56,872**	**56,987**	**57,109**	**57,216**	**57,354**	**57,572**	**57,776**	**58,045**	**0.03%**	

emand values for each BA area. Inlcudes the impact of IOU load-modifying demand response programs.

s is adjusted to be coincident with the respective BA area net peak demand total.

System RA allocation, NQC MW here. [redacted]

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
CAISO area Non-IOU,CCA,ESP non-coincident demand	3,985	3,997	3,988	3,992	3,995	3,999	4,004	4,009	4,068	4,077	4,120
CAISO area IOU,CCA,ESP non-coincident demand	44,127	43,592	43,361	43,314	43,259	43,288	43,380	43,496	43,689	43,813	44,121
coincident adjustment	95%	95%	96%	96%	97%	97%	97%	97%	97%	98%	97%
CAISO area IOU,CCA,ESP coincident demand	41,866	41,389	41,466	41,612	41,754	41,951	42,123	42,326	42,533	42,726	43,000

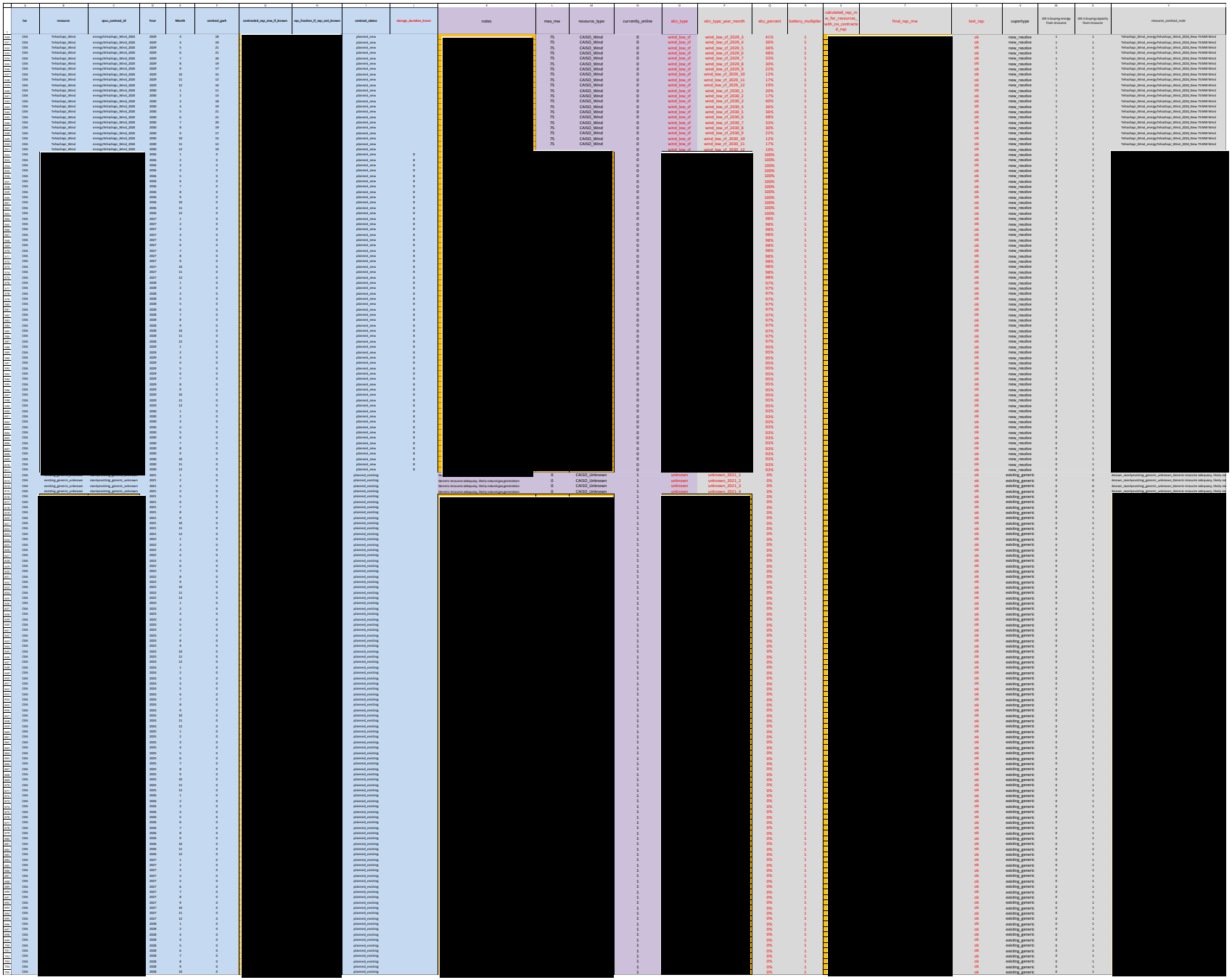
Your LSE'S estimated percent of CAISO area IOU,CCA,ESP coincident demand	0.42%

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Your LSE's estimated system RA requirement, NQC MW	177	175	175	176	177	177	178	179	180	181	182

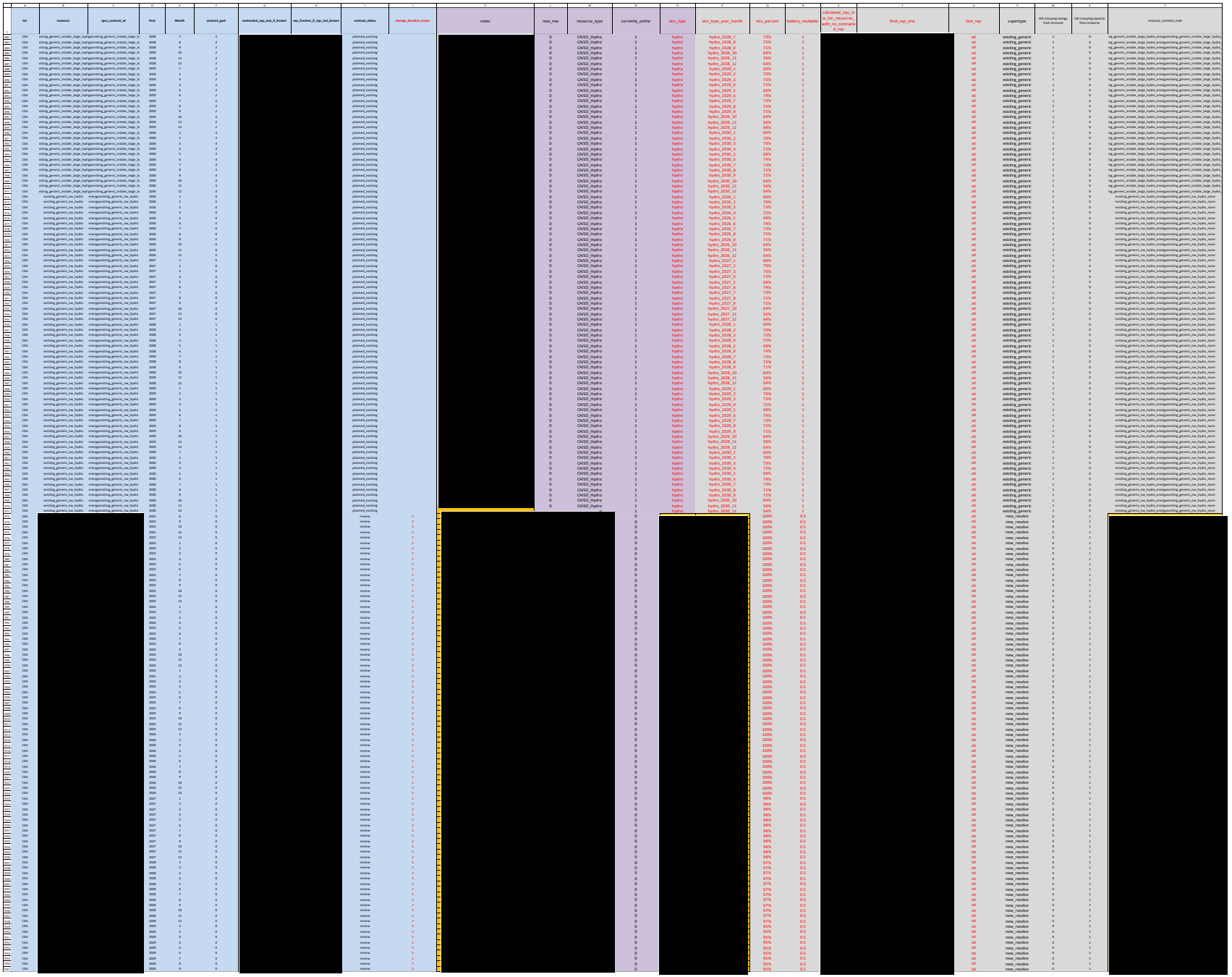
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	ba	resource	cpuc_contract_id	Year	Month	contract_gwh	contracted_mpc_mw_if_known	mpc_fraction_if_mpc_not_known	contract_status	storage_duration_hours	notes	max_mw	resource_type	currently_online	elcc_type	elcc_type_year_month	elcc_percent	battery_multiplier	calculated_mpc_mw_for_resource_with_no_contracted_mpc	final_mpc_mw	test_mpc	supertype	100 is buying energy from resource	100 is buying capacity from resource	resource_contract_note
2	CSA			2020	1	0			online			0	blended	1	unknown	unknown_2020_1	0%	1			ok	special	1	0	
3	CSA			2020	2	0			online			0	blended	1	unknown	unknown_2020_2	0%	1			ok	special	1	0	
4	CSA			2020	3	0			online			0	blended	1	unknown	unknown_2020_3	0%	1			ok	special	1	0	
5	CSA			2020	4	0			online			0	blended	1	unknown	unknown_2020_4	0%	1			ok	special	1	0	
6	CSA			2020	5	0			online			0	transfer_purchase	1	unknown	unknown_2020_5	0%	1			ok	special	1	0	
7	CSA			2020	6	0			online			0	transfer_sale	1	unknown	unknown_2020_6	0%	1			ok	special	1	0	
8	CSA			2020	7	0			online			0	CAISO_Hydro	1	hydro	hydro_2020_7	64%	1			ok	existing_generic	1	0	
9	CSA			2020	8	0			online			0	blended	1	unknown	unknown_2020_8	0%	1			ok	special	1	0	
10	CSA			2020	9	0			online			0	CAISO_Solar	1	solar	solar_2020_9	0%	1			ok	existing_generic	1	0	
11	CSA			2020	10	0			online			0	CAISO_Solar	1	solar	solar_2020_10	0%	1			ok	existing_generic	1	0	
12	CSA			2020	11	0			online			0	CAISO_Solar	1	solar	solar_2020_11	0%	1			ok	existing_generic	1	0	
13	CSA			2020	12	0			online			0	CAISO_Solar	1	solar	solar_2020_12	0%	1			ok	existing_generic	1	0	
14	CSA			2021	1	0			online			0	CAISO_Solar	1	solar	solar_2021_1	4%	1			ok	existing_generic	1	0	
15	CSA			2021	2	0			online			0	CAISO_Solar	1	solar	solar_2021_2	3%	1			ok	existing_generic	1	0	
16	CSA			2021	3	0			online			0	CAISO_Solar	1	solar	solar_2021_3	18%	1			ok	existing_generic	1	0	
17	CSA			2021	4	0			online			0	CAISO_Solar	1	solar	solar_2021_4	15%	1			ok	existing_generic	1	0	
18	CSA			2021	5	0			online			0	CAISO_Solar	1	solar	solar_2021_5	16%	1			ok	existing_generic	1	0	
19	CSA			2021	6	0			online			0	CAISO_Solar	1	solar	solar_2021_6	31%	1			ok	existing_generic	1	0	
20	CSA			2021	7	0			online			0	CAISO_Solar	1	solar	solar_2021_7	39%	1			ok	existing_generic	1	0	
21	CSA			2021	8	0			online			0	CAISO_Solar	1	solar	solar_2021_8	27%	1			ok	existing_generic	1	0	
22	CSA			2021	9	0			online			0	CAISO_Solar	1	solar	solar_2021_9	14%	1			ok	existing_generic	1	0	
23	CSA			2021	10	0			online			0	CAISO_Solar	1	solar	solar_2021_10	2%	1			ok	existing_generic	1	0	
24	CSA			2021	11	0			online			0	CAISO_Solar	1	solar	solar_2021_11	2%	1			ok	existing_generic	1	0	
25	CSA			2021	12	0			online			0	CAISO_Solar	1	solar	solar_2021_12	0%	1			ok	existing_generic	1	0	
26	CSA			2022	1	25			planned_existing			0	CAISO_Solar	1	solar	solar_2022_1	4%	1			ok	existing_generic	1	0	
27	CSA			2022	2	25			planned_existing			0	CAISO_Solar	1	solar	solar_2022_2	3%	1			ok	existing_generic	1	0	
28	CSA			2022	3	25			planned_existing			0	CAISO_Solar	1	solar	solar_2022_3	18%	1			ok	existing_generic	1	0	
29	CSA			2022	4	25			planned_existing			0	CAISO_Solar	1	solar	solar_2022_4	15%	1			ok	existing_generic	1	0	
30	CSA			2022	5	25			planned_existing			0	CAISO_Solar	1	solar	solar_2022_5	16%	1			ok	existing_generic	1	0	
31	CSA			2022	6	25			planned_existing			0	CAISO_Solar	1	solar	solar_2022_6	31%	1			ok	existing_generic	1	0	
32	CSA			2022	7	25			planned_existing			0	CAISO_Solar	1	solar	solar_2022_7	39%	1			ok	existing_generic	1	0	
33	CSA			2022	8	25			planned_existing			0	CAISO_Solar	1	solar	solar_2022_8	27%	1			ok	existing_generic	1	0	
34	CSA			2022	9	25			planned_existing			0	CAISO_Solar	1	solar	solar_2022_9	14%	1			ok	existing_generic	1	0	
35	CSA			2022	10	25			planned_existing			0	CAISO_Solar	1	solar	solar_2022_10	2%	1			ok	existing_generic	1	0	
36	CSA			2022	11	25			planned_existing			0	CAISO_Solar	1	solar	solar_2022_11	2%	1			ok	existing_generic	1	0	
37	CSA			2022	12	25			planned_existing			0	CAISO_Solar	1	solar	solar_2022_12	0%	1			ok	existing_generic	1	0	
38	CSA			2023	1	13			planned_existing			0	CAISO_Solar	1	solar	solar_2023_1	4%	1			ok	existing_generic	1	0	
39	CSA			2023	2	13			planned_existing			0	CAISO_Solar	1	solar	solar_2023_2	3%	1			ok	existing_generic	1	0	
40	CSA			2023	3	13			planned_existing			0	CAISO_Solar	1	solar	solar_2023_3	18%	1			ok	existing_generic	1	0	
41	CSA			2023	4	13			planned_existing			0	CAISO_Solar	1	solar	solar_2023_4	15%	1			ok	existing_generic	1	0	
42	CSA			2023	5	13			planned_existing			0	CAISO_Solar	1	solar	solar_2023_5	16%	1			ok	existing_generic	1	0	
43	CSA			2023	6	13			planned_existing			0	CAISO_Solar	1	solar	solar_2023_6	31%	1			ok	existing_generic	1	0	
44	CSA			2023	7	13			planned_existing			0	CAISO_Solar	1	solar	solar_2023_7	39%	1			ok	existing_generic	1	0	
45	CSA			2023	8	13			planned_existing			0	CAISO_Solar	1	solar	solar_2023_8	27%	1			ok	existing_generic	1	0	
46	CSA			2023	9	13			planned_existing			0	CAISO_Solar	1	solar	solar_2023_9	14%	1			ok	existing_generic	1	0	
47	CSA			2023	10	13			planned_existing			0	CAISO_Solar	1	solar	solar_2023_10	2%	1			ok	existing_generic	1	0	
48	CSA			2023	11	13			planned_existing			0	CAISO_Solar	1	solar	solar_2023_11	2%	1			ok	existing_generic	1	0	
49	CSA			2023	12	13			planned_existing			0	CAISO_Solar	1	solar	solar_2023_12	0%	1			ok	existing_generic	1	0	
50	CSA			2024	1	5			planned_existing			0	CAISO_Solar	1	solar	solar_2024_1	3%	1			ok	existing_generic	1	0	
51	CSA			2024	2	5			planned_existing			0	CAISO_Solar	1	solar	solar_2024_2	3%	1			ok	existing_generic	1	0	
52	CSA			2024	3	5			planned_existing			0	CAISO_Solar	1	solar	solar_2024_3	16%	1			ok	existing_generic	1	0	
53	CSA			2024	4	5			planned_existing			0	CAISO_Solar	1	solar	solar_2024_4	13%	1			ok	existing_generic	1	0	
54	CSA			2024	5	5			planned_existing			0	CAISO_Solar	1	solar	solar_2024_5	14%	1			ok	existing_generic	1	0	
55	CSA			2024	6	5			planned_existing			0	CAISO_Solar	1	solar	solar_2024_6	27%	1			ok	existing_generic	1	0	
56	CSA			2024	7	5			planned_existing			0	CAISO_Solar	1	solar	solar_2024_7	34%	1			ok	existing_generic	1	0	
57	CSA			2024	8	5			planned_existing			0	CAISO_Solar	1	solar	solar_2024_8	23%	1			ok	existing_generic	1	0	
58	CSA			2024	9	5			planned_existing			0	CAISO_Solar	1	solar	solar_2024_9	12%	1			ok	existing_generic	1	0	
59	CSA			2024	10	5			planned_existing			0	CAISO_Solar	1	solar	solar_2024_10	2%	1			ok	existing_generic	1	0	
60	CSA			2024	11	5			planned_existing			0	CAISO_Solar	1	solar	solar_2024_11	2%	1			ok	existing_generic	1	0	
61	CSA			2024	12	5			planned_existing			0	CAISO_Solar	1	solar	solar_2024_12	0%	1			ok	existing_generic	1	0	
62	CSA			2025	1	7			planned_existing			0	CAISO_Solar	1	solar	solar_2025_1	3%	1			ok	existing_generic	1	0	
63	CSA			2025	2	7			planned_existing			0	CAISO_Solar	1	solar	solar_2025_2	2%	1			ok	existing_generic	1	0	
64	CSA			2025	3	7			planned_existing			0	CAISO_Solar	1	solar	solar_2025_3	13%	1			ok	existing_generic	1	0	
65	CSA			2025	4	7			planned_existing			0	CAISO_Solar	1	solar	solar_2025_4	11%	1			ok	existing_generic	1	0	
66	CSA			2025	5	7			planned_existing			0	CAISO_Solar	1	solar	solar_2025_5	12%	1			ok	existing_generic	1	0	
67	CSA			2025	6	7			planned_existing			0	CAISO_Solar	1	solar	solar_2025_6	23%	1			ok	existing_generic	1	0	
68	CSA			2025	7	7			planned_existing			0	CAISO_Solar	1	solar	solar_2025_7	29%	1			ok	existing_generic	1	0	
69	CSA			2025	8	7			planned_existing			0	CAISO_Solar	1	solar	solar_2025_8	20%	1			ok	existing_generic	1	0	
70	CSA			2025	9	7			planned_existing			0	CAISO_Solar	1	solar	solar_2025_9	10%	1			ok	existing_generic	1	0	
71	CSA			2025	10	7			planned_existing			0	CAISO_Solar	1	solar	solar_2025_10	1%	1			ok	existing_generic	1	0	
72	CSA			2025	11	7			planned_existing			0	CAISO_Solar	1	solar	solar_2025_11	1%	1			ok	existing_generic	1	0	
73	CSA			2025	12	7			planned_existing			0	CAISO_Solar	1	solar	solar_2025_12	0%	1			ok	existing_generic	1	0	
74	CSA			2026	1	2			planned_existing			0	CAISO_Solar	1	solar	solar_2026_1	2%	1			ok	existing_generic	1	0	
75	CSA			2026	2	2			planned_existing			0	CAISO_Solar	1	solar	solar_2026_2	2%	1			ok	existing_generic	1	0	
76	CSA			2026	3	2			planned_existing			0	CAISO_Solar	1	solar	solar_2026_3	11%	1			ok	existing_generic	1	0	
77	CSA			2026	4	2			planned_existing			0	CAISO_Solar	1	solar	solar_2026_4	9%	1			ok	existing_generic	1	0	
78	CSA			2026	5	2			planned_existing			0	CAISO_Solar	1	solar	solar_2026_5	10%	1			ok	existing_generic	1	0	
79	CSA			2026	6	2			planned_existing			0	CAISO_Solar	1	solar	solar_2026_6	19%	1			ok	existing_generic	1	0	
80	CSA			2026	7	2			planned_existing			0	CAISO_Solar	1	solar	solar_2026_7	24%	1			ok	existing_generic	1	0	
81	CSA			2026	8	2			planned_existing			0	CAISO_Solar	1	solar	solar_2026_8	16%	1			ok	existing_generic	1	0	
82	CSA			2026	9	2			planned_existing			0	CAISO_Solar	1	solar	solar_2026_9	8%	1			ok	existing_generic	1	0	
83	CSA			2026	10	2			planned_existing			0	CAISO_Solar	1	solar	solar_2026_10	1%	1			ok	existing_generic	1	0	
84	CSA			2026	11	2			planned_existing			0	CAISO_Solar	1	solar	solar_2026_11	1%	1			ok	existing_generic	1	0	
85	CSA			2026	12	2			planned_existing			0	CAISO_Solar	1	solar	solar_2026_12	0%	1			ok	existing_generic	1	0	
86	CSA			2027	1	4			planned_existing			0	CAISO_Solar	1	solar	solar_2027_1	2%	1			ok	existing_generic	1	0	
87	CSA			2027	2	4			planned_existing			0	CAISO_Solar	1	solar	solar_2027_2	2%	1			ok	existing_generic	1	0	
88	CSA			2027	3	4			planned_existing			0	CAISO_Solar	1	solar	solar_2027_3	10%	1			ok	existing_generic	1	0	
89	CSA			2027	4	4			planned_existing			0	CAISO_Solar	1	solar	solar_2027_4	8%	1			ok	existing_generic	1	0	
90	CSA			2027	5	4			planned_existing			0	CAISO_Solar	1	solar	solar_2027_5	9%	1			ok	existing_generic	1	0	
91	CSA			2027	6	4			planned_existing			0	CAISO_Solar	1	solar	solar_2027_6	17%	1			ok	existing_generic	1	0	
92	CSA			2027	7	4			planned_existing			0	CAISO_Solar	1	solar	solar_2027_7	21%	1			ok	existing_generic	1	0	
93	CSA			2027	8	4			planned_existing			0	CAISO_Solar	1	solar	solar_2027_8	15%	1			ok	existing_generic	1	0	
94	CSA			2027	9	4			planned_existing			0	CAISO_Solar	1	solar	solar_2027_9	8%	1			ok	existing_generic	1	0	
95	CSA			2027	10	4			planned_existing			0	CAISO_Solar	1	solar	solar_2027_10	1%	1			ok	existing_generic	1	0	
96	CSA			2027	11	4			planned_existing			0	CAISO_Solar	1	solar	solar_2027_11	1%	1			ok	existing_generic	1	0	
97	CSA			2027	12	4			planned_existing			0	CAISO_Solar	1	solar	solar_2027_12	0%	1			ok	existing_generic	1	0	
98	CSA			2028	1	6			planned_existing			0	CAISO_Solar	1	solar	solar_2028_1	2%	1			ok	existing_generic	1	0	
99	CSA			2028	2	6			planned_existing			0	CAISO_Solar	1	solar	solar_2028_2	1%	1			ok	existing_generic	1	0	
100	CSA			2028	3	6			planned_existing			0	CAISO_Solar	1	solar	solar_2028_3	8%	1			ok	existing_generic	1	0	
101	CSA			2028	4	6			planned_existing			0	CAISO_Solar	1	solar	solar_2028_4	7%	1			ok	existing_generic	1	0	
102	CSA			2028	5	6			planned_existing			0	CAISO_Solar	1	solar	solar_2028_5	8%	1			ok	existing_generic	1	0	
103	CSA			2028	6	6			planned_existing			0	CAISO_Solar	1	solar	solar_2028_6	15%	1			ok	existing_generic	1	0	
104	CSA			2028	7	6			planned_existing			0	CAISO_Solar	1	solar	solar_2028_7	18%	1			ok	existing_generic	1	0	
105	CSA			2028	8	6			planned_existing			0	CAISO_Solar	1	solar	solar_2028_8	13%	1			ok	existing_generic	1	0	
106	CSA			2028	9	6			planned_existing			0	CAISO_Solar	1	solar	solar_2028_9	7%	1			ok	existing_generic	1	0	
107	CSA			2028	10	6			planned_existing			0	CAISO_Solar	1	solar	solar_2028_10	1%	1			ok	existing_generic	1	0	
108	CSA			2028	11	6			planned_existing			0	CAISO_Solar	1	solar	solar_2028_11	1%	1			ok	existing_generic	1	0	
109	CSA			2028	12	6			planned_existing			0	CAISO_Solar	1	solar	solar_2028_12	0%	1			ok	existing_generic	1	0	
110	CSA			2029	1	8			planned_existing			0	CAISO_Solar	1	solar	solar_2029_1	2%	1			ok	existing_generic	1	0	
111	CSA			2029	2	8			planned_existing			0	CAISO_Solar	1	solar	solar_2029_2	1%	1			ok	existing_generic	1	0	
112	CSA			2029	3	8			planned_existing			0	CAISO_Solar	1	solar	solar_2029_3	7%	1			ok	existing_generic	1	0	
113	CSA			2029	4	8			planned_existing			0	CAISO_Solar	1	solar	solar_2029_4	6%	1			ok	existing_generic	1	0	
114	CSA			2029	5	8			planned_existing			0	CAISO_Solar	1	solar	solar_2029_5	6%	1			ok	existing_generic	1	0	
115	CSA			2029	6	8			planned_existing			0	CAISO_Solar	1	solar	solar_2029_6	12%	1			ok	existing_generic	1	0	
116	CSA			2029	7	8			planned_existing			0	CAISO_Solar	1	solar	solar_2029_7	16%	1			ok	existing_generic	1	0	
117	CSA			2029	8	8			planned_existing			0	CAISO_Solar	1	solar	solar_2029_8	11%	1			ok	existing_generic	1	0	
118	CSA			2029	9	8			planned_existing			0	CAISO_Solar	1	solar	solar_2029_9	6%	1			ok	existing_generic	1	0	
119	CSA			2029	10	8			planned_existing			0	CAISO_Solar	1	solar	solar_2029_10	1%	1			ok	existing_generic	1	0	

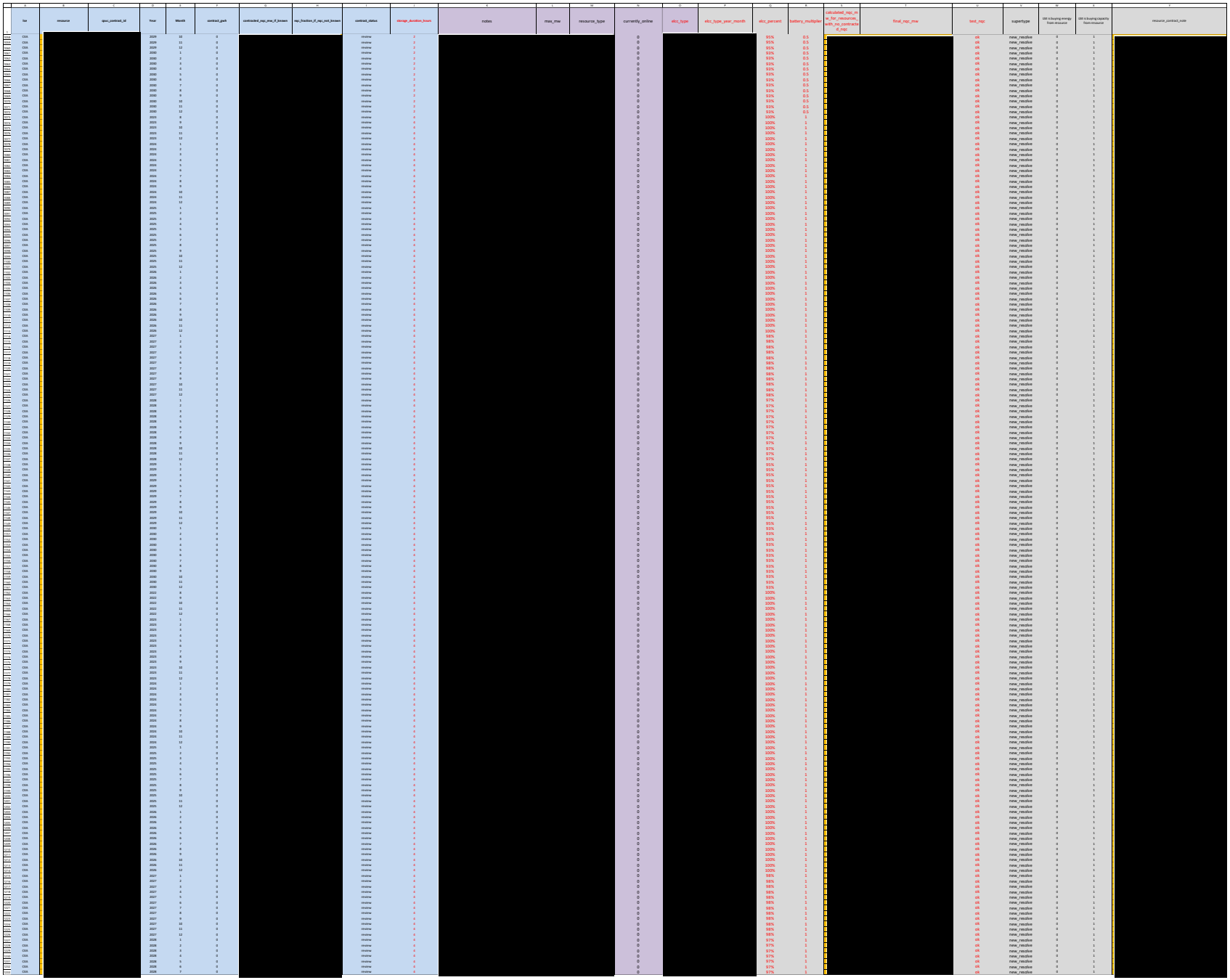
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
	tso	resource	opsc_contract_id	Year	Month	contract_gwh	contracted_mpc_mw_if_known	mpc_fraction_if_mpc_not_known	contract_status	storage_duration_hours	notes	max_mw	resource_type	currently_online	elcc_type	elcc_type_year_month	elcc_percent	battery_multiplier	calculated_mpc_mw_for_resources_with_no_contracted_mpc	final_mpc_mw	test_mpc	supertype	100 G buying energy from resource	100 G buying capacity from resource	resource_contract_note
1	CSA	existing_generic_solar_1axis	energywithmg_generic_solar_1axis	2029	11	8			planned_existing			0	CAISO_Solar	1	solar	solar_2029_11	1%	1			ok	existing_generic	1	0	existing_generic_solar_1axis_energywithmg existing_generic_solar_1axis_none
2	CSA	existing_generic_solar_1axis	energywithmg_generic_solar_1axis	2029	12	8			planned_existing			0	CAISO_Solar	1	solar	solar_2029_12	0%	1			ok	existing_generic	1	0	existing_generic_solar_1axis_energywithmg existing_generic_solar_1axis_none
3	CSA	existing_generic_solar_1axis	energywithmg_generic_solar_1axis	2030	1	10			planned_existing			0	CAISO_Solar	1	solar	solar_2030_1	1%	1			ok	existing_generic	1	0	existing_generic_solar_1axis_energywithmg existing_generic_solar_1axis_none
4	CSA	existing_generic_solar_1axis	energywithmg_generic_solar_1axis	2030	2	10			planned_existing			0	CAISO_Solar	1	solar	solar_2030_2	1%	1			ok	existing_generic	1	0	existing_generic_solar_1axis_energywithmg existing_generic_solar_1axis_none
5	CSA	existing_generic_solar_1axis	energywithmg_generic_solar_1axis	2030	3	10			planned_existing			0	CAISO_Solar	1	solar	solar_2030_3	6%	1			ok	existing_generic	1	0	existing_generic_solar_1axis_energywithmg existing_generic_solar_1axis_none
6	CSA	existing_generic_solar_1axis	energywithmg_generic_solar_1axis	2030	4	10			planned_existing			0	CAISO_Solar	1	solar	solar_2030_4	5%	1			ok	existing_generic	1	0	existing_generic_solar_1axis_energywithmg existing_generic_solar_1axis_none
7	CSA	existing_generic_solar_1axis	energywithmg_generic_solar_1axis	2030	5	10			planned_existing			0	CAISO_Solar	1	solar	solar_2030_5	5%	1			ok	existing_generic	1	0	existing_generic_solar_1axis_energywithmg existing_generic_solar_1axis_none
8	CSA	existing_generic_solar_1axis	energywithmg_generic_solar_1axis	2030	6	10			planned_existing			0	CAISO_Solar	1	solar	solar_2030_6	10%	1			ok	existing_generic	1	0	existing_generic_solar_1axis_energywithmg existing_generic_solar_1axis_none
9	CSA	existing_generic_solar_1axis	energywithmg_generic_solar_1axis	2030	7	10			planned_existing			0	CAISO_Solar	1	solar	solar_2030_7	13%	1			ok	existing_generic	1	0	existing_generic_solar_1axis_energywithmg existing_generic_solar_1axis_none
10	CSA	existing_generic_solar_1axis	energywithmg_generic_solar_1axis	2030	8	10			planned_existing			0	CAISO_Solar	1	solar	solar_2030_8	9%	1			ok	existing_generic	1	0	existing_generic_solar_1axis_energywithmg existing_generic_solar_1axis_none
11	CSA	existing_generic_solar_1axis	energywithmg_generic_solar_1axis	2030	9	10			planned_existing			0	CAISO_Solar	1	solar	solar_2030_9	5%	1			ok	existing_generic	1	0	existing_generic_solar_1axis_energywithmg existing_generic_solar_1axis_none
12	CSA	existing_generic_solar_1axis	energywithmg_generic_solar_1axis	2030	10	10			planned_existing			0	CAISO_Solar	1	solar	solar_2030_10	1%	1			ok	existing_generic	1	0	existing_generic_solar_1axis_energywithmg existing_generic_solar_1axis_none
13	CSA	existing_generic_solar_1axis	energywithmg_generic_solar_1axis	2030	11	10			planned_existing			0	CAISO_Solar	1	solar	solar_2030_11	1%	1			ok	existing_generic	1	0	existing_generic_solar_1axis_energywithmg existing_generic_solar_1axis_none
14	CSA	existing_generic_solar_1axis	energywithmg_generic_solar_1axis	2030	12	10			planned_existing			0	CAISO_Solar	1	solar	solar_2030_12	0%	1			ok	existing_generic	1	0	existing_generic_solar_1axis_energywithmg existing_generic_solar_1axis_none
15	CSA	existing_generic_wind	energywithmg_generic_wind	2021	1	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2021_1	14%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
16	CSA	existing_generic_wind	energywithmg_generic_wind	2021	2	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2021_2	12%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
17	CSA	existing_generic_wind	energywithmg_generic_wind	2021	3	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2021_3	28%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
18	CSA	existing_generic_wind	energywithmg_generic_wind	2021	4	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2021_4	25%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
19	CSA	existing_generic_wind	energywithmg_generic_wind	2021	5	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2021_5	25%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
20	CSA	existing_generic_wind	energywithmg_generic_wind	2021	6	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2021_6	33%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
21	CSA	existing_generic_wind	energywithmg_generic_wind	2021	7	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2021_7	23%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
22	CSA	existing_generic_wind	energywithmg_generic_wind	2021	8	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2021_8	21%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
23	CSA	existing_generic_wind	energywithmg_generic_wind	2021	9	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2021_9	15%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
24	CSA	existing_generic_wind	energywithmg_generic_wind	2021	10	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2021_10	8%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
25	CSA	existing_generic_wind	energywithmg_generic_wind	2021	11	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2021_11	12%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
26	CSA	existing_generic_wind	energywithmg_generic_wind	2021	12	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2021_12	13%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
27	CSA	existing_generic_wind	energywithmg_generic_wind	2022	1	17			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2022_1	14%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
28	CSA	existing_generic_wind	energywithmg_generic_wind	2022	2	17			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2022_2	12%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
29	CSA	existing_generic_wind	energywithmg_generic_wind	2022	3	17			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2022_3	28%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
30	CSA	existing_generic_wind	energywithmg_generic_wind	2022	4	17			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2022_4	25%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
31	CSA	existing_generic_wind	energywithmg_generic_wind	2022	5	17			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2022_5	25%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
32	CSA	existing_generic_wind	energywithmg_generic_wind	2022	6	17			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2022_6	33%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
33	CSA	existing_generic_wind	energywithmg_generic_wind	2022	7	17			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2022_7	23%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
34	CSA	existing_generic_wind	energywithmg_generic_wind	2022	8	17			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2022_8	21%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
35	CSA	existing_generic_wind	energywithmg_generic_wind	2022	9	17			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2022_9	15%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
36	CSA	existing_generic_wind	energywithmg_generic_wind	2022	10	17			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2022_10	8%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
37	CSA	existing_generic_wind	energywithmg_generic_wind	2022	11	17			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2022_11	12%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
38	CSA	existing_generic_wind	energywithmg_generic_wind	2022	12	17			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2022_12	13%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
39	CSA	existing_generic_wind	energywithmg_generic_wind	2023	1	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2023_1	14%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
40	CSA	existing_generic_wind	energywithmg_generic_wind	2023	2	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2023_2	12%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
41	CSA	existing_generic_wind	energywithmg_generic_wind	2023	3	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2023_3	28%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
42	CSA	existing_generic_wind	energywithmg_generic_wind	2023	4	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2023_4	25%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
43	CSA	existing_generic_wind	energywithmg_generic_wind	2023	5	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2023_5	25%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
44	CSA	existing_generic_wind	energywithmg_generic_wind	2023	6	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2023_6	33%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
45	CSA	existing_generic_wind	energywithmg_generic_wind	2023	7	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2023_7	23%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
46	CSA	existing_generic_wind	energywithmg_generic_wind	2023	8	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2023_8	21%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
47	CSA	existing_generic_wind	energywithmg_generic_wind	2023	9	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2023_9	15%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
48	CSA	existing_generic_wind	energywithmg_generic_wind	2023	10	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2023_10	8%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
49	CSA	existing_generic_wind	energywithmg_generic_wind	2023	11	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2023_11	12%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
50	CSA	existing_generic_wind	energywithmg_generic_wind	2023	12	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2023_12	13%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
51	CSA	existing_generic_wind	energywithmg_generic_wind	2024	1	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2024_1	16%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
52	CSA	existing_generic_wind	energywithmg_generic_wind	2024	2	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2024_2	14%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
53	CSA	existing_generic_wind	energywithmg_generic_wind	2024	3	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2024_3	32%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
54	CSA	existing_generic_wind	energywithmg_generic_wind	2024	4	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2024_4	29%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
55	CSA	existing_generic_wind	energywithmg_generic_wind	2024	5	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2024_5	29%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
56	CSA	existing_generic_wind	energywithmg_generic_wind	2024	6	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2024_6	38%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
57	CSA	existing_generic_wind	energywithmg_generic_wind	2024	7	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2024_7	26%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
58	CSA	existing_generic_wind	energywithmg_generic_wind	2024	8	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2024_8	24%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
59	CSA	existing_generic_wind	energywithmg_generic_wind	2024	9	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2024_9	17%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
60	CSA	existing_generic_wind	energywithmg_generic_wind	2024	10	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2024_10	9%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
61	CSA	existing_generic_wind	energywithmg_generic_wind	2024	11	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2024_11	14%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
62	CSA	existing_generic_wind	energywithmg_generic_wind	2024	12	9			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2024_12	15%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
63	CSA	existing_generic_wind	energywithmg_generic_wind	2025	1	5			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2025_1	18%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
64	CSA	existing_generic_wind	energywithmg_generic_wind	2025	2	5			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2025_2	16%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
65	CSA	existing_generic_wind	energywithmg_generic_wind	2025	3	5			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2025_3	36%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
66	CSA	existing_generic_wind	energywithmg_generic_wind	2025	4	5			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2025_4	33%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
67	CSA	existing_generic_wind	energywithmg_generic_wind	2025	5	5			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2025_5	33%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
68	CSA	existing_generic_wind	energywithmg_generic_wind	2025	6	5			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2025_6	43%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
69	CSA	existing_generic_wind	energywithmg_generic_wind	2025	7	5			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2025_7	30%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
70	CSA	existing_generic_wind	energywithmg_generic_wind	2025	8	5			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2025_8	27%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
71	CSA	existing_generic_wind	energywithmg_generic_wind	2025	9	5			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2025_9	20%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
72	CSA	existing_generic_wind	energywithmg_generic_wind	2025	10	5			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2025_10	10%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
73	CSA	existing_generic_wind	energywithmg_generic_wind	2025	11	5			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2025_11	15%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
74	CSA	existing_generic_wind	energywithmg_generic_wind	2025	12	5			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2025_12	17%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
75	CSA	existing_generic_wind	energywithmg_generic_wind	2026	1	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2026_1	20%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
76	CSA	existing_generic_wind	energywithmg_generic_wind	2026	2	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2026_2	17%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
77	CSA	existing_generic_wind	energywithmg_generic_wind	2026	3	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2026_3	41%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
78	CSA	existing_generic_wind	energywithmg_generic_wind	2026	4	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2026_4	36%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
79	CSA	existing_generic_wind	energywithmg_generic_wind	2026	5	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2026_5	36%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
80	CSA	existing_generic_wind	energywithmg_generic_wind	2026	6	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2026_6	48%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
81	CSA	existing_generic_wind	energywithmg_generic_wind	2026	7	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2026_7	33%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
82	CSA	existing_generic_wind	energywithmg_generic_wind	2026	8	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2026_8	31%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
83	CSA	existing_generic_wind	energywithmg_generic_wind	2026	9	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2026_9	22%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
84	CSA	existing_generic_wind	energywithmg_generic_wind	2026	10	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2026_10	12%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
85	CSA	existing_generic_wind	energywithmg_generic_wind	2026	11	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2026_11	17%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
86	CSA	existing_generic_wind	energywithmg_generic_wind	2026	12	2			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2026_12	19%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
87	CSA	existing_generic_wind	energywithmg_generic_wind	2027	1	3			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2027_1	20%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
88	CSA	existing_generic_wind	energywithmg_generic_wind	2027	2	3			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2027_2	17%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
89	CSA	existing_generic_wind	energywithmg_generic_wind	2027	3	3			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2027_3	41%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
90	CSA	existing_generic_wind	energywithmg_generic_wind	2027	4	3			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2027_4	36%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
91	CSA	existing_generic_wind	energywithmg_generic_wind	2027	5	3			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2027_5	36%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
92	CSA	existing_generic_wind	energywithmg_generic_wind	2027	6	3			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2027_6	48%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
93	CSA	existing_generic_wind	energywithmg_generic_wind	2027	7	3			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2027_7	33%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
94	CSA	existing_generic_wind	energywithmg_generic_wind	2027	8	3			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2027_8	30%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
95	CSA	existing_generic_wind	energywithmg_generic_wind	2027	9	3			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2027_9	22%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
96	CSA	existing_generic_wind	energywithmg_generic_wind	2027	10	3			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2027_10	12%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
97	CSA	existing_generic_wind	energywithmg_generic_wind	2027	11	3			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2027_11	17%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
98	CSA	existing_generic_wind	energywithmg_generic_wind	2027	12	3			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2027_12	19%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
99	CSA	existing_generic_wind	energywithmg_generic_wind	2028	1	4			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2028_1	20%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
100	CSA	existing_generic_wind	energywithmg_generic_wind	2028	2	4			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2028_2	17%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
101	CSA	existing_generic_wind	energywithmg_generic_wind	2028	3	4			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2028_3	41%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
102	CSA	existing_generic_wind	energywithmg_generic_wind	2028	4	4			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2028_4	36%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
103	CSA	existing_generic_wind	energywithmg_generic_wind	2028	5	4			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2028_5	36%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
104	CSA	existing_generic_wind	energywithmg_generic_wind	2028	6	4			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2028_6	48%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
105	CSA	existing_generic_wind	energywithmg_generic_wind	2028	7	4			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2028_7	33%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
106	CSA	existing_generic_wind	energywithmg_generic_wind	2028	8	4			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2028_8	30%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
107	CSA	existing_generic_wind	energywithmg_generic_wind	2028	9	4			planned_existing			0	CAISO_Wind	1	wind_low_cf	wind_low_cf_2028_9	22%	1			ok	existing_generic	1	0	existing_generic_wind_energywithmg existing_generic_wind_none
108	CSA	existing_generic_wind	energywithmg_generic_wind	2028	10	4			planned_existing			0	CAISO_Wind	1

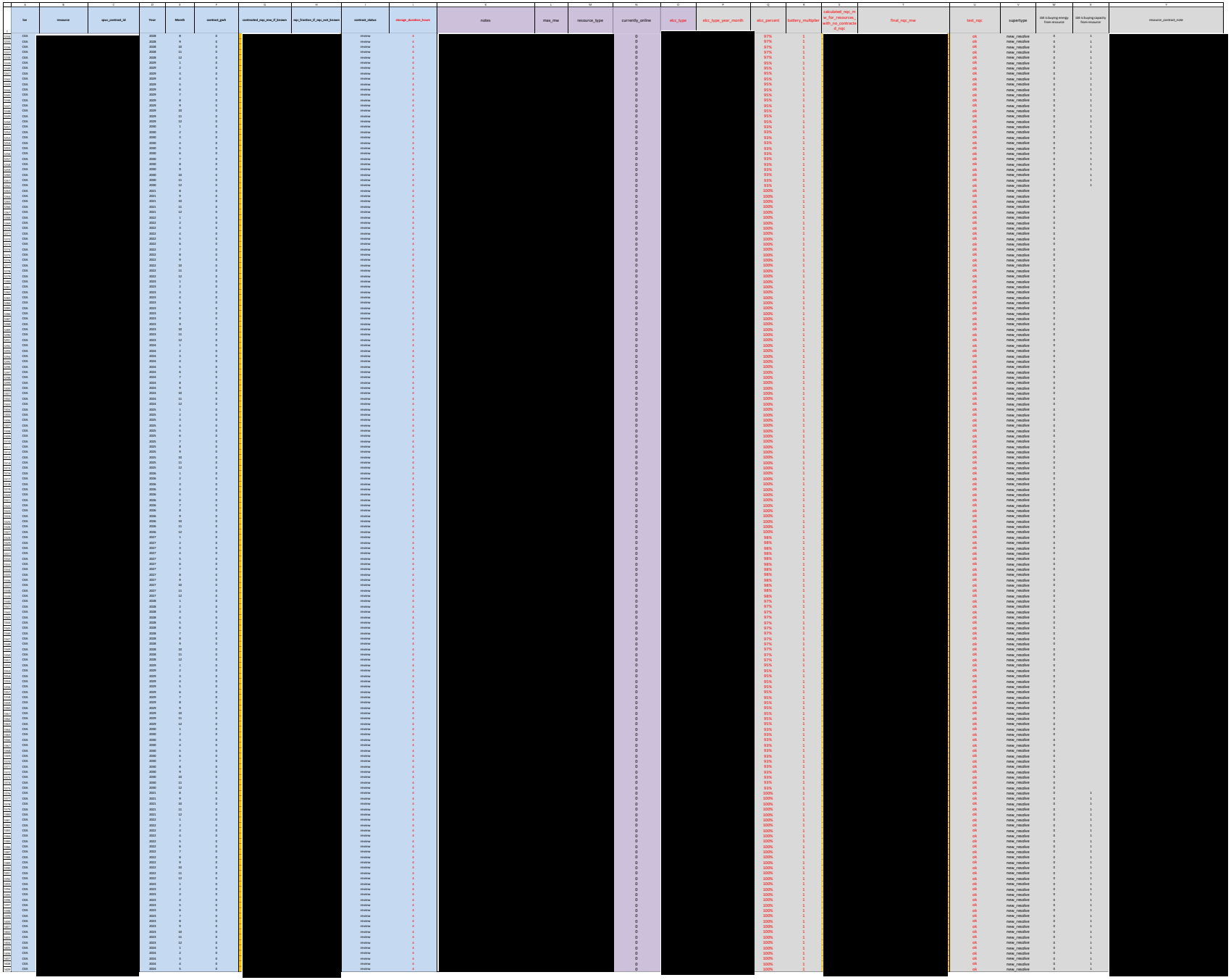
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	iso	resource	opac_contract_id	Year	Month	contract_gwh	contracted_mpc_mw_if_known	mpc_fraction_if_mpc_not_known	contract_status	storage_duration_hours	notes	max_mw	resource_type	currently_online	elcc_type	elcc_type_year_month	elcc_percent	battery_multiplier	calculated_mpc_mw_for_resource_with_no_contracted_mpc	final_mpc_mw	test_mpc	supertype	100 is buying energy from resource	100 is buying capacity from resource	resource_contract_note
2	CAISO	New_Hybrid	energy/New_Hybrid_2023	2026	7	27			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2026_7	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
3	CAISO	New_Hybrid	energy/New_Hybrid_2023	2026	8	26			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2026_8	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
4	CAISO	New_Hybrid	energy/New_Hybrid_2023	2026	9	23			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2026_9	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
5	CAISO	New_Hybrid	energy/New_Hybrid_2023	2026	10	20			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2026_10	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
6	CAISO	New_Hybrid	energy/New_Hybrid_2023	2026	11	16			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2026_11	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
7	CAISO	New_Hybrid	energy/New_Hybrid_2023	2026	12	14			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2026_12	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
8	CAISO	New_Hybrid	energy/New_Hybrid_2023	2027	1	15			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2027_1	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
9	CAISO	New_Hybrid	energy/New_Hybrid_2023	2027	2	17			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2027_2	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
10	CAISO	New_Hybrid	energy/New_Hybrid_2023	2027	3	24			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2027_3	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
11	CAISO	New_Hybrid	energy/New_Hybrid_2023	2027	4	26			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2027_4	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
12	CAISO	New_Hybrid	energy/New_Hybrid_2023	2027	5	28			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2027_5	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
13	CAISO	New_Hybrid	energy/New_Hybrid_2023	2027	6	28			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2027_6	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
14	CAISO	New_Hybrid	energy/New_Hybrid_2023	2027	7	27			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2027_7	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
15	CAISO	New_Hybrid	energy/New_Hybrid_2023	2027	8	26			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2027_8	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
16	CAISO	New_Hybrid	energy/New_Hybrid_2023	2027	9	23			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2027_9	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
17	CAISO	New_Hybrid	energy/New_Hybrid_2023	2027	10	20			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2027_10	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
18	CAISO	New_Hybrid	energy/New_Hybrid_2023	2027	11	16			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2027_11	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
19	CAISO	New_Hybrid	energy/New_Hybrid_2023	2027	12	14			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2027_12	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
20	CAISO	New_Hybrid	energy/New_Hybrid_2023	2028	1	15			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2028_1	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
21	CAISO	New_Hybrid	energy/New_Hybrid_2023	2028	2	17			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2028_2	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
22	CAISO	New_Hybrid	energy/New_Hybrid_2023	2028	3	24			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2028_3	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
23	CAISO	New_Hybrid	energy/New_Hybrid_2023	2028	4	26			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2028_4	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
24	CAISO	New_Hybrid	energy/New_Hybrid_2023	2028	5	28			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2028_5	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
25	CAISO	New_Hybrid	energy/New_Hybrid_2023	2028	6	28			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2028_6	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
26	CAISO	New_Hybrid	energy/New_Hybrid_2023	2028	7	27			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2028_7	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
27	CAISO	New_Hybrid	energy/New_Hybrid_2023	2028	8	26			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2028_8	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
28	CAISO	New_Hybrid	energy/New_Hybrid_2023	2028	9	23			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2028_9	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
29	CAISO	New_Hybrid	energy/New_Hybrid_2023	2028	10	20			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2028_10	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
30	CAISO	New_Hybrid	energy/New_Hybrid_2023	2028	11	16			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2028_11	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
31	CAISO	New_Hybrid	energy/New_Hybrid_2023	2028	12	14			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2028_12	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
32	CAISO	New_Hybrid	energy/New_Hybrid_2023	2029	1	15			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2029_1	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
33	CAISO	New_Hybrid	energy/New_Hybrid_2023	2029	2	17			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2029_2	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
34	CAISO	New_Hybrid	energy/New_Hybrid_2023	2029	3	24			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2029_3	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
35	CAISO	New_Hybrid	energy/New_Hybrid_2023	2029	4	26			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2029_4	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
36	CAISO	New_Hybrid	energy/New_Hybrid_2023	2029	5	28			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2029_5	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
37	CAISO	New_Hybrid	energy/New_Hybrid_2023	2029	6	28			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2029_6	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
38	CAISO	New_Hybrid	energy/New_Hybrid_2023	2029	7	27			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2029_7	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
39	CAISO	New_Hybrid	energy/New_Hybrid_2023	2029	8	26			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2029_8	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
40	CAISO	New_Hybrid	energy/New_Hybrid_2023	2029	9	23			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2029_9	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
41	CAISO	New_Hybrid	energy/New_Hybrid_2023	2029	10	20			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2029_10	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
42	CAISO	New_Hybrid	energy/New_Hybrid_2023	2029	11	16			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2029_11	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
43	CAISO	New_Hybrid	energy/New_Hybrid_2023	2029	12	14			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2029_12	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
44	CAISO	New_Hybrid	energy/New_Hybrid_2023	2030	1	15			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2030_1	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
45	CAISO	New_Hybrid	energy/New_Hybrid_2023	2030	2	17			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2030_2	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
46	CAISO	New_Hybrid	energy/New_Hybrid_2023	2030	3	24			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2030_3	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
47	CAISO	New_Hybrid	energy/New_Hybrid_2023	2030	4	26			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2030_4	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
48	CAISO	New_Hybrid	energy/New_Hybrid_2023	2030	5	28			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2030_5	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
49	CAISO	New_Hybrid	energy/New_Hybrid_2023	2030	6	28			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2030_6	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
50	CAISO	New_Hybrid	energy/New_Hybrid_2023	2030	7	27			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2030_7	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
51	CAISO	New_Hybrid	energy/New_Hybrid_2023	2030	8	26			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2030_8	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
52	CAISO	New_Hybrid	energy/New_Hybrid_2023	2030	9	23			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2030_9	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
53	CAISO	New_Hybrid	energy/New_Hybrid_2023	2030	10	20			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2030_10	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
54	CAISO	New_Hybrid	energy/New_Hybrid_2023	2030	11	16			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2030_11	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
55	CAISO	New_Hybrid	energy/New_Hybrid_2023	2030	12	14			planned_new	4		100	CAISO_Hybrid	0	unknown	unknown_2030_12	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2023_Hybrid 100 MW Solar, 50MW Storage
56	CAISO	New_Hybrid	energy/New_Hybrid_2026	2026	1	8			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2026_1	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
57	CAISO	New_Hybrid	energy/New_Hybrid_2026	2026	2	9			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2026_2	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
58	CAISO	New_Hybrid	energy/New_Hybrid_2026	2026	3	12			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2026_3	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
59	CAISO	New_Hybrid	energy/New_Hybrid_2026	2026	4	13			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2026_4	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
60	CAISO	New_Hybrid	energy/New_Hybrid_2026	2026	5	14			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2026_5	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
61	CAISO	New_Hybrid	energy/New_Hybrid_2026	2026	6	14			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2026_6	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
62	CAISO	New_Hybrid	energy/New_Hybrid_2026	2026	7	13			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2026_7	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
63	CAISO	New_Hybrid	energy/New_Hybrid_2026	2026	8	13			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2026_8	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
64	CAISO	New_Hybrid	energy/New_Hybrid_2026	2026	9	11			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2026_9	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
65	CAISO	New_Hybrid	energy/New_Hybrid_2026	2026	10	10			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2026_10	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
66	CAISO	New_Hybrid	energy/New_Hybrid_2026	2026	11	8			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2026_11	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
67	CAISO	New_Hybrid	energy/New_Hybrid_2026	2026	12	7			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2026_12	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
68	CAISO	New_Hybrid	energy/New_Hybrid_2026	2027	1	8			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2027_1	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
69	CAISO	New_Hybrid	energy/New_Hybrid_2026	2027	2	9			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2027_2	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
70	CAISO	New_Hybrid	energy/New_Hybrid_2026	2027	3	12			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2027_3	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
71	CAISO	New_Hybrid	energy/New_Hybrid_2026	2027	4	13			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2027_4	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
72	CAISO	New_Hybrid	energy/New_Hybrid_2026	2027	5	14			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2027_5	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
73	CAISO	New_Hybrid	energy/New_Hybrid_2026	2027	6	14			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2027_6	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
74	CAISO	New_Hybrid	energy/New_Hybrid_2026	2027	7	13			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2027_7	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
75	CAISO	New_Hybrid	energy/New_Hybrid_2026	2027	8	13			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2027_8	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
76	CAISO	New_Hybrid	energy/New_Hybrid_2026	2027	9	11			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2027_9	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
77	CAISO	New_Hybrid	energy/New_Hybrid_2026	2027	10	10			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2027_10	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
78	CAISO	New_Hybrid	energy/New_Hybrid_2026	2027	11	8			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2027_11	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
79	CAISO	New_Hybrid	energy/New_Hybrid_2026	2027	12	7			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2027_12	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
80	CAISO	New_Hybrid	energy/New_Hybrid_2026	2028	1	8			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2028_1	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
81	CAISO	New_Hybrid	energy/New_Hybrid_2026	2028	2	9			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2028_2	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
82	CAISO	New_Hybrid	energy/New_Hybrid_2026	2028	3	12			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2028_3	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
83	CAISO	New_Hybrid	energy/New_Hybrid_2026	2028	4	13			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2028_4	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
84	CAISO	New_Hybrid	energy/New_Hybrid_2026	2028	5	14			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2028_5	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
85	CAISO	New_Hybrid	energy/New_Hybrid_2026	2028	6	14			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2028_6	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
86	CAISO	New_Hybrid	energy/New_Hybrid_2026	2028	7	13			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2028_7	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
87	CAISO	New_Hybrid	energy/New_Hybrid_2026	2028	8	13			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2028_8	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
88	CAISO	New_Hybrid	energy/New_Hybrid_2026	2028	9	11			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2028_9	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
89	CAISO	New_Hybrid	energy/New_Hybrid_2026	2028	10	10			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2028_10	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
90	CAISO	New_Hybrid	energy/New_Hybrid_2026	2028	11	8			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2028_11	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
91	CAISO	New_Hybrid	energy/New_Hybrid_2026	2028	12	7			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2028_12	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
92	CAISO	New_Hybrid	energy/New_Hybrid_2026	2029	1	8			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2029_1	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
93	CAISO	New_Hybrid	energy/New_Hybrid_2026	2029	2	9			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2029_2	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
94	CAISO	New_Hybrid	energy/New_Hybrid_2026	2029	3	12			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2029_3	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
95	CAISO	New_Hybrid	energy/New_Hybrid_2026	2029	4	13			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2029_4	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
96	CAISO	New_Hybrid	energy/New_Hybrid_2026	2029	5	14			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2029_5	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026_Hybrid 50 MW Solar, 25 MW Storage
97	CAISO	New_Hybrid	energy/New_Hybrid_2026	2029	6	14			planned_new	4		50	CAISO_Hybrid	0	unknown	unknown_2029_6	0%	1			ok	new_resolve	1	1	New_Hybrid_energy/New_Hybrid_2026

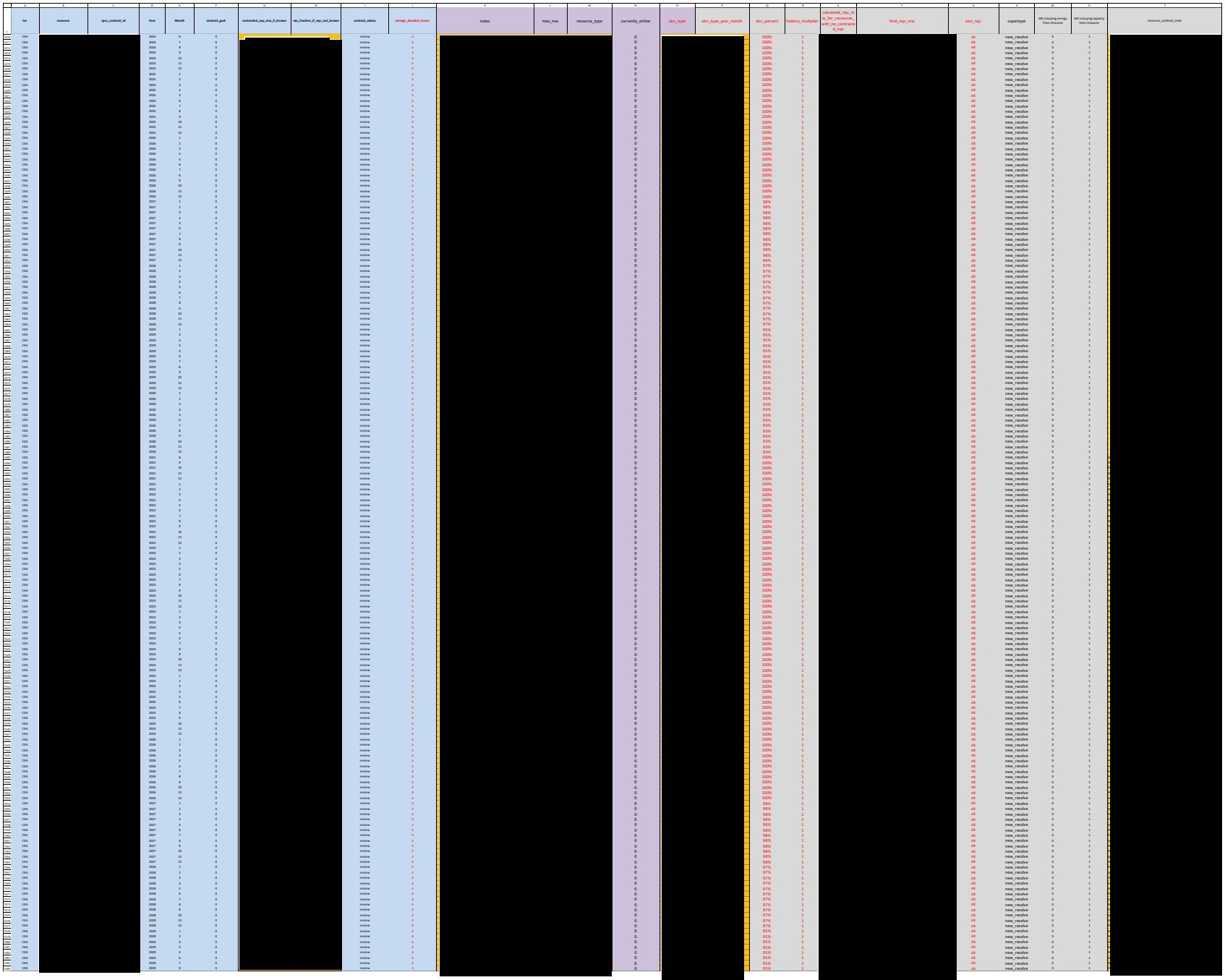


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
	ba	resource	opac_contract_id	Year	Month	contract_perh	contracted_mpc_mw_if_known	mpc_fraction_if_mpc_not_known	contract_status	storage_duration_hours	notes	max_mw	resource_type	currently_online	elcc_type	elcc_type_year_month	elcc_percent	battery_multiplier	calculated_mpc_mw_for_resource_with_no_contracted_mpc	final_mpc_mw	test_mpc	supertype	GW it is buying energy from resource	GW it is buying capacity from resource	resource_contract_note
1	CSA	[redacted]	[redacted]	2028	11	0	[redacted]	[redacted]	planned_existing		[redacted]	[redacted]	[redacted]	1	[redacted]	[redacted]	0%	1	[redacted]	[redacted]	0	existing_generic	0	1	[redacted]
2	CSA			2028	12	0			planned_existing					1			0%	1			0	existing_generic	0	1	
3	CSA			2029	1	0			planned_existing					1			0%	1			0	existing_generic	0	1	
4	CSA			2029	2	0			planned_existing					1			0%	1			0	existing_generic	0	1	
5	CSA			2029	3	0			planned_existing					1			0%	1			0	existing_generic	0	1	
6	CSA			2029	4	0			planned_existing					1			0%	1			0	existing_generic	0	1	
7	CSA			2029	5	0			planned_existing					1			0%	1			0	existing_generic	0	1	
8	CSA			2029	6	0			planned_existing					1			0%	1			0	existing_generic	0	1	
9	CSA			2029	7	0			planned_existing					1			0%	1			0	existing_generic	0	1	
10	CSA			2029	8	0			planned_existing					1			0%	1			0	existing_generic	0	1	
11	CSA			2029	9	0			planned_existing					1			0%	1			0	existing_generic	0	1	
12	CSA			2029	10	0			planned_existing					1			0%	1			0	existing_generic	0	1	
13	CSA			2029	11	0			planned_existing					1			0%	1			0	existing_generic	0	1	
14	CSA			2029	12	0			planned_existing					1			0%	1			0	existing_generic	0	1	
15	CSA			2030	1	0			planned_existing					1			0%	1			0	existing_generic	0	1	
16	CSA			2030	2	0			planned_existing					1			0%	1			0	existing_generic	0	1	
17	CSA			2030	3	0			planned_existing					1			0%	1			0	existing_generic	0	1	
18	CSA			2030	4	0			planned_existing					1			0%	1			0	existing_generic	0	1	
19	CSA			2030	5	0			planned_existing					1			0%	1			0	existing_generic	0	1	
20	CSA			2030	6	0			planned_existing					1			0%	1			0	existing_generic	0	1	
21	CSA			2030	7	0			planned_existing					1			0%	1			0	existing_generic	0	1	
22	CSA			2030	8	0			planned_existing					1			0%	1			0	existing_generic	0	1	
23	CSA			2030	9	0			planned_existing					1			0%	1			0	existing_generic	0	1	
24	CSA			2030	10	0			planned_existing					1			0%	1			0	existing_generic	0	1	
25	CSA			2030	11	0			planned_existing					1			0%	1			0	existing_generic	0	1	
26	CSA			2030	12	0			planned_existing					1			0%	1			0	existing_generic	0	1	
27	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2021	1	0			online			0	blended	1	unknown	unknown_2021_1	0%	1			dr	special	0	0	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
28	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2021	2	0			online			0	blended	1	unknown	unknown_2021_2	0%	1			dr	special	0	0	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
29	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2021	3	0			online			0	blended	1	unknown	unknown_2021_3	0%	1			dr	special	0	0	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
30	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2021	4	0			online			0	blended	1	unknown	unknown_2021_4	0%	1			dr	special	0	0	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
31	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2021	5	0			online			47.49	blended	1	unknown	unknown_2021_5	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
32	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2021	6	0			online			43.94	blended	1	unknown	unknown_2021_6	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
33	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2021	7	0			online			45.34	blended	1	unknown	unknown_2021_7	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
34	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2021	8	0			online			44.02	blended	1	unknown	unknown_2021_8	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
35	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2021	9	0			online			44.53	blended	1	unknown	unknown_2021_9	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
36	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2021	10	0			online			45.52	blended	1	unknown	unknown_2021_10	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
37	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2021	11	0			online			52.09	blended	1	unknown	unknown_2021_11	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
38	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2021	12	0			online			48.52	blended	1	unknown	unknown_2021_12	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
39	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2022	1	0			online			51.71404516	blended	1	unknown	unknown_2022_1	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
40	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2022	2	0			online			43.16858918	blended	1	unknown	unknown_2022_2	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
41	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2022	3	0			online			43.68261529	blended	1	unknown	unknown_2022_3	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
42	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2022	4	0			online			40.41870673	blended	1	unknown	unknown_2022_4	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
43	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2022	5	0			online			47.49	blended	1	unknown	unknown_2022_5	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
44	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2022	6	0			online			43.94	blended	1	unknown	unknown_2022_6	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
45	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2022	7	0			online			45.34	blended	1	unknown	unknown_2022_7	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
46	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2022	8	0			online			44.02	blended	1	unknown	unknown_2022_8	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
47	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2022	9	0			online			44.53	blended	1	unknown	unknown_2022_9	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
48	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2022	10	0			online			45.52	blended	1	unknown	unknown_2022_10	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
49	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2022	11	0			online			52.09	blended	1	unknown	unknown_2022_11	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
50	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2022	12	0			online			48.52	blended	1	unknown	unknown_2022_12	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
51	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2023	1	0			online			51.71404516	blended	1	unknown	unknown_2023_1	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
52	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2023	2	0			online			43.16858918	blended	1	unknown	unknown_2023_2	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
53	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2023	3	0			online			43.68261529	blended	1	unknown	unknown_2023_3	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
54	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2023	4	0			online			40.41870673	blended	1	unknown	unknown_2023_4	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
55	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2023	5	0			online			47.49	blended	1	unknown	unknown_2023_5	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
56	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2023	6	0			online			43.94	blended	1	unknown	unknown_2023_6	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
57	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2023	7	0			online			45.34	blended	1	unknown	unknown_2023_7	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
58	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2023	8	0			online			44.02	blended	1	unknown	unknown_2023_8	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
59	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2023	9	0			online			44.53	blended	1	unknown	unknown_2023_9	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
60	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2023	10	0			online			45.52	blended	1	unknown	unknown_2023_10	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
61	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2023	11	0			online			52.09	blended	1	unknown	unknown_2023_11	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
62	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2023	12	0			online			48.52	blended	1	unknown	unknown_2023_12	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
63	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2024	1	0			online			51.71404516	blended	1	unknown	unknown_2024_1	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
64	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2024	2	0			online			43.16858918	blended	1	unknown	unknown_2024_2	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
65	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2024	3	0			online			43.68261529	blended	1	unknown	unknown_2024_3	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
66	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2024	4	0			online			40.41870673	blended	1	unknown	unknown_2024_4	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
67	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2024	5	0			online			47.49	blended	1	unknown	unknown_2024_5	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
68	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2024	6	0			online			43.94	blended	1	unknown	unknown_2024_6	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
69	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2024	7	0			online			45.34	blended	1	unknown	unknown_2024_7	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
70	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2024	8	0			online			44.02	blended	1	unknown	unknown_2024_8	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
71	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2024	9	0			online			44.53	blended	1	unknown	unknown_2024_9	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
72	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2024	10	0			online			45.52	blended	1	unknown	unknown_2024_10	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
73	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2024	11	0			online			52.09	blended	1	unknown	unknown_2024_11	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
74	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2024	12	0			online			48.52	blended	1	unknown	unknown_2024_12	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
75	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2025	1	0			online			51.71404516	blended	1	unknown	unknown_2025_1	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
76	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2025	2	0			online			43.16858918	blended	1	unknown	unknown_2025_2	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
77	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2025	3	0			online			43.68261529	blended	1	unknown	unknown_2025_3	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
78	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2025	4	0			online			40.41870673	blended	1	unknown	unknown_2025_4	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
79	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2025	5	0			online			47.49	blended	1	unknown	unknown_2025_5	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
80	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2025	6	0			online			43.94	blended	1	unknown	unknown_2025_6	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
81	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2025	7	0			online			45.34	blended	1	unknown	unknown_2025_7	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
82	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2025	8	0			online			44.02	blended	1	unknown	unknown_2025_8	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
83	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2025	9	0			online			44.53	blended	1	unknown	unknown_2025_9	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
84	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2025	10	0			online			45.52	blended	1	unknown	unknown_2025_10	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
85	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2025	11	0			online			52.09	blended	1	unknown	unknown_2025_11	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
86	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2025	12	0			online			48.52	blended	1	unknown	unknown_2025_12	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
87	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2026	1	0			online			51.71404516	blended	1	unknown	unknown_2026_1	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
88	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2026	2	0			online			43.16858918	blended	1	unknown	unknown_2026_2	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
89	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2026	3	0			online			43.68261529	blended	1	unknown	unknown_2026_3	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
90	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2026	4	0			online			40.41870673	blended	1	unknown	unknown_2026_4	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
91	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2026	5	0			online			47.49	blended	1	unknown	unknown_2026_5	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
92	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2026	6	0			online			43.94	blended	1	unknown	unknown_2026_6	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
93	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2026	7	0			online			45.34	blended	1	unknown	unknown_2026_7	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
94	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2026	8	0			online			44.02	blended	1	unknown	unknown_2026_8	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
95	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2026	9	0			online			44.53	blended	1	unknown	unknown_2026_9	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
96	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2026	10	0			online			45.52	blended	1	unknown	unknown_2026_10	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
97	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2026	11	0			online			52.09	blended	1	unknown	unknown_2026_11	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
98	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2026	12	0			online			48.52	blended	1	unknown	unknown_2026_12	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
99	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2027	1	0			online			51.71404516	blended	1	unknown	unknown_2027_1	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
100	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2027	2	0			online			43.16858918	blended	1	unknown	unknown_2027_2	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
101	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2027	3	0			online			43.68261529	blended	1	unknown	unknown_2027_3	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
102	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2027	4	0			online			40.41870673	blended	1	unknown	unknown_2027_4	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
103	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2027	5	0			online			47.49	blended	1	unknown	unknown_2027_5	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
104	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2027	6	0			online			43.94	blended	1	unknown	unknown_2027_6	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
105	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2027	7	0			online			45.34	blended	1	unknown	unknown_2027_7	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
106	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2027	8	0			online			44.02	blended	1	unknown	unknown_2027_8	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
107	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2027	9	0			online			44.53	blended	1	unknown	unknown_2027_9	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
108	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2027	10	0			online			45.52	blended	1	unknown	unknown_2027_10	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
109	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2027	11	0			online			52.09	blended	1	unknown	unknown_2027_11	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
110	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2027	12	0			online			48.52	blended	1	unknown	unknown_2027_12	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
111	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2028	1	0			online			51.71404516	blended	1	unknown	unknown_2028_1	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
112	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2028	2	0			online			43.16858918	blended	1	unknown	unknown_2028_2	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
113	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2028	3	0			online			43.68261529	blended	1	unknown	unknown_2028_3	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
114	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2028	4	0			online			40.41870673	blended	1	unknown	unknown_2028_4	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
115	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2028	5	0			online			47.49	blended	1	unknown	unknown_2028_5	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
116	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2028	6	0			online			43.94	blended	1	unknown	unknown_2028_6	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
117	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2028	7	0			online			45.34	blended	1	unknown	unknown_2028_7	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
118	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2028	8	0			online			44.02	blended	1	unknown	unknown_2028_8	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
119	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2028	9	0			online			44.53	blended	1	unknown	unknown_2028_9	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
120	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2028	10	0			online			45.52	blended	1	unknown	unknown_2028_10	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
121	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2028	11	0			online			52.09	blended	1	unknown	unknown_2028_11	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
122	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2028	12	0			online			48.52	blended	1	unknown	unknown_2028_12	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
123	CSA	blended	caiso%5Bdot%5Dcom#Allocation	2029	1	0			online			51.71404516	blended	1	unknown	unknown_2029_1	0%	1			dr	special	0	1	blended_caiso%5Bdot%5Dcom#Allocation_CAM and Demand Response Allocation
124	CSA	bl









	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
	iso	resource	cpac_contract_id	Year	Month	contract_gwh	contracted_mpc_mw_if_known	mpc_fraction_if_mpc_not_known	contract_status	storage_duration_hours	notes	max_mw	resource_type	currently_online	elcc_type	elcc_type_year_month	elcc_percent	battery_multiplier	calculated_mpc_mw_for_resource_with_no_contracted_mpc	final_mpc_mw	test_mpc	supertype	100 is buying energy from resource	100 is buying capacity from resource	resource_contract_note
1	CAA			2029	9	0			nnnnw	0				0			95%	1			ok	new_resolve	0	1	
2	CAA			2029	10	0			nnnnw	0				0			95%	1			ok	new_resolve	0	1	
3	CAA			2029	11	0			nnnnw	0				0			95%	1			ok	new_resolve	0	1	
4	CAA			2029	12	0			nnnnw	0				0			95%	1			ok	new_resolve	0	1	
5	CAA			2030	1	0			nnnnw	0				0			93%	1			ok	new_resolve	0	1	
6	CAA			2030	2	0			nnnnw	0				0			93%	1			ok	new_resolve	0	1	
7	CAA			2030	3	0			nnnnw	0				0			93%	1			ok	new_resolve	0	1	
8	CAA			2030	4	0			nnnnw	0				0			93%	1			ok	new_resolve	0	1	
9	CAA			2030	5	0			nnnnw	0				0			93%	1			ok	new_resolve	0	1	
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11	CAA			2030	7	0			nnnnw	0				0			93%	1			ok	new_resolve	0	1	
12	CAA			2030	8	0			nnnnw	0				0			93%	1			ok	new_resolve	0	1	
13	CAA			2030	9	0			nnnnw	0				0			93%	1			ok	new_resolve	0	1	
14	CAA			2030	10	0			nnnnw	0				0			93%	1			ok	new_resolve	0	1	
15	CAA			2030	11	0			nnnnw	0				0			93%	1			ok	new_resolve	0	1	
16	CAA			2030	12	0			nnnnw	0				0			93%	1			ok	new_resolve	0	1	
17	CAA			2031	8	0			nnnnw	0				1			100%	1			ok	physical	0	1	
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19	CAA			2031	10	0			nnnnw	0				1			100%	1			ok	physical	0	1	
20	CAA			2031	11	0			nnnnw	0				1			100%	1			ok	physical	0	1	
21	CAA			2031	12	0			nnnnw	0				1			100%	1			ok	physical	0	1	
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24	CAA			2032	3	0			nnnnw	0				1			100%	1			ok	physical	0	1	
25	CAA			2032	4	0			nnnnw	0				1			100%	1			ok	physical	0	1	
26	CAA			2032	5	0			nnnnw	0				1			100%	1			ok	physical	0	1	
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34	CAA			2033	1	0			nnnnw	0				1			100%	1			ok	physical	0	1	
35	CAA			2033	2	0			nnnnw	0				1			100%	1			ok	physical	0	1	
36	CAA			2033	3	0			nnnnw	0				1			100%	1			ok	physical	0	1	
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94	CAA			2038	1	0			nnnnw	0				1			97%	1			ok	physical	0	1	
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99	CAA			2038	6	0			nnnnw	0				1			97%	1			ok	physical	0	1	
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108	CAA			2029	3	0			nnnnw	0				1			95%	1			ok	physical	0	1	
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133	CAA			2023	11	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
134	CAA			2023	12	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
135	CAA			2024	1	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
136	CAA			2024	2	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
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141	CAA			2024	7	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
142	CAA			2024	8	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
143	CAA			2024	9	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
144	CAA			2024	10	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
145	CAA			2024	11	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
146	CAA			2024	12	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
147	CAA			2025	1	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
148	CAA			2025	2	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
149	CAA			2025	3	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
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151	CAA			2025	5	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
152	CAA			2025	6	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
153	CAA			2025	7	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
154	CAA			2025	8	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
155	CAA			2025	9	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
156	CAA			2025	10	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
157	CAA			2025	11	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
158	CAA			2025	12	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
159	CAA			2026	1	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
160	CAA			2026	2	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
161	CAA			2026	3	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
162	CAA			2026	4	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
163	CAA			2026	5	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
164	CAA			2026	6	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
165	CAA			2026	7	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
166	CAA			2026	8	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
167	CAA			2026	9	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
168	CAA			2026	10	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
169	CAA			2026	11	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
170	CAA			2026	12	0			planned_new	0				0			100%	1			ok	new_resolve	0	1	
171	CAA			2027	1	0			planned_new	0				0			98%	1			ok	new_resolve	0	1	
172	CAA			2027	2	0			planned_new	0				0			98%	1			ok	new_resolve	0	1	
173	CAA			2027	3	0			planned_new	0				0			98%	1			ok	new_resolve	0	1	
174	CAA			2027	4	0			planned_new	0				0			98%	1			ok	new_resolve	0	1	
175	CAA			2027	5	0			planned_new	0				0			98%	1			ok	new_resolve	0	1	
176	CAA			2027	6	0			planned_new	0				0			98%	1			ok	new_resolve	0	1	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
	tse	resource	opac_contract_id	Year	Month	contract_gwh	contracted_mpc_mw_if_known	mpc_fraction_if_mpc_not_known	contract_status	storage_duration_hours	notes	max_mw	resource_type	currently_online	elcc_type	elcc_type_year_month	elcc_percent	battery_multiplier	calculated_mpc_mw_for_resource_with_no_contracted_mpc	final_mpc_mw	test_mpc	supertype	100 is buying energy from resource	100 is buying capacity from resource	resource_contract_note
1112	CSA	[redacted]	[redacted]	2027	7	0	[redacted]	[redacted]	planned_new	4	[redacted]			0	[redacted]		98%	1	[redacted]	[redacted]	ok	new_resolve	0	1	[redacted]
1113	CSA			2027	8	0			planned_new	4				0			98%	1			ok	new_resolve	0	1	
1114	CSA			2027	9	0			planned_new	4				0			98%	1			ok	new_resolve	0	1	
1115	CSA			2027	10	0			planned_new	4				0			98%	1			ok	new_resolve	0	1	
1116	CSA			2027	11	0			planned_new	4				0			98%	1			ok	new_resolve	0	1	
1117	CSA			2027	12	0			planned_new	4				0			98%	1			ok	new_resolve	0	1	
1118	CSA			2028	1	0			planned_new	4				0			97%	1			ok	new_resolve	0	1	
1119	CSA			2028	2	0			planned_new	4				0			97%	1			ok	new_resolve	0	1	
1120	CSA			2028	3	0			planned_new	4				0			97%	1			ok	new_resolve	0	1	
1121	CSA			2028	4	0			planned_new	4				0			97%	1			ok	new_resolve	0	1	
1122	CSA			2028	5	0			planned_new	4				0			97%	1			ok	new_resolve	0	1	
1123	CSA			2028	6	0			planned_new	4				0			97%	1			ok	new_resolve	0	1	
1124	CSA			2028	7	0			planned_new	4				0			97%	1			ok	new_resolve	0	1	
1125	CSA			2028	8	0			planned_new	4				0			97%	1			ok	new_resolve	0	1	
1126	CSA			2028	9	0			planned_new	4				0			97%	1			ok	new_resolve	0	1	
1127	CSA			2028	10	0			planned_new	4				0			97%	1			ok	new_resolve	0	1	
1128	CSA			2028	11	0			planned_new	4				0			97%	1			ok	new_resolve	0	1	
1129	CSA			2028	12	0			planned_new	4				0			97%	1			ok	new_resolve	0	1	
1130	CSA			2029	1	0			planned_new	4				0			95%	1			ok	new_resolve	0	1	
1131	CSA			2029	2	0			planned_new	4				0			95%	1			ok	new_resolve	0	1	
1132	CSA			2029	3	0			planned_new	4				0			95%	1			ok	new_resolve	0	1	
1133	CSA			2029	4	0			planned_new	4				0			95%	1			ok	new_resolve	0	1	
1134	CSA			2029	5	0			planned_new	4				0			95%	1			ok	new_resolve	0	1	
1135	CSA			2029	6	0			planned_new	4				0			95%	1			ok	new_resolve	0	1	
1136	CSA			2029	7	0			planned_new	4				0			95%	1			ok	new_resolve	0	1	
1137	CSA			2029	8	0			planned_new	4				0			95%	1			ok	new_resolve	0	1	
1138	CSA			2029	9	0			planned_new	4				0			95%	1			ok	new_resolve	0	1	
1139	CSA			2029	10	0			planned_new	4				0			95%	1			ok	new_resolve	0	1	
1140	CSA			2029	11	0			planned_new	4				0			95%	1			ok	new_resolve	0	1	
1141	CSA			2029	12	0			planned_new	4				0			95%	1			ok	new_resolve	0	1	
1142	CSA			2030	1	0			planned_new	4				0			93%	1			ok	new_resolve	0	1	
1143	CSA			2030	2	0			planned_new	4				0			93%	1			ok	new_resolve	0	1	
1144	CSA			2030	3	0			planned_new	4				0			93%	1			ok	new_resolve	0	1	
1145	CSA			2030	4	0			planned_new	4				0			93%	1			ok	new_resolve	0	1	
1146	CSA			2030	5	0			planned_new	4				0			93%	1			ok	new_resolve	0	1	
1147	CSA			2030	6	0			planned_new	4				0			93%	1			ok	new_resolve	0	1	
1148	CSA			2030	7	0			planned_new	4				0			93%	1			ok	new_resolve	0	1	
1149	CSA			2030	8	0			planned_new	4				0			93%	1			ok	new_resolve	0	1	
1150	CSA			2030	9	0			planned_new	4				0			93%	1			ok	new_resolve	0	1	
1151	CSA			2030	10	0			planned_new	4				0			93%	1			ok	new_resolve	0	1	
1152	CSA			2030	11	0			planned_new	4				0			93%	1			ok	new_resolve	0	1	
1153	CSA			2030	12	0			planned_new	4				0			93%	1			ok	new_resolve	0	1	

	A	B	C	D	E	F	G	H
1	resource_num	resource	note	resource_contract_note	online	online_date_for_new_resources	contract_execution_date	contract_start
2	1	[redacted]			1	**ok**	10/28/2019	1/1/2020
3	2				1	**ok**	3/12/2019	1/1/2020
4	3				1	**ok**	6/11/2020	8/1/2020
5	4				1	**ok**	6/25/2019	7/1/2020
6	5				1	**ok**	4/30/2020	1/1/2020
7	6				1	**ok**	6/30/2020	7/1/2020
8	7				1	**ok**	1/25/2019	1/1/2020
9	8				1	**ok**	9/18/2019	1/1/2020
10	9				1	**ok**	1/1/2021	5/1/2021
11	10				1	**ok**	1/1/2021	5/1/2021
12	11				0	**1/1/2023**	1/1/2021	1/1/2023
13	12				0	**1/1/2026**	1/1/2024	1/1/2026
14	13				0	**1/1/2024**	1/1/2022	1/1/2024
15	14				0	**1/1/2026**	1/1/2024	1/1/2026
16	15				1	**ok**	10/1/2020	5/1/2021
17	16				1	**ok**	1/1/2021	5/1/2021
18	17				1	**ok**	1/1/2021	1/1/2021
19	18				1	**ok**	1/1/2021	1/1/2021
20	19				0	**8/1/2022**	9/1/2020	8/1/2022
21	20				0	**8/1/2023**	9/1/2020	8/1/2023
22	21				0	**8/1/2022**	9/1/2020	8/1/2022
23	22				0	**8/1/2021**	9/1/2020	8/1/2021
24	23				0	**8/1/2021**	9/1/2020	8/1/2021
25	24				0	**8/1/2021**	9/1/2020	8/1/2021
26	25				1	**ok**	9/1/2020	8/1/2021
27	26				1	**ok**	9/1/2020	8/1/2022
28	27				0	**8/1/2023**	9/1/2020	8/1/2023

	I	J	K	L	M	N	O	P	Q	R	S
1	contract_end	interconnection_queue_position	lse_owned	cam	is_incremental	incremental_explanation	viability_cod_reasonableness	viability_technical_feasibility	viability_resource_sufficiency	viability_financing	storage_max_discharge_mw
2	12/31/2022				0		ok	ok	ok	ok	
3	12/31/2022				0		ok	ok	ok	ok	
4	9/30/2020				0		ok	ok	ok	ok	
5	9/30/2020				0		ok	ok	ok	ok	
6	12/31/2020				0		ok	ok	ok	ok	
7	12/31/2020				0		ok	ok	ok	ok	
8	12/31/2020				0		ok	ok	ok	ok	
9	12/31/2020				0		ok	ok	ok	ok	
10	12/31/2030				0		ok	ok	ok	ok	
11	12/31/2030				0		ok	ok	ok	ok	
12	12/31/2030				1		3	1	2	4	50
13	12/31/2030				1		3	1	2	4	25
14	12/31/2030				1		3	1	2	4	
15	12/31/2030				1		3	1	2	4	7
16	12/31/2030				0		ok	ok	ok	ok	
17	12/31/2030			1	0		ok	ok	ok	ok	
18	12/31/2030				0		ok	ok	ok	ok	
19	12/31/2030				0		ok	ok	ok	ok	
20	8/1/2037	N/A	0	0	1		2	1	2	3	50
21	8/1/2038	N/A	0	0	1		2	1	2	3	75
22	8/1/2032	N/A	0	0	1		1	1	2	3	20
23	8/1/2041	N/A	0	0	1		1	1	2	3	20
24	8/1/2041	N/A	0	0	1		1	1	2	3	20
25	8/1/2036	N/A	0	0	1		1	1	2	3	104
26	7/31/2022	N/A	0	0	1	esource con	1	1	2	2	10
27	8/1/2033	N/A	0	0	1	ed to VSTAE	1	1	2	2	20
28	8/1/2033	N/A	0	0	1		3	1	2	4	17

	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF
1	storage_depth_mwh	is_hybrid	hybrid_generator_mw	hybrid_combined_max_mw	hybrid_can_charge_from_grid	execution_year	execution_month	start_year	start_month	end_year	end_month	**Test: Correct data type for lse_owned**	**Test: Correct data type for cam**
2						2019	10	2020	1	2022	12	1	1
3						2019	3	2020	1	2022	12	1	1
4						2020	6	2020	8	2020	9	1	1
5						2019	6	2020	7	2020	9	1	1
6						2020	4	2020	1	2020	12	1	1
7						2020	6	2020	7	2020	12	1	1
8						2019	1	2020	1	2020	12	1	1
9						2019	9	2020	1	2020	12	1	1
10						2021	1	2021	5	2030	12	1	1
11						2021	1	2021	5	2030	12	1	1
12	200	1	100	150	0	2021	1	2023	1	2030	12	1	1
13	100	1	50	75	0	2024	1	2026	1	2030	12	1	1
14						2022	1	2024	1	2030	12	1	1
15	56	0				2024	1	2026	1	2030	12	1	1
16						2020	10	2021	5	2030	12	1	1
17						2021	1	2021	5	2030	12	1	1
18						2021	1	2021	1	2030	12	1	1
19						2021	1	2021	1	2030	12	1	1
20	100	0	N/A	N/A	N/A	2020	9	2022	8	2037	8	1	1
21	300	0	N/A	N/A	N/A	2020	9	2023	8	2038	8	1	1
22	80	0	N/A	N/A	N/A	2020	9	2022	8	2032	8	1	1
23	80	0	N/A	N/A	N/A	2020	9	2021	8	2041	8	1	1
24	80	0	N/A	N/A	N/A	2020	9	2021	8	2041	8	1	1
25	416	0	N/A	N/A	N/A	2020	9	2021	8	2036	8	1	1
26	40	0	N/A	N/A	N/A	2020	9	2021	8	2022	7	1	1
27	80	0	N/A	N/A	N/A	2020	9	2022	8	2033	8	1	1
28	69	0	N/A	N/A	N/A	2020	9	2023	8	2033	8	1	1

	AG	AH	AI	AJ	AK	AL	AM	AN	AO
1	**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**	**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**
2	1	1						0	#VALUE!
3	1	1						0	#VALUE!
4	1	1						0	#VALUE!
5	1	1						0	#VALUE!
6	1	1						0	#VALUE!
7	1	1						0	#VALUE!
8	1	1						0	#VALUE!
9	1	1						0	#VALUE!
10	1	1						0	#VALUE!
11	1	1						0	#VALUE!
12	1	1						0	#VALUE!
13	1	1						0	#VALUE!
14	1	1						0	#VALUE!
15	1	1						0	#VALUE!
16	1	1						0	#VALUE!
17	1	1						0	#VALUE!
18	1	1						0	#VALUE!
19	1	1						0	#VALUE!
20	1	1						0	#VALUE!
21	1	1						0	#VALUE!
22	1	1						0	#VALUE!
23	1	1						0	#VALUE!
24	1	1						0	#VALUE!
25	1	1						0	#VALUE!
26	1	1						0	#VALUE!
27	1	1						0	#VALUE!
28	1	1						0	#VALUE!

	AP	AQ
1	**find_position_of_mw**	**Incremental MW added to existing resource September 2021**
2	#VALUE!	0
3	#VALUE!	0
4	#VALUE!	0
5	#VALUE!	0
6	#VALUE!	0
7	#VALUE!	0
8	#VALUE!	0
9	#VALUE!	0
10	#VALUE!	0
11	#VALUE!	0
12	#VALUE!	0
13	#VALUE!	0
14	#VALUE!	0
15	#VALUE!	0
16	#VALUE!	0
17	#VALUE!	0
18	#VALUE!	0
19	#VALUE!	0
20	#VALUE!	0
21	#VALUE!	0
22	#VALUE!	0
23	#VALUE!	0
24	#VALUE!	0
25	#VALUE!	0
26	#VALUE!	0
27	3	0
28	#VALUE!	0