46	<--- Select your MMT here using the dropdown.	38	MMT Portfolio
	Do not change other cells in this tab.	46	MMT Portfolio

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%**	

Table developed using weather normalized 2019 net peak demand values for each BA area. Inlcudes the impact of IOU load-modifying demand response programs.

Agency peak demand within a BA area is adjusted to be coincident with the respective BA area net peak demand total.

Please input your LSE's 2021 System RA allocation, NQC MW here. This will be kept confidential. [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	#VALUE!											
Your LSE's estimated system RA requirement, NQC MW		#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!

Test #VALUE!

loc	resource	cpac_contract_id	Year	Month	contract_gwh	contracted_nqc_mw_if_known	nqc_fraction_if_nqc_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_nqc_mw_for_resources_with_no_contracted_nqc	final_nqc_mw	test_nqc	supertype	LSE is buying energy from resource	LSE is buying capacity from resource	resource_contract_note	is_first_occurrence	create_unique_contract_index	Test: Correct data type for resource	Test: Correct data type for Year	Test: Correct data type for Month	TEST: No blanks in energy and capacity data	TEST: No missing data	Test: Correct data type for max_mw	TEST: NQC provided only once	TEST: Working ELCC type
MSCPA	New_Hybrid	energy_PP005201	2021	7	24			development	4			CAISO_Hybrid	0	unknown	unknown_2021_7	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	1	1	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2021	8	22			development	4			CAISO_Hybrid	0	unknown	unknown_2021_8	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2021	9	18			development	4			CAISO_Hybrid	0	unknown	unknown_2021_9	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2021	10	15			development	4			CAISO_Hybrid	0	unknown	unknown_2021_10	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2021	11	10			development	4			CAISO_Hybrid	0	unknown	unknown_2021_11	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2021	12	7			development	4			CAISO_Hybrid	0	unknown	unknown_2021_12	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2022	1	7			development	4			CAISO_Hybrid	0	unknown	unknown_2022_1	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2022	2	10			development	4			CAISO_Hybrid	0	unknown	unknown_2022_2	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2022	3	16			development	4			CAISO_Hybrid	0	unknown	unknown_2022_3	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2022	4	20			development	4			CAISO_Hybrid	0	unknown	unknown_2022_4	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2022	5	22			development	4			CAISO_Hybrid	0	unknown	unknown_2022_5	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2022	6	23			development	4			CAISO_Hybrid	0	unknown	unknown_2022_6	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2022	7	24			development	4			CAISO_Hybrid	0	unknown	unknown_2022_7	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2022	8	22			development	4			CAISO_Hybrid	0	unknown	unknown_2022_8	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2022	9	18			development	4			CAISO_Hybrid	0	unknown	unknown_2022_9	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2022	10	15			development	4			CAISO_Hybrid	0	unknown	unknown_2022_10	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2022	11	9			development	4			CAISO_Hybrid	0	unknown	unknown_2022_11	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2022	12	7			development	4			CAISO_Hybrid	0	unknown	unknown_2022_12	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2023	1	8			development	4			CAISO_Hybrid	0	unknown	unknown_2023_1	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2023	2	11			development	4			CAISO_Hybrid	0	unknown	unknown_2023_2	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2023	3	15			development	4			CAISO_Hybrid	0	unknown	unknown_2023_3	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2023	4	19			development	4			CAISO_Hybrid	0	unknown	unknown_2023_4	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2023	5	23			development	4			CAISO_Hybrid	0	unknown	unknown_2023_5	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2023	6	24			development	4			CAISO_Hybrid	0	unknown	unknown_2023_6	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2023	7	24			development	4			CAISO_Hybrid	0	unknown	unknown_2023_7	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2023	8	22			development	4			CAISO_Hybrid	0	unknown	unknown_2023_8	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2023	9	19			development	4			CAISO_Hybrid	0	unknown	unknown_2023_9	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2023	10	16			development	4			CAISO_Hybrid	0	unknown	unknown_2023_10	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2023	11	10			development	4			CAISO_Hybrid	0	unknown	unknown_2023_11	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2023	12	8			development	4			CAISO_Hybrid	0	unknown	unknown_2023_12	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2024	1	8			development	4			CAISO_Hybrid	0	unknown	unknown_2024_1	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2024	2	11			development	4			CAISO_Hybrid	0	unknown	unknown_2024_2	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
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MSCPA	New_Hybrid	energy_PP005201	2024	4	19			development	4			CAISO_Hybrid	0	unknown	unknown_2024_4	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2024	5	23			development	4			CAISO_Hybrid	0	unknown	unknown_2024_5	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2024	6	23			development	4			CAISO_Hybrid	0	unknown	unknown_2024_6	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2024	7	23			development	4			CAISO_Hybrid	0	unknown	unknown_2024_7	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2024	8	22			development	4			CAISO_Hybrid	0	unknown	unknown_2024_8	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
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MSCPA	New_Hybrid	energy_PP005201	2024	10	16			development	4			CAISO_Hybrid	0	unknown	unknown_2024_10	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
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MSCPA	New_Hybrid	energy_PP005201	2025	4	18			development	4			CAISO_Hybrid	0	unknown	unknown_2025_4	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
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MSCPA	New_Hybrid	energy_PP005201	2025	6	23			development	4			CAISO_Hybrid	0	unknown	unknown_2025_6	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2025	7	23			development	4			CAISO_Hybrid	0	unknown	unknown_2025_7	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2025	8	22			development	4			CAISO_Hybrid	0	unknown	unknown_2025_8	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2025	9	19			development	4			CAISO_Hybrid	0	unknown	unknown_2025_9	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2025	10	15			development	4			CAISO_Hybrid	0	unknown	unknown_2025_10	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
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MSCPA	New_Hybrid	energy_PP005201	2025	12	6			development	4			CAISO_Hybrid	0	unknown	unknown_2025_12	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2026	1	7			development	4			CAISO_Hybrid	0	unknown	unknown_2026_1	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2026	2	11			development	4			CAISO_Hybrid	0	unknown	unknown_2026_2	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2026	3	18			development	4			CAISO_Hybrid	0	unknown	unknown_2026_3	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2026	4	18			development	4			CAISO_Hybrid	0	unknown	unknown_2026_4	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2026	5	22			development	4			CAISO_Hybrid	0	unknown	unknown_2026_5	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2026	6	23			development	4			CAISO_Hybrid	0	unknown	unknown_2026_6	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2026	7	23			development	4			CAISO_Hybrid	0	unknown	unknown_2026_7	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
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MSCPA	New_Hybrid	energy_PP005201	2026	9	19			development	4			CAISO_Hybrid	0	unknown	unknown_2026_9	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2026	10	16			development	4			CAISO_Hybrid	0	unknown	unknown_2026_10	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
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MSCPA	New_Hybrid	energy_PP005201	2027	1	7			development	4			CAISO_Hybrid	0	unknown	unknown_2027_1	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
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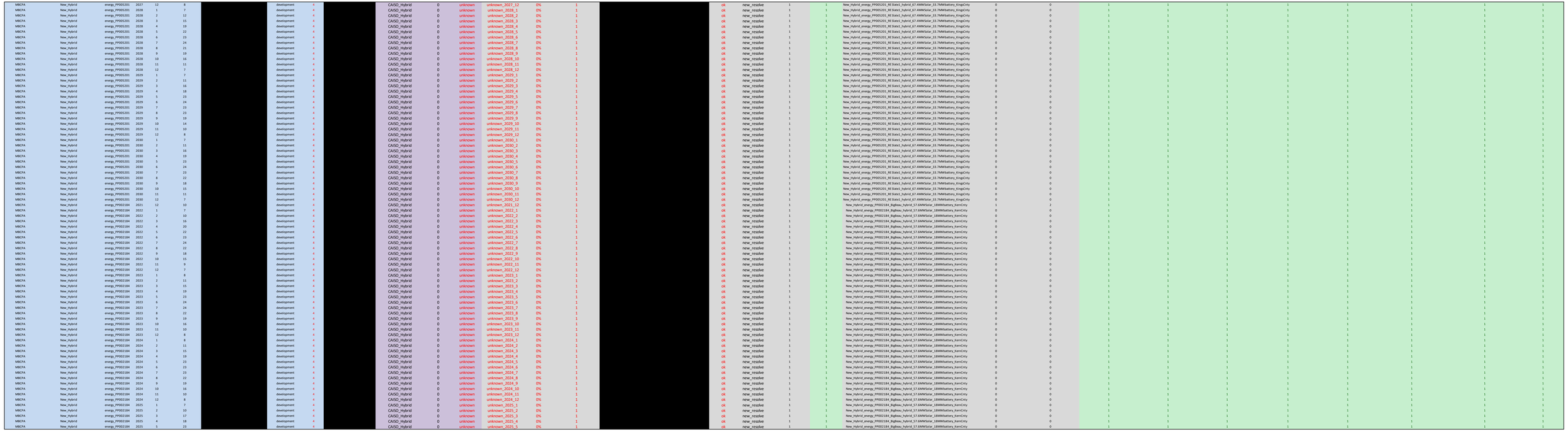
MSCPA	New_Hybrid	energy_PP005201	2027	4	18			development	4			CAISO_Hybrid	0	unknown	unknown_2027_4	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2027	5	22			development	4			CAISO_Hybrid	0	unknown	unknown_2027_5	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2027	6	23			development	4			CAISO_Hybrid	0	unknown	unknown_2027_6	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2027	7	23			development	4			CAISO_Hybrid	0	unknown	unknown_2027_7	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2027	8	22			development	4			CAISO_Hybrid	0	unknown	unknown_2027_8	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2027	9	18			development	4			CAISO_Hybrid	0	unknown	unknown_2027_9	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2027	10	16			development	4			CAISO_Hybrid	0	unknown	unknown_2027_10	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1
MSCPA	New_Hybrid	energy_PP005201	2027	11	10			development	4			CAISO_Hybrid	0	unknown	unknown_2027_11	0%	1			ok	new_resolve	1	1	New_Hybrid_energy_PP005201_RE Slate1_hybrid_67.4MWSolar_33.7MWbattery_KingCnty	0	0	1	1	1	1	1	1	1	1



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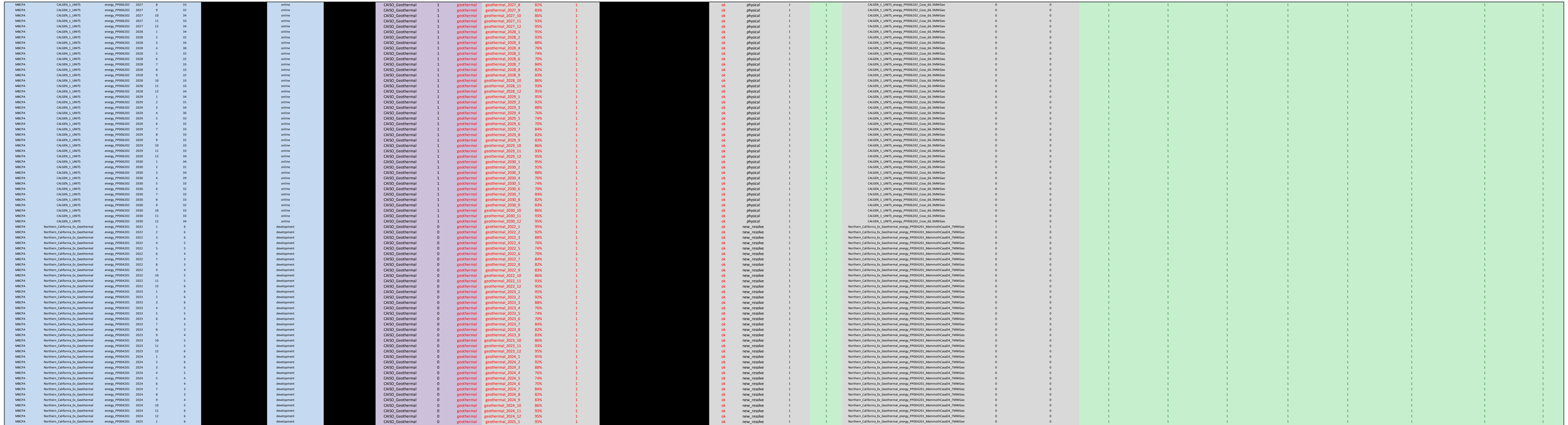

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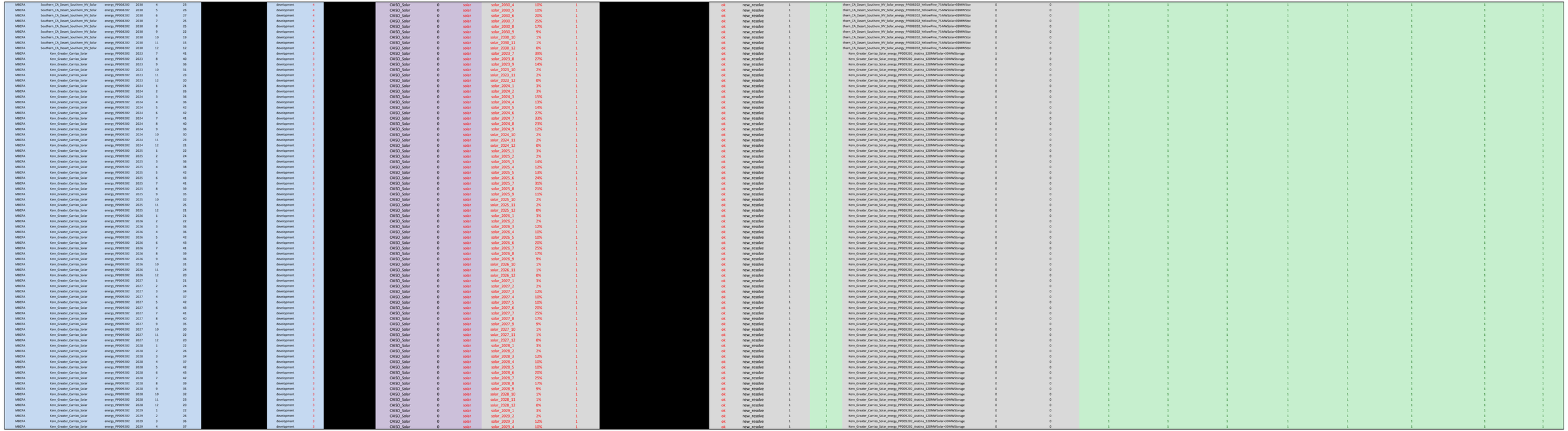

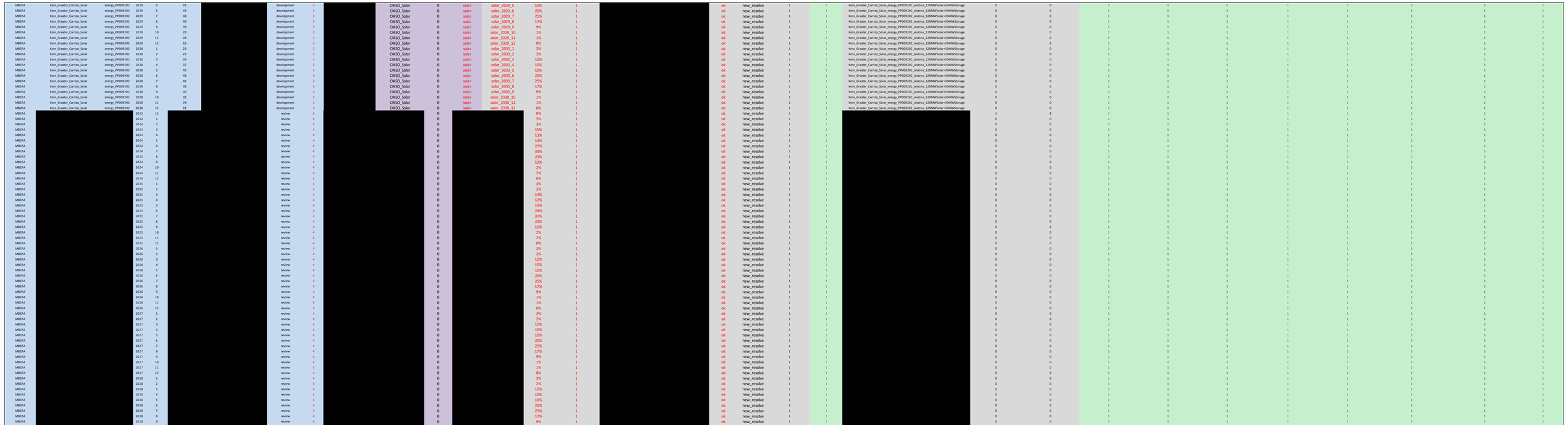

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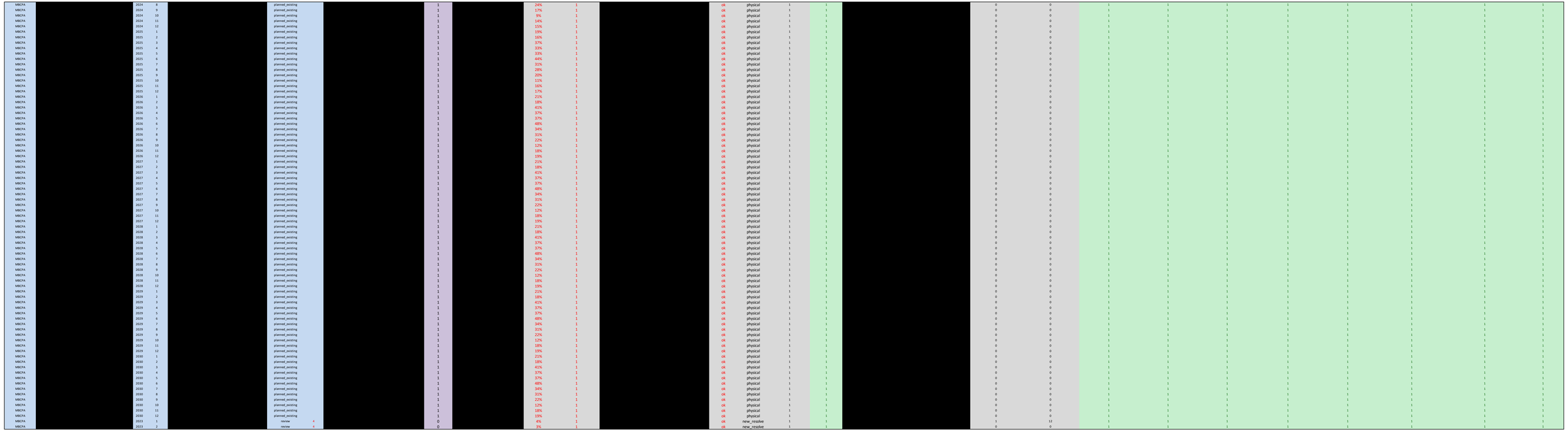

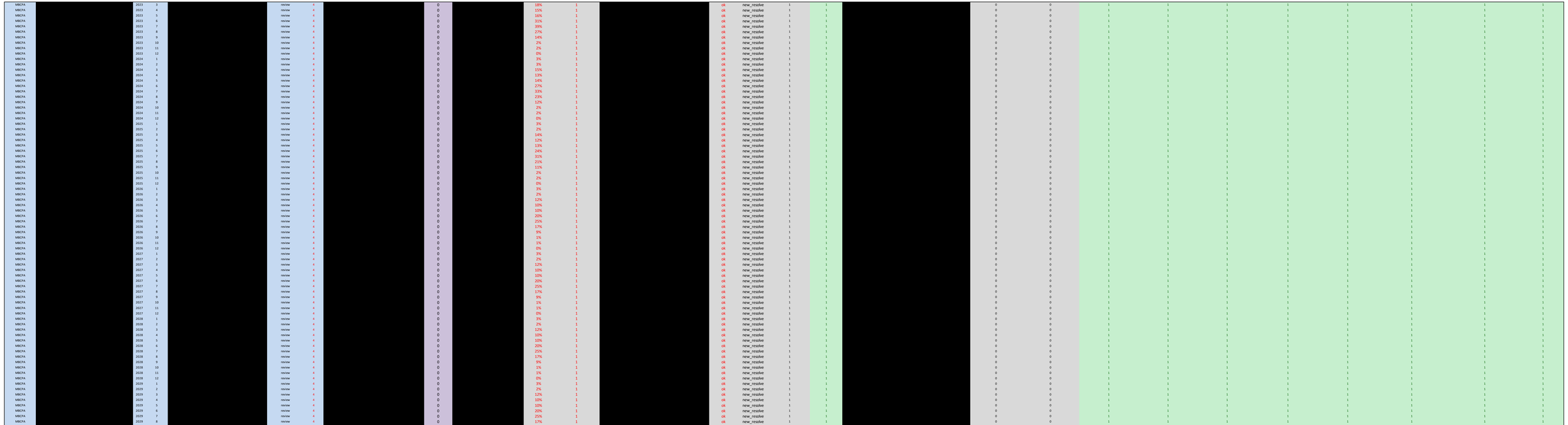

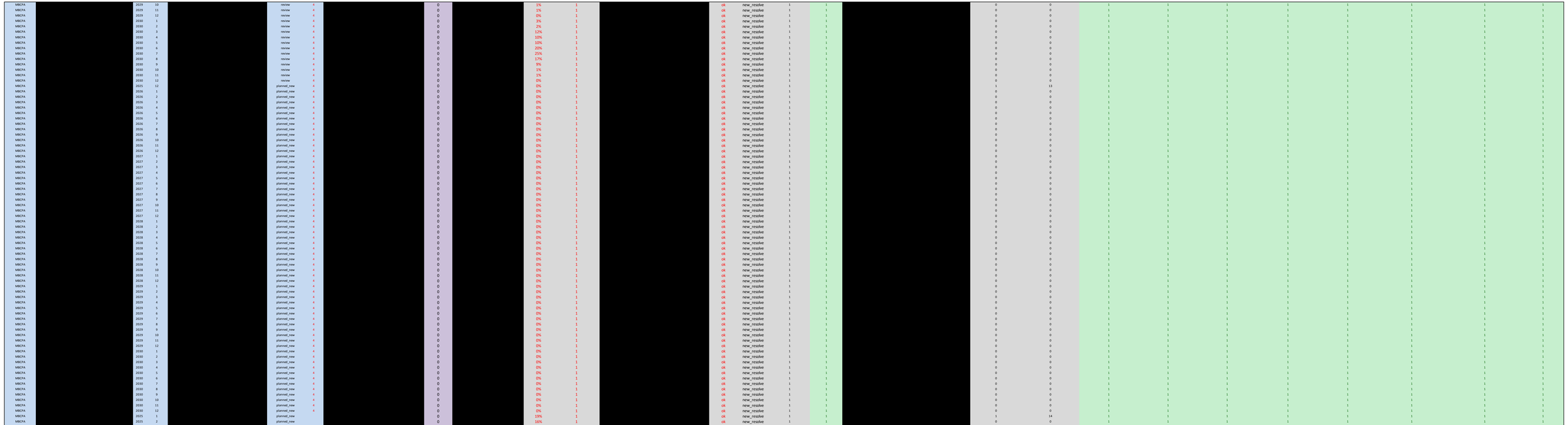

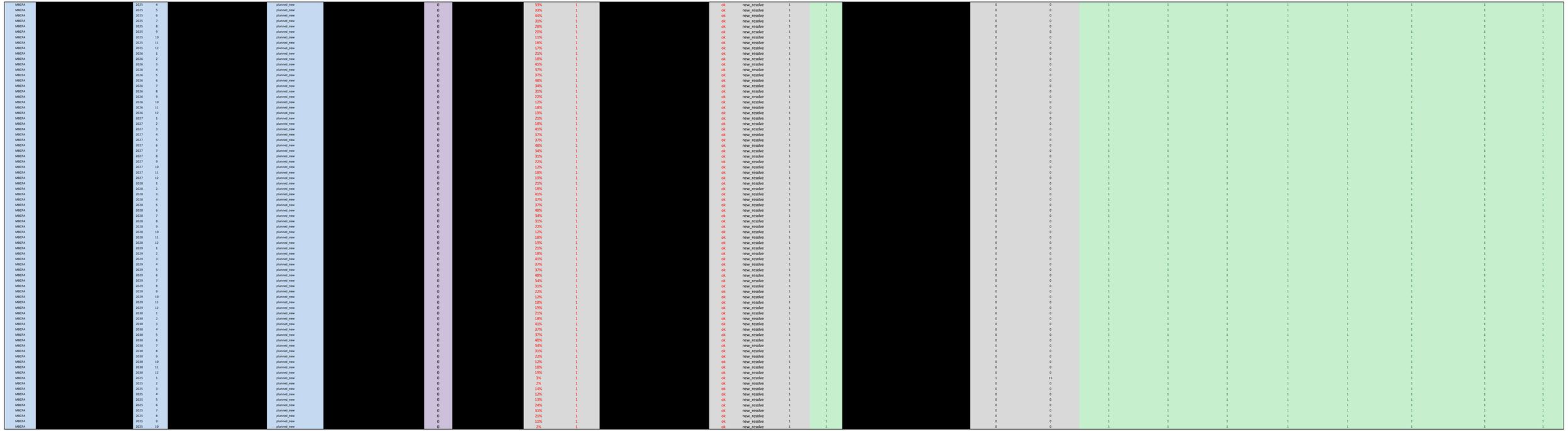

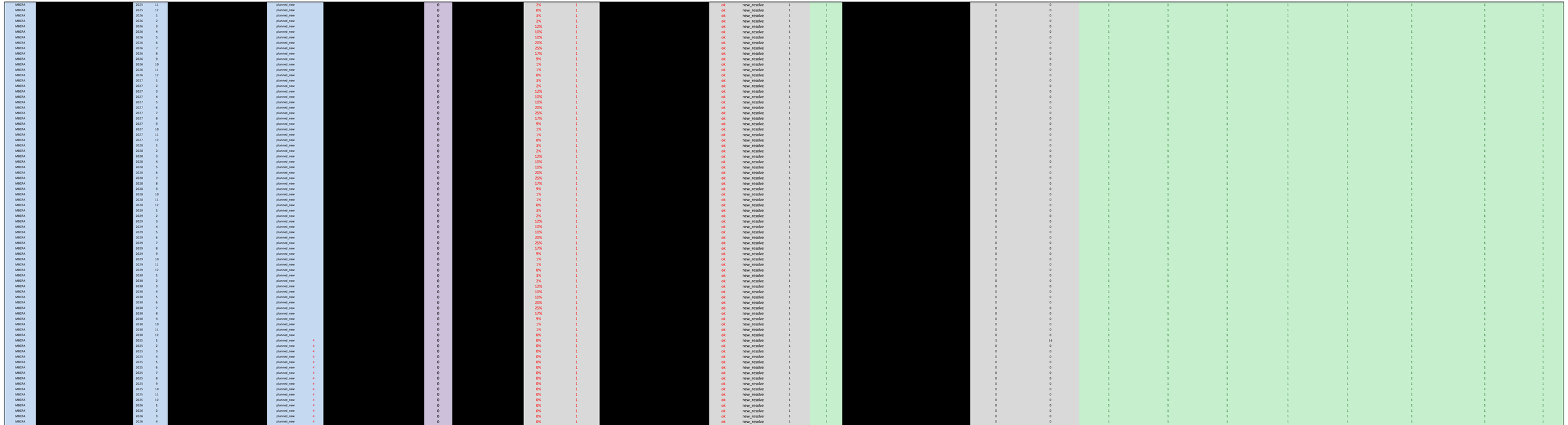

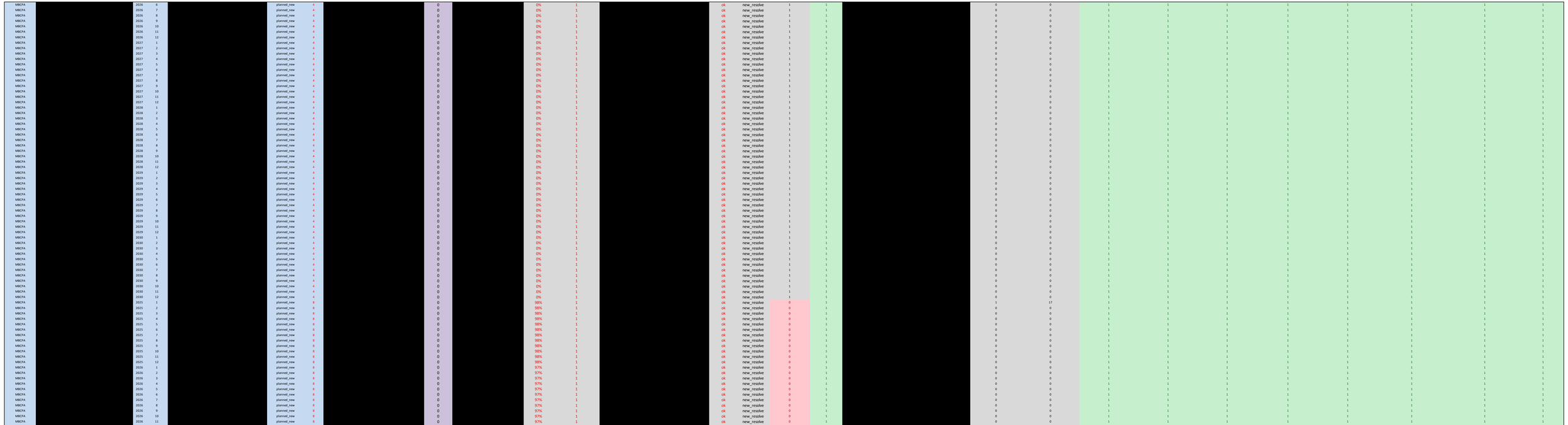

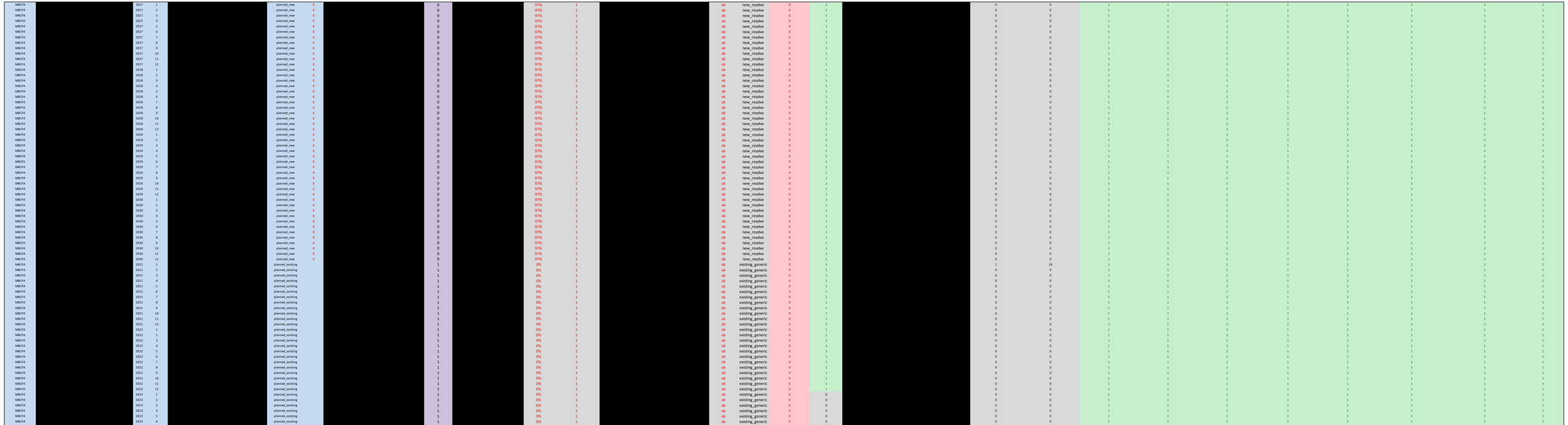

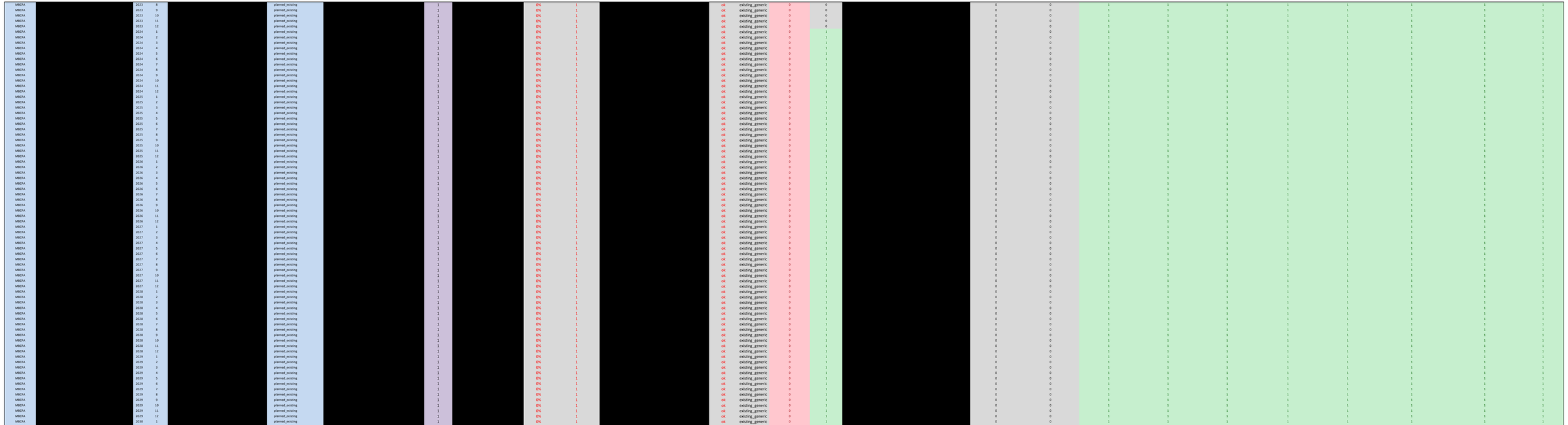

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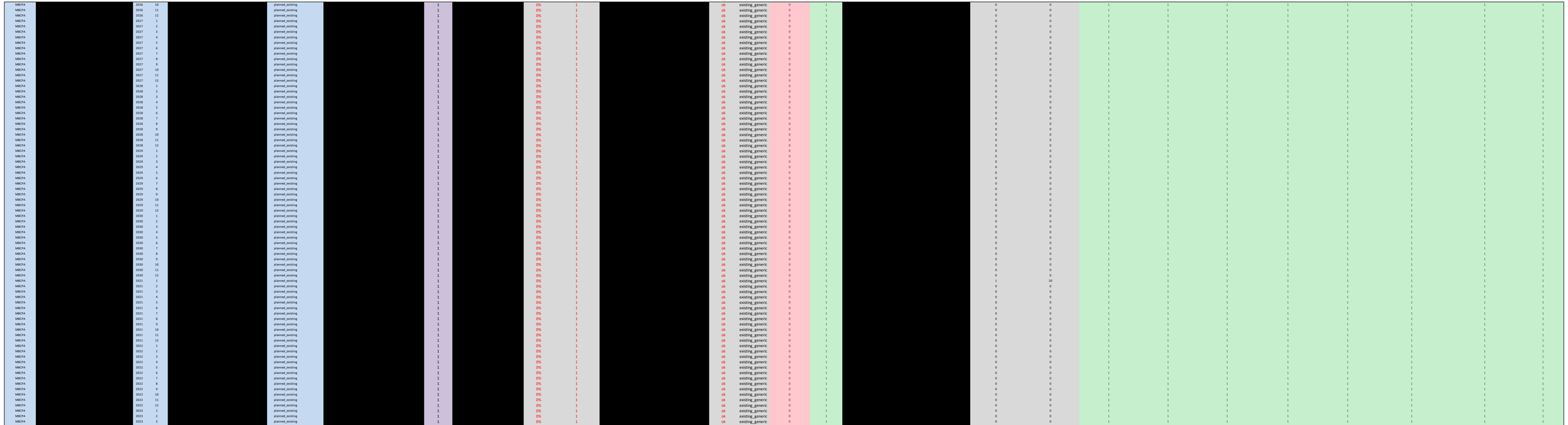

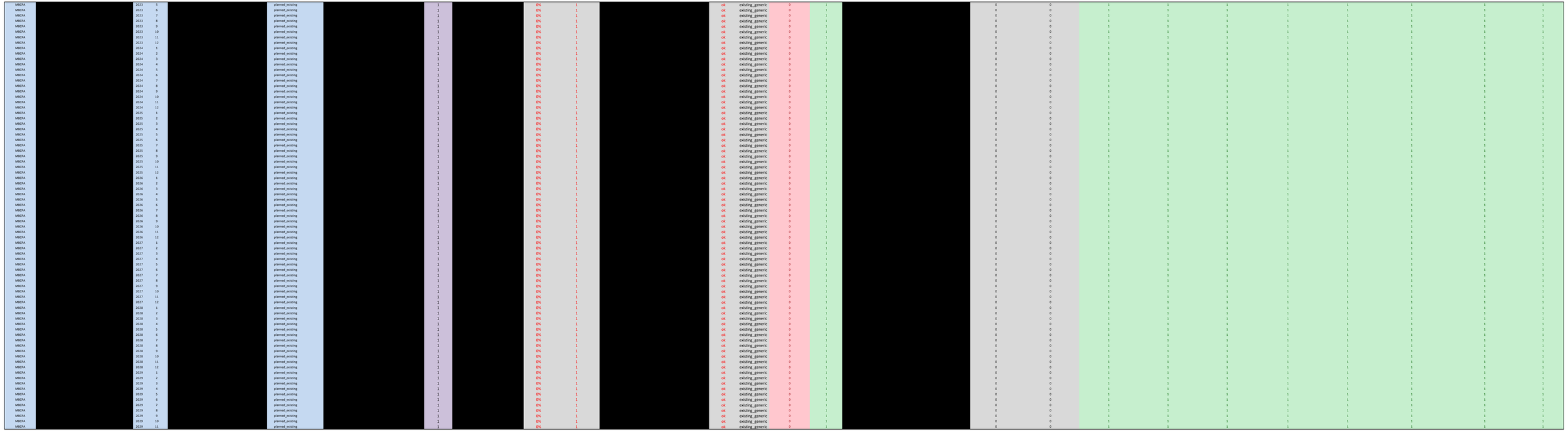

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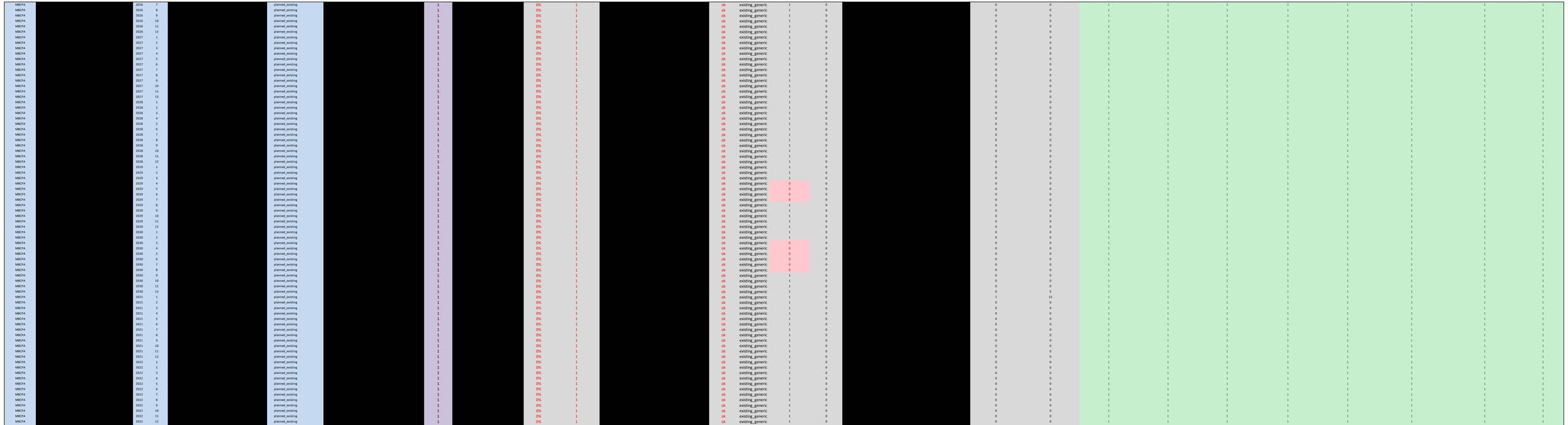

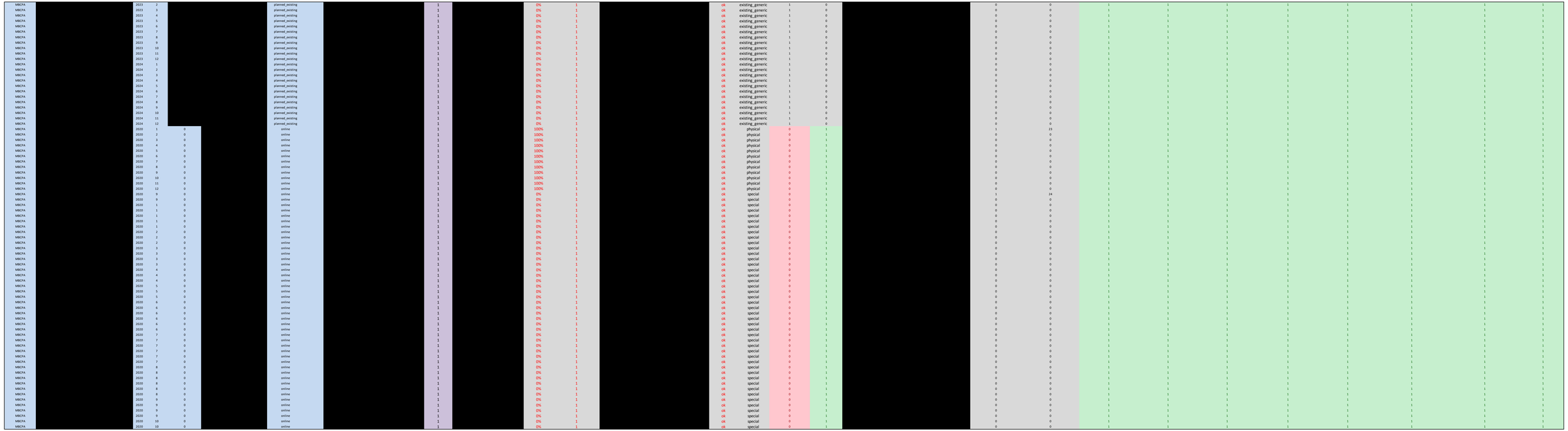

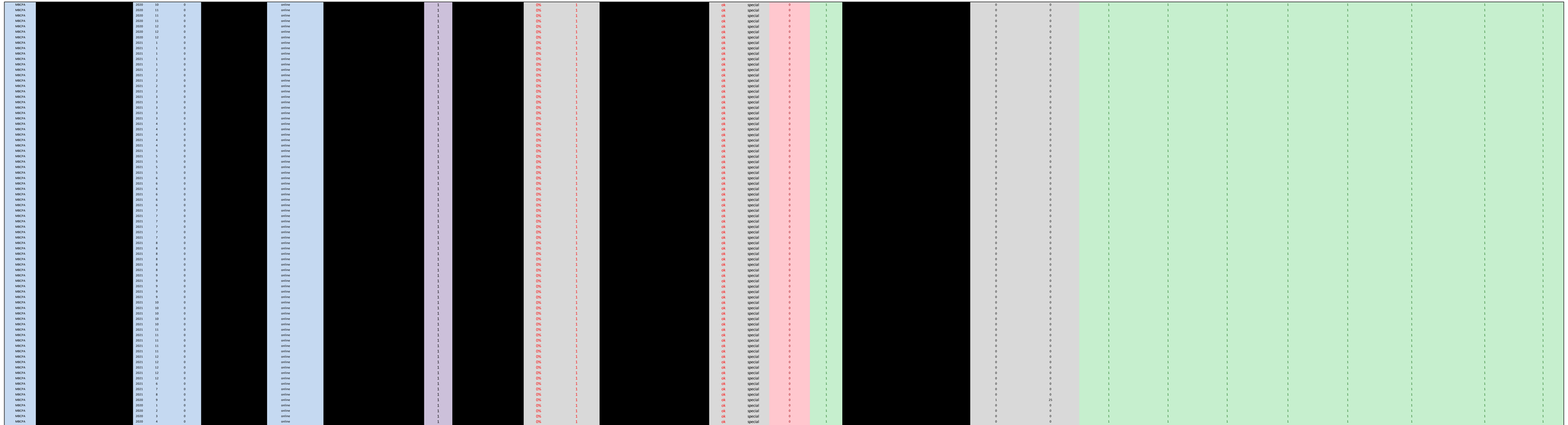

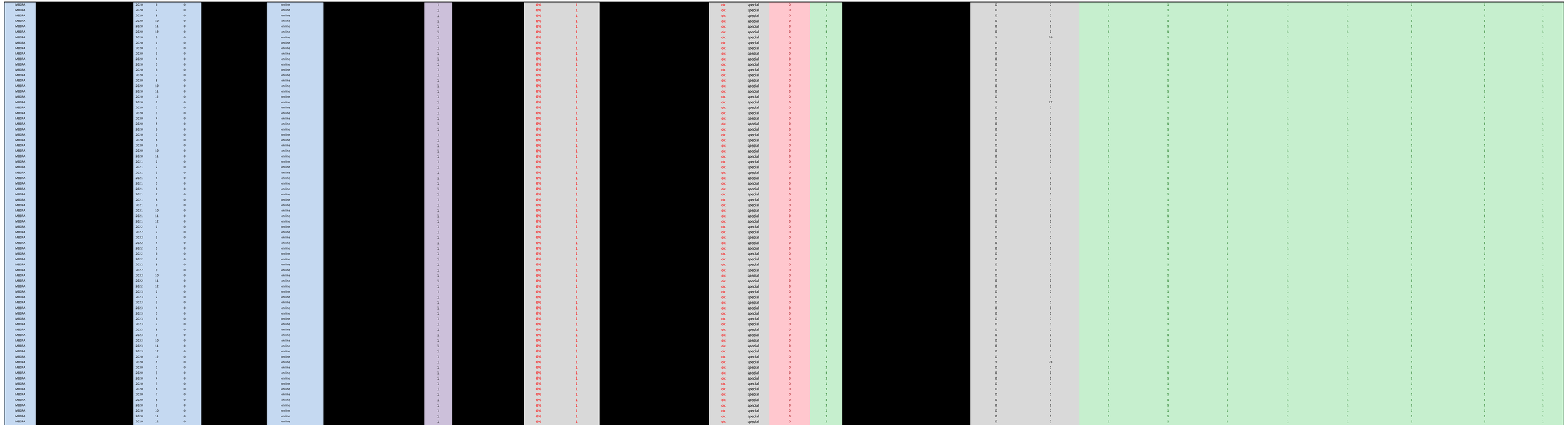

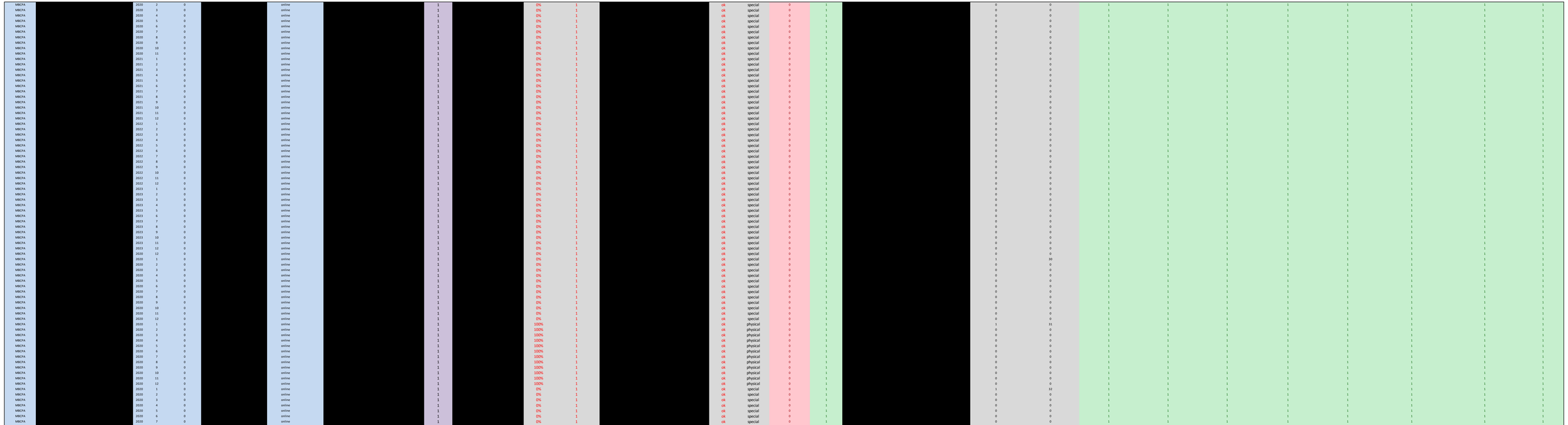

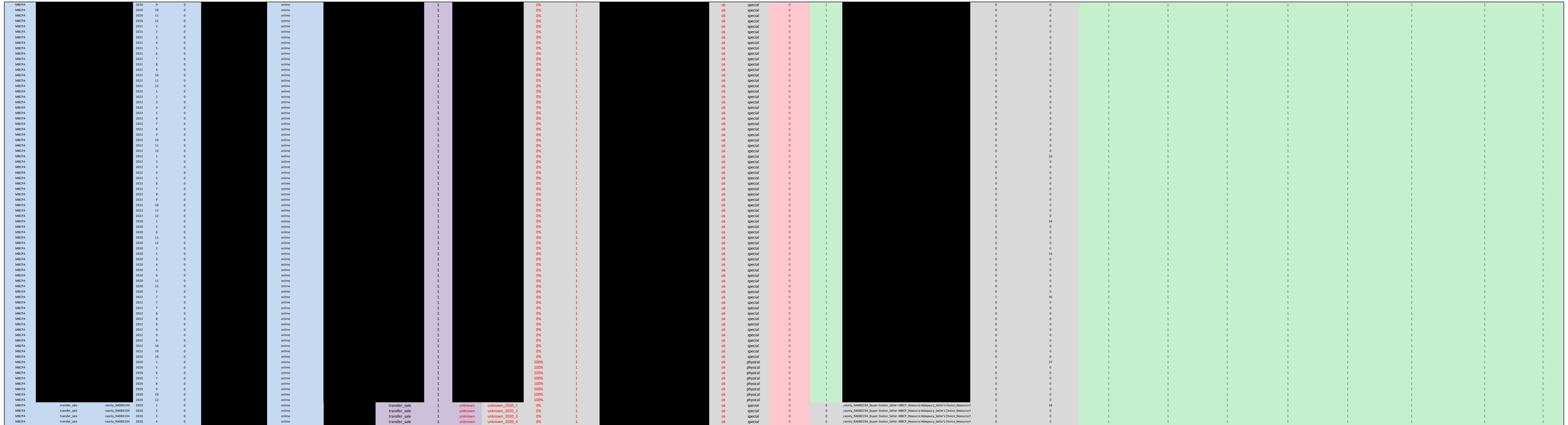

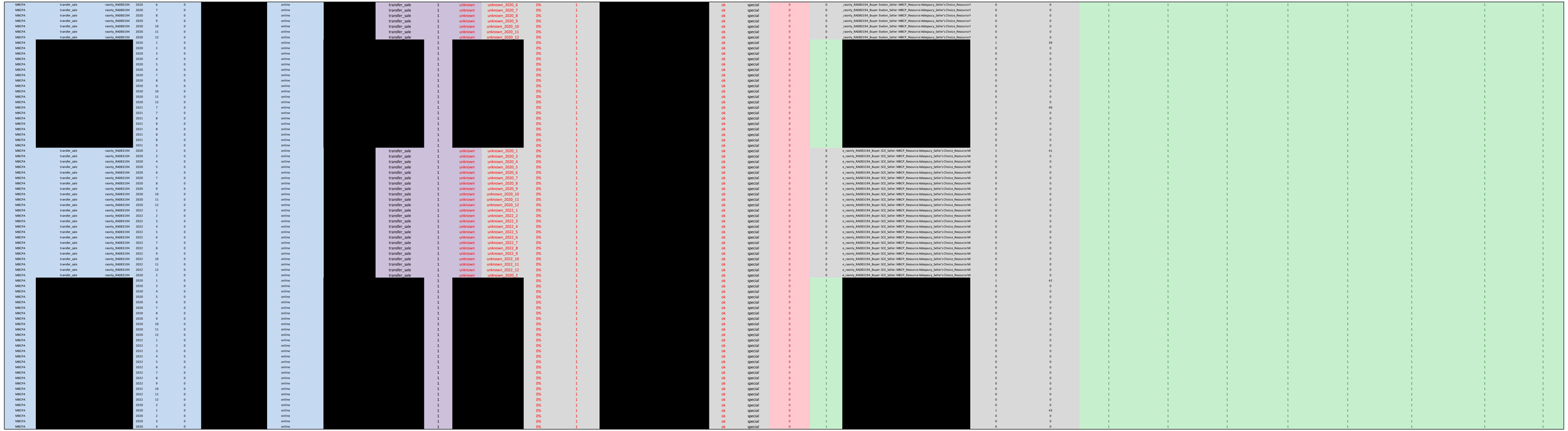

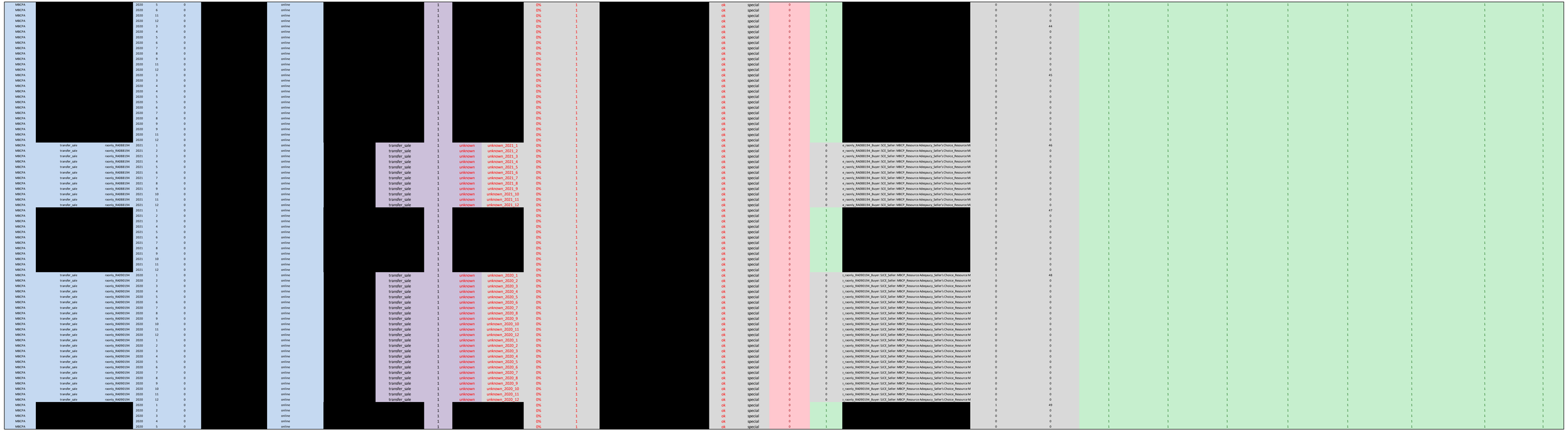

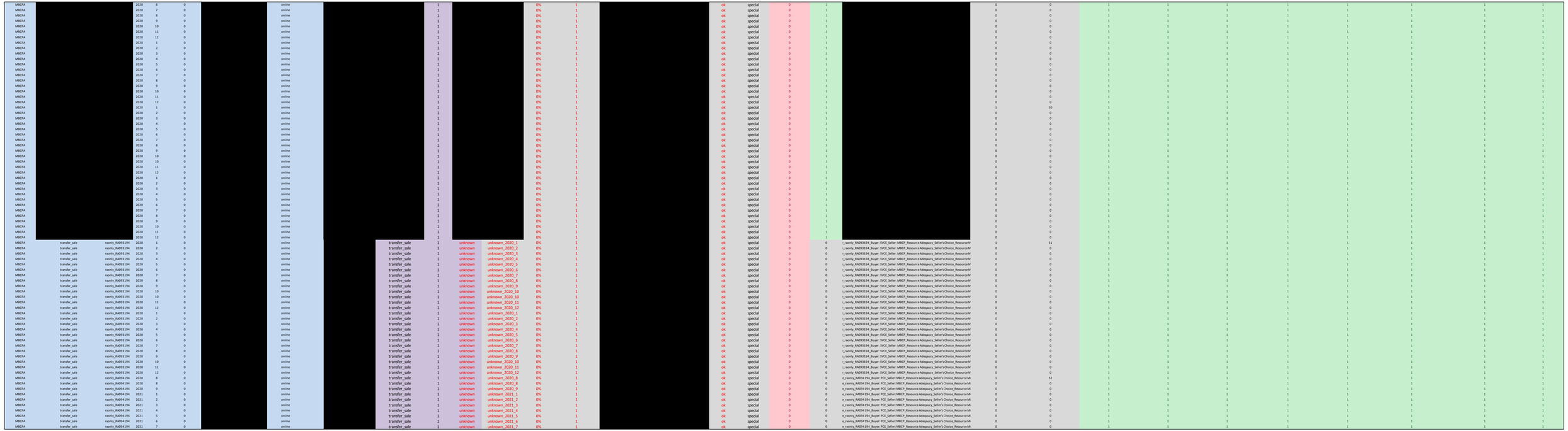

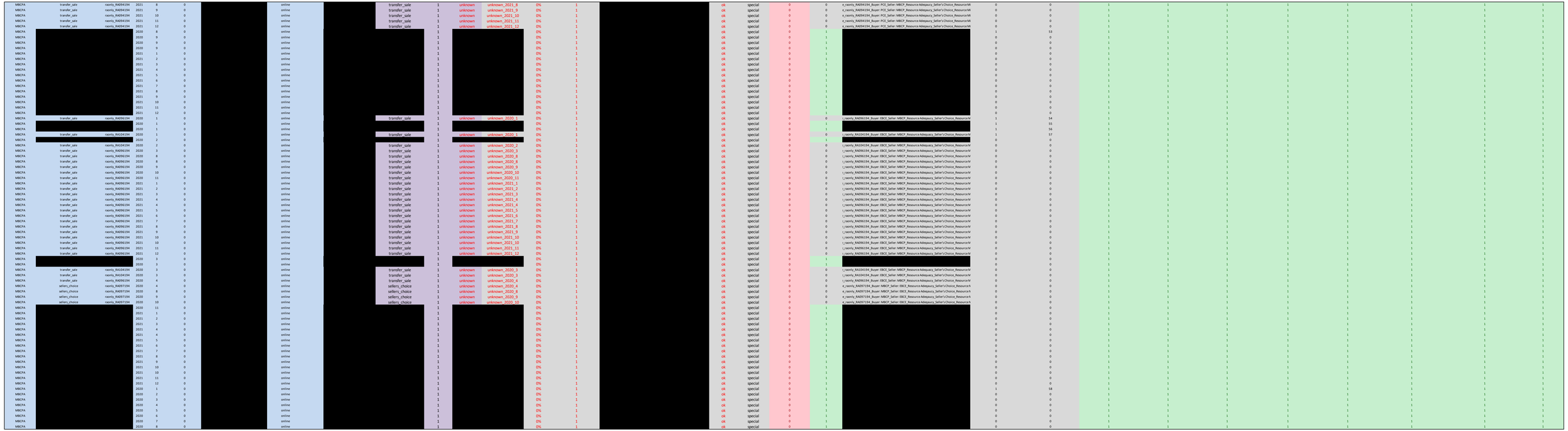

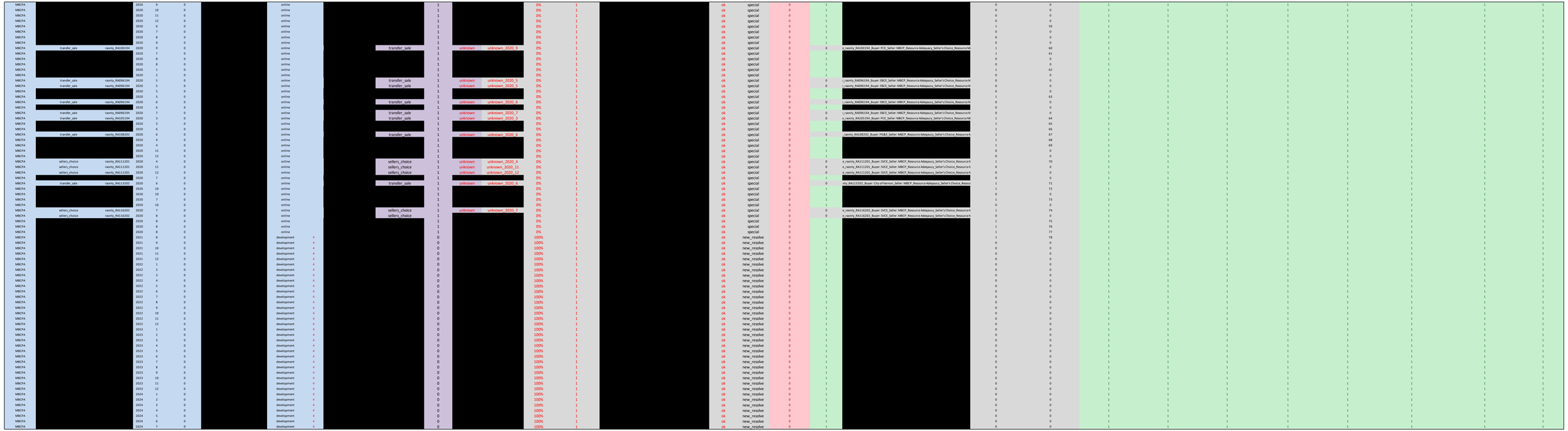

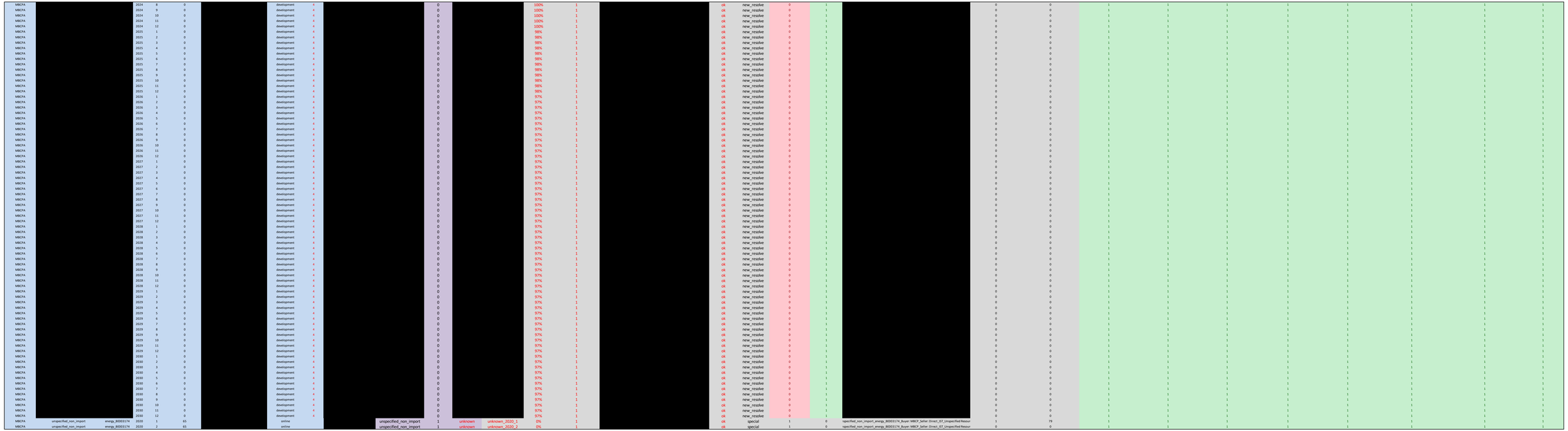

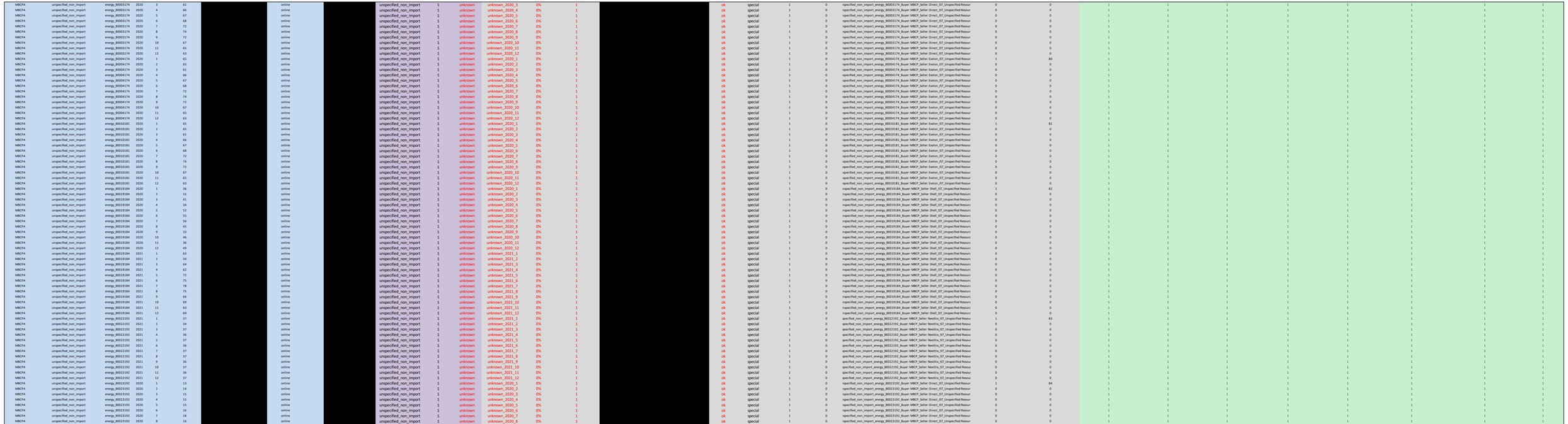

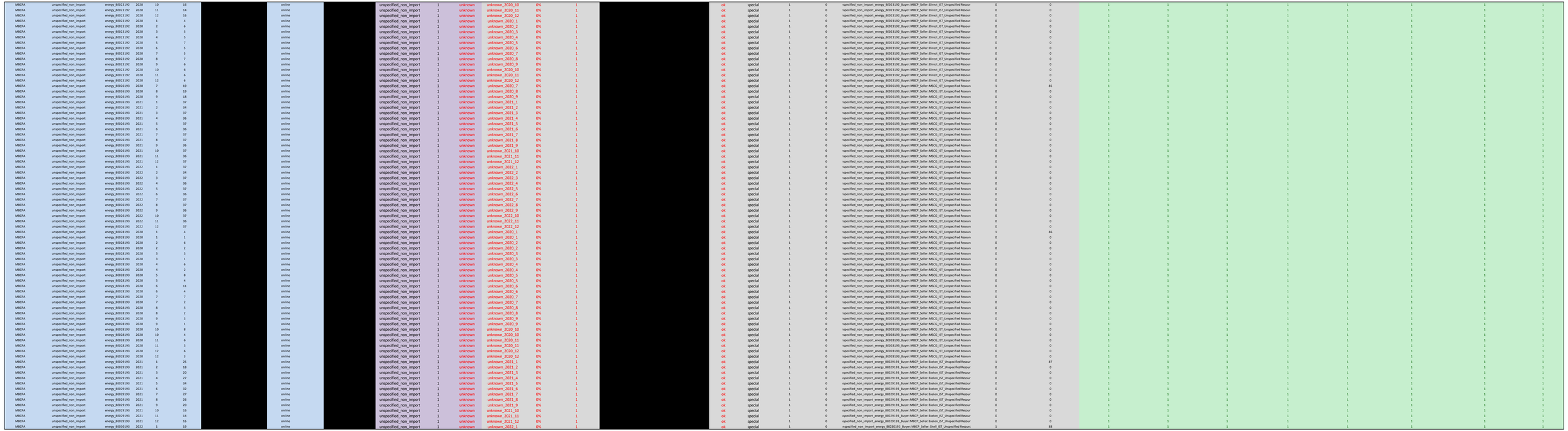

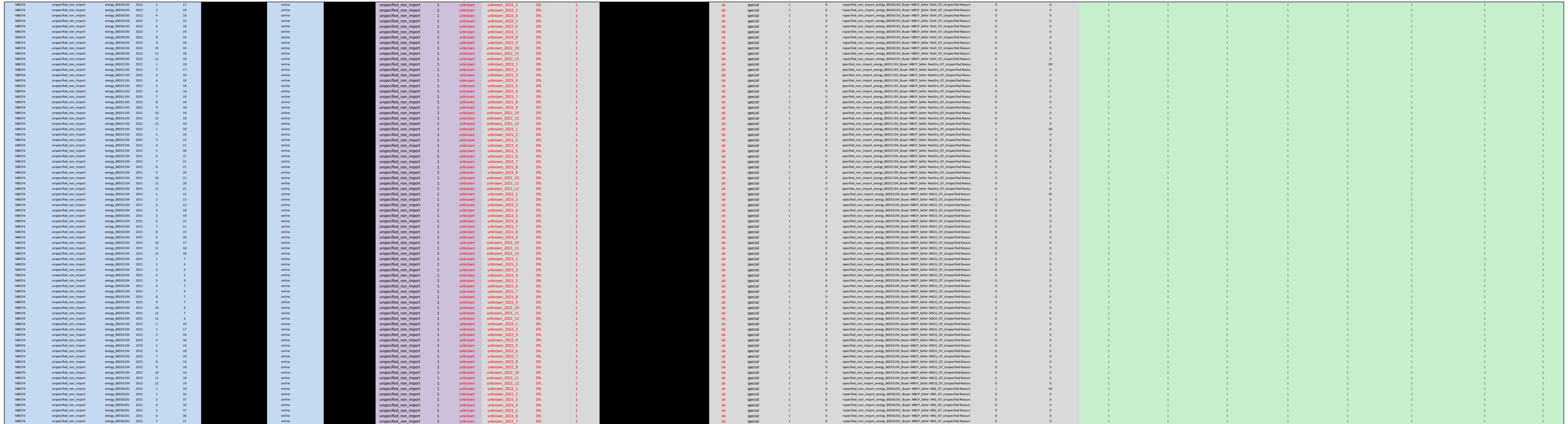

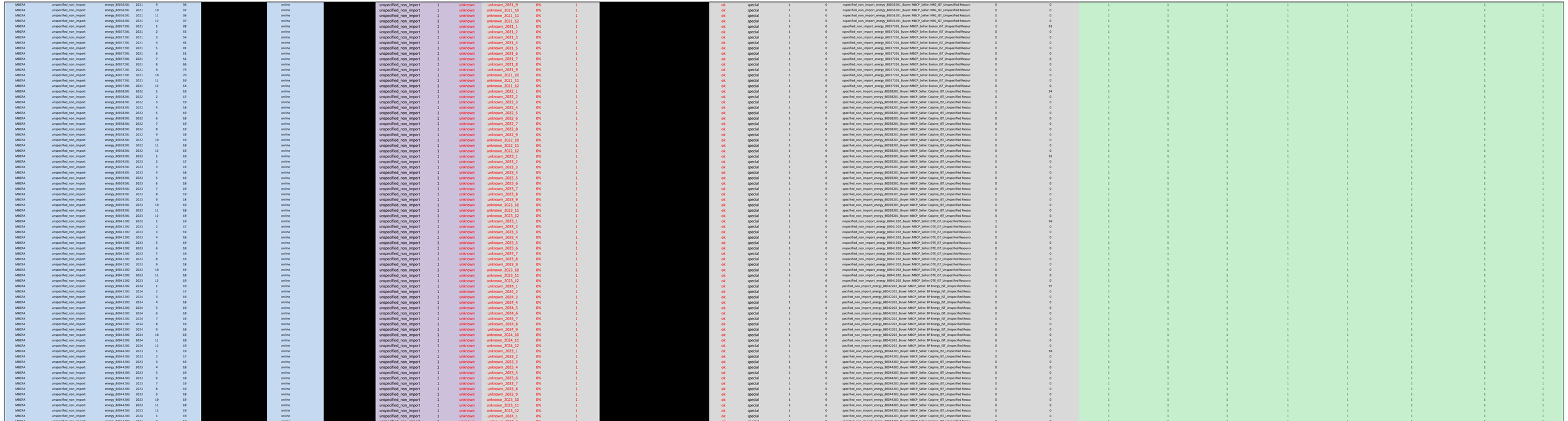

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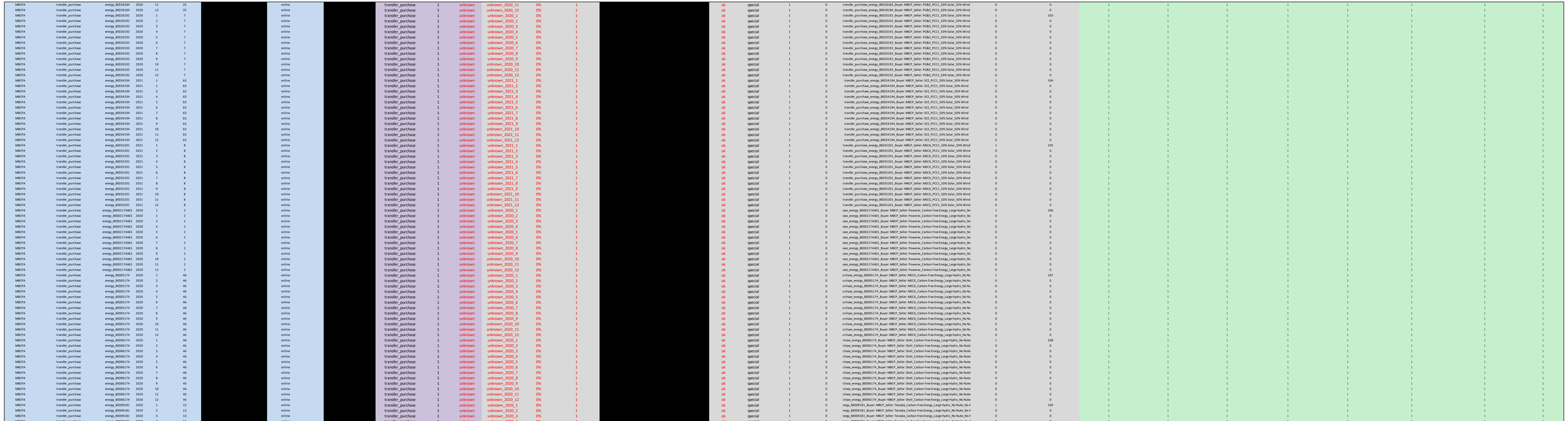

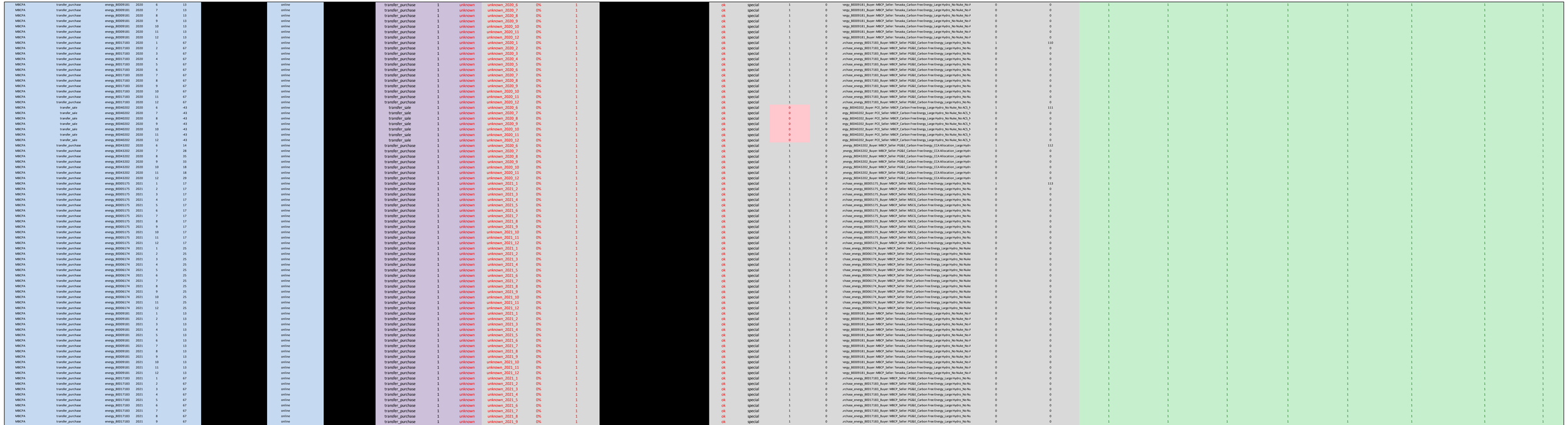

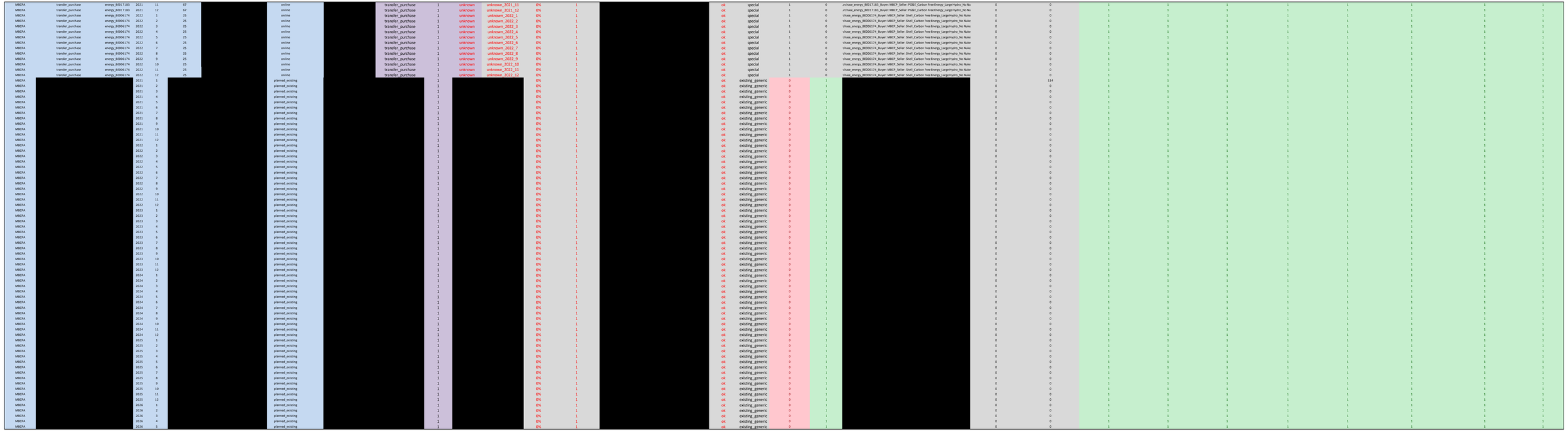

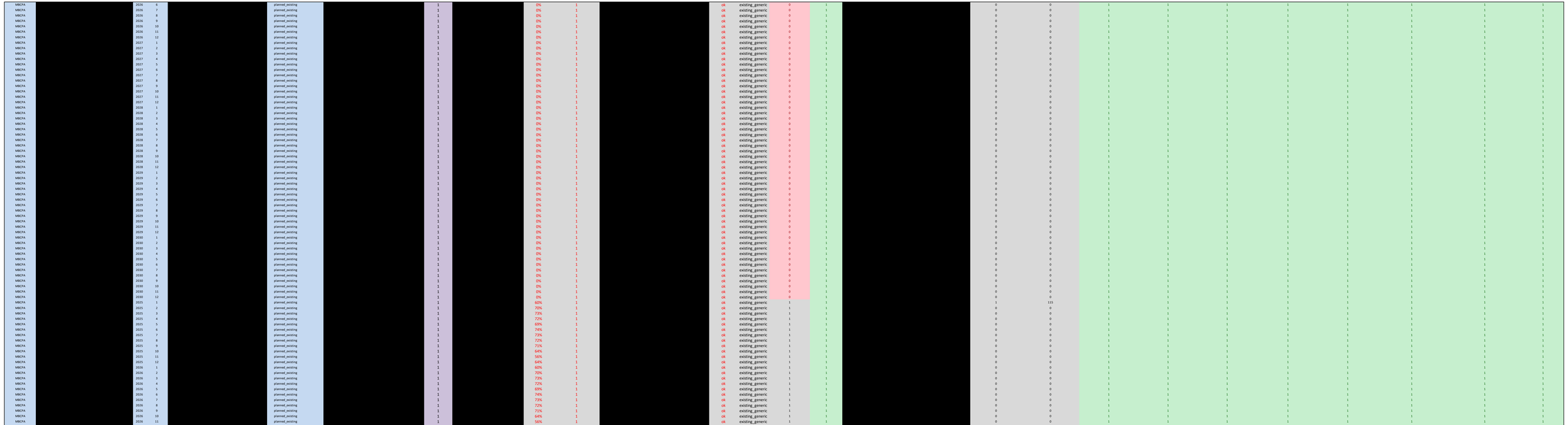

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resource_num	resource	note	online_date_for_new_resources	contract_execution_date	contract_start	contract_end	interconnection_queue_position	tac_owned	cam	in_current_dispatch	incremental_resource_mw	viability_cod_reasonableness	viability_technical_feasibility	viability_resource_sufficiency	viability_financing	storage_mw_discharge_mw	storage_depth_mwh	is_hybrid	hybrid_generator_mw	hybrid_combined_mw_max	hybrid_can_charge_from_grid	evaluation_year	evaluation_month	start_year	start_month	end_year	end_month	Test: Correct data type for tac_owned	Test: Correct data type for cam	Test:All data provided for hybrid	TEST: All data provided for contract	TEST: No fillnans	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 net-in RPM demand forecast in September 2021	first_position_of_adding	first_position_of_mw	Incremental MW added to existing resource September 2021	2021	9
1			6/30/21	3/24/20	6/26/21	6/29/38	1108	0	0	1		1	1	2	3	34	135	1	68	102	0	2020	2	2021	6	2038	9	1	1	1	1	1						#VALUE!	#VALUE!	0			
2			12/1/21	10/25/18	12/1/21	11/30/41	1229	0	0	1		1	1	2	3	18	72	1	18	76	0	2018	10	2021	12	2041	11	1	1	1	1	1						#VALUE!	#VALUE!	0			
3			6/1/22	4/8/20	6/1/22	5/31/37	1215	0	0	1		1	1	2	5	12	30	1	60	72	0	2020	4	2022	6	2037	5	1	1	1	1	1						#VALUE!	#VALUE!	0			
4			nk	4/8/20	1/1/22	12/31/36	N/A	0	0	1		ok	ok	ok	ok							2020	4	2022	1	2036	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
5			12/31/21	1/8/20	11/15/21	11/30/51	355	0	0	1		1	1	2	3	0	0	0				2020	1	2021	12	2051	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
6			12/31/22	5/4/20	11/15/22	11/30/42	1341	0	0	1		1	1	2	4	39	156	1	75	114	0	2020	5	2022	12	2042	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
7			6/30/23	6/11/20	6/30/23	6/29/43	1604	0	0	1		1	1	2	4	30	90	1	120	150	0	2020	6	2023	6	2043	6	1	1	1	1	1						#VALUE!	#VALUE!	0			
8			12/1/23	12/15/20	11/15/23	11/30/43	1215	0	0	1		1	1	2	4	23	90	1	75	98	0	2020	12	2023	12	2043	11	1	1	1	1	1						#VALUE!	#VALUE!	0			
9			ok	12/31/20	11/15/22	11/15/37	N/A	0	0	0		ok	ok	ok	ok							2020	12	2022	12	2037	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
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11			ok	12/31/20	11/15/22	11/15/37	N/A	0	0	0		ok	ok	ok	ok							2020	12	2022	12	2037	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
12			12/1/22	12/31/20	12/1/22	11/30/42	N/A	0	0	1		1	1	2	4	23	91	1	91	114	0	2020	12	2022	12	2042	11	1	1	1	1	1						#VALUE!	#VALUE!	0			
13			12/1/20	12/31/20	12/1/20	11/30/40	N/A	0	0	1		1	1	2	4	44	175	1	225	293	0	2020	12	2020	12	2040	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
14			12/31/24	12/31/22	12/31/24	12/31/39	N/A	0	0	1		1	1	2	4	0	0	0				2022	12	2024	12	2039	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
15			12/31/24	12/31/22	12/31/24	12/31/39	N/A	0	0	1		1	1	2	4	0	0	0				2022	12	2024	12	2039	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
16			12/31/24	12/31/22	12/31/24	12/31/39	N/A	0	0	1		1	1	2	4	90	360	1	360	450	0	2022	12	2024	12	2039	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
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18			12/31/24	3/8/18	1/1/19	11/31/20	N/A	0	0	0		ok	ok	ok	ok							2018	3	2019	1	2020	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
19			ok	4/30/18	11/1/19	11/31/20	N/A	0	0	0		ok	ok	ok	ok							2018	4	2019	1	2021	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
20			ok	10/31/20	1/1/21	11/31/50	N/A	0	0	0		ok	ok	ok	ok							2020	10	2021	1	2050	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
21			ok	4/30/18	11/1/19	11/31/20	N/A	0	0	0		ok	ok	ok	ok							2018	4	2019	1	2020	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
22			ok	10/1/20	1/1/21	11/31/24	N/A	0	0	0		ok	ok	ok	ok							2020	10	2021	1	2024	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
23			ok	4/30/18	11/1/19	11/31/20	N/A	0	0	0		ok	ok	ok	ok							2018	4	2019	1	2020	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
24			ok	5/5/18	1/1/19	11/31/23	N/A	0	0	0		ok	ok	ok	ok							2018	5	2019	1	2023	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
25			ok	5/5/18	1/1/19	11/31/23	N/A	0	0	0		ok	ok	ok	ok							2018	5	2019	1	2023	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
26			ok	5/5/18	1/1/19	11/31/23	N/A	0	0	0		ok	ok	ok	ok							2018	5	2019	1	2023	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
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28			ok	7/27/18	1/1/19	11/31/20	N/A	0	0	0		ok	ok	ok	ok							2018	7	2019	1	2020	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
29			ok	7/5/19	1/1/20	11/31/22	N/A	0	0	0		ok	ok	ok	ok							2019	7	2020	1	2022	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
30			ok	7/5/19	1/1/22	11/31/23	N/A	0	0	0		ok	ok	ok	ok							2019	7	2022	1	2022	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
31			ok	9/13/19	1/1/20	11/31/20	N/A	0	0	0		ok	ok	ok	ok							2019	9	2020	1	2020	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
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33			ok	9/17/19	7/1/22	10/31/22	N/A	0	0	0		ok	ok	ok	ok							2019	9	2022	7	2022	10	1	1	1	1	1						#VALUE!	#VALUE!	0			
34			ok	10/1/19	1/1/20	11/31/20	N/A	0	0	0		ok	ok	ok	ok							2019	10	2020	1	2020	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
35			ok	10/16/19	1/1/20	11/31/20	N/A	0	0	0		ok	ok	ok	ok							2019	10	2020	1	2020	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
36			ok	10/16/19	1/1/20	11/31/20	N/A	0	0	0		ok	ok	ok	ok							2019	10	2020	1	2020	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
37			ok	10/18/19	1/1/21	9/30/21	N/A	0	0	0		ok	ok	ok	ok							2019	10	2021	1	2021	9	1	1	1	1	1						#VALUE!	#VALUE!	0			
38			ok	10/25/19	1/1/20	11/31/22	N/A	0	0	0		ok	ok	ok	ok							2019	10	2020	1	2022	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
39			ok	10/25/19	1/1/20	11/31/22	N/A	0	0	0		ok	ok	ok	ok							2019	10	2020	1	2022	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
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41			ok	10/25/19	1/1/20	11/31/19	N/A	0	0	0		ok	ok	ok	ok							2019	10	2020	1	2020	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
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49			ok	10/29/19	1/1/20	11/31/20	N/A	0	0	0		ok	ok	ok	ok							2019	10	2020	1	2020	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
50			ok	10/29/19	8/1/20	11/31/21	N/A	0	0	0		ok	ok	ok	ok							2019	10	2020	8	2021	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
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53			ok	11/15/19	1/1/20	3/31/20	N/A	0	0	0		ok	ok	ok	ok							2019	11	2020	1	2020	3	1	1	1	1	1						#VALUE!	#VALUE!	0			
54			ok	11/15/19	1/1/20	3/31/20	N/A	0	0	0		ok	ok	ok	ok							2019	11	2020	1	2020	3	1	1	1	1	1						#VALUE!	#VALUE!	0			
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64			ok	1/28/20	6/1/20	6/30/20	N/A	0	0	0		ok	ok	ok	ok							2020	1	2020	6	2020	6	1	1	1	1	1						#VALUE!	#VALUE!	0			
65			ok	2/5/20	4/1/20	4/30/20	N/A	0	0	0		ok	ok	ok	ok							2020	2	2020	4	2020	4	1	1	1	1	1						#VALUE!	#VALUE!	0			
66			ok	2/5/20	4/1/20	11/31/20	N/A	0	0	0		ok	ok	ok	ok							2020	2	2020	4	2020	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
67			ok	1/28/20	4/1/20	4/30/20	N/A	0	0	0		ok	ok	ok	ok							2020	1	2020	4	2020	4	1	1	1	1	1						#VALUE!	#VALUE!	0			
68			ok	2/5/20	4/1/20	4/30/20	N/A	0	0	0		ok	ok	ok	ok							2020	2	2020	4	2020	4	1	1	1	1	1						#VALUE!	#VALUE!	0			
69			ok	2/5/20	4/1/20	11/31/20	N/A	0	0	0		ok	ok	ok	ok							2020	2	2020	4	2020	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
70			ok	2/5/20	4/1/20	11/31/20	N/A	0	0	0		ok	ok	ok	ok							2020	2	2020	4	2020	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
71			ok	4/13/20	6/1/20	6/30/20	N/A	0	0	0		ok	ok	ok	ok							2020	4	2020	6	2020	6	1	1	1	1	1						#VALUE!	#VALUE!	0			
72			ok	5/5/20	10/1/20	10/31/20	N/A	0	0	0		ok	ok	ok	ok							2020	5	2020	10	2020	10	1	1	1	1	1						#VALUE!	#VALUE!	0			
73			ok	5/5/20	7/1/20	8/31/20	N/A	0	0	0		ok	ok	ok	ok							2020	5	2020	7	2020	8	1	1	1	1	1						#VALUE!	#VALUE!	0			
74			ok	5/5/20	7/1/20	8/31/20	N/A	0	0	0		ok	ok	ok	ok							2020	5	2020	7	2020	8	1	1	1	1	1						#VALUE!	#VALUE!	0			
75			ok	5/7/20	8/1/20	8/31/20	N/A	0	0	0		ok	ok	ok	ok							2020	5	2020	8	2020	8	1	1	1	1	1						#VALUE!	#VALUE!	0			
76			ok	5/21/20	8/1/20	8/31/20	N/A	0	0	0		ok	ok	ok	ok							2020	5	2020	8	2020	8	1	1	1	1	1						#VALUE!	#VALUE!	0			
77			ok	5/22/20	8/1/20	8/31/20	N/A	0	0	0		ok	ok	ok	ok							2020	5	2020	8	2020	8	1	1	1	1	1						#VALUE!	#VALUE!	0			
78			8/1/21	5/29/20	8/1/21	7/31/31	877	0	0	1		1	1	1	3	4	240	1	130	190	0	2020	5	2021	8	2031	7	1	1	1	1	1						#VALUE!	#VALUE!	60			
79			ok	11/14/17	1/1/19	11/31/20	N/A	0	0	0		ok	ok	ok	ok							2017	12	2019	1	2020	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
80			ok	11/14/17	1/1/18	11/31/20	N/A	0	0	0		ok	ok	ok	ok							2017	12	2018	1	2020	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
81			ok	2/2/18	3/1/18	11/31/20	N/A	0	0	0		ok	ok	ok	ok							2018	2	2018	3	2020	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
82			ok	11/21/18	1/1/19	11/31/21	N/A	0	0	0		ok	ok	ok	ok							2018	11	2019	1	2021	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
83			ok	5/17/19	1/1/21	11/31/21	N/A	0	0	0		ok	ok	ok	ok							2019	5	2021	1	2021	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
84			ok	5/16/19	1/1/20	11/31/20	N/A	0	0	0		ok	ok	ok	ok							2019	5	2020	1	2020	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
85			ok	7/24/19	10/1/20	11/31/22	N/A	0	0	0		ok	ok	ok	ok							2019	7	2020	10	2022	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
86			ok	8/28/19	1/1/21	11/31/21	N/A	0	0	0		ok	ok	ok	ok							2019	8	2021	1	2021	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
87			ok	8/28/19	1/1/21	11/31/21	N/A	0	0	0		ok	ok	ok	ok							2019	8	2021	1	2021	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
88			ok	9/3/19	1/1/22	11/31/22	N/A	0	0	0		ok	ok	ok	ok							2019	9	2022	1	2022	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
89			ok	8/28/19	1/1/21	11/31/21	N/A	0	0	0		ok	ok	ok	ok							2019	8	2021	1	2021	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
90			ok	10/15/19	1/1/21	11/31/21	N/A	0	0	0		ok	ok	ok	ok							2019	10	2021	1	2021	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
91			ok	10/15/19	1/1/21	11/31/22	N/A	0	0	0		ok	ok	ok	ok							2019	10	2021	1	2022	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
92			ok	2/5/20	1/1/21	11/31/21	N/A	0	0	0		ok	ok	ok	ok							2020	2	2021	1	2021	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
93			ok	2/27/20	1/1/21	12/31/21	N/A	0	0	0		ok	ok	ok	ok							2020	2	2021	1	2021	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
94			ok	3/4/20	1/1/22	11/31/22	N/A	0	0	0		ok	ok	ok	ok							2020	3	2022	1	2022	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
95			ok	3/4/20	1/1/23	11/31/23	N/A	0	0	0		ok	ok	ok	ok							2020	3	2023	1	2023	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
96			ok	4/29/20	1/1/23	11/31/23	N/A	0	0	0		ok	ok	ok	ok							2020	4	2023	1	2023	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
97			ok	4/29/20	1/1/24	11/31/24	N/A	0	0	0		ok	ok	ok	ok							2020	4	2024	1	2024	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
98			ok	4/29/20	1/1/24	11/31/24	N/A	0	0	0		ok	ok	ok	ok							2020	4	2024	1	2024	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
99			ok	5/8/17	3/1/18	11/31/22	N/A	0	0	0		ok	ok	ok	ok							2017	12	2018	3	2022	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
100			ok	12/14/17	3/1/18	12/31/20	N/A	0	0	0		ok	ok	ok	ok							2017	12	2018	3	2020	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
101			ok	6/25/18	7/1/18	11/31/20	N/A	0	0	0		ok	ok	ok	ok							2018	6	2018	7	2020	12	1	1	1	1	1						#VALUE!	#VALUE!	0			
102			ok	10/24/18	1/1/19	11/31/20	N/A	0	0	0		ok	ok	ok	ok							2018	10	2019	1	2020	12	1	1	1	1	1						#VALUE!	#VALUE!	0			

| | | |

monthly_gwh_mw

Test: Correct data type for resource	Test: Correct data type for Year	Test: Correct data type for Month	TEST: No blanks in energy and capacity data	TEST: No missing data	Test: Correct data type for max_mw	TEST: NQC provided only once	TEST: Working ELCC type
0	0	0	0	0	0	0	0

unique_contracts

Test: Correct data type for lse_owned	Test: Correct data type for cam	Test:All data provided for hybrid	TEST: All data provided for contract	TEST: No fillmes
0	0	0	0	0

monthly_gwh_mw

notes	max_mw	resource_type	currently_online	elcc_type
0	0	0	0	0

unique_contracts

online_date_for_new_resources	is_incremental	viability_cod_reasonableness	viability_technical_feasibility	viability_resource_sufficiency	viability_financing
0	0	0	0	0	0

Show NQC for this month in System Reliability Progress Tracking Table->	September
Show D.19-11-016 incremental procurement in this year -->	2021
Display NQC MW or GWh in System Reliability Progress Tracking Table?	NQC MW

September 2021

System Reliability Progress Tracking Table (NQC MW) for month of September by contract status, 46 MMT portfolio	ELCC type	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
[redacted]												

NQC MW from data	NQC MW displayed in table	difference (absolute)	match?
[redacted]			

0 <—Number of resources with an ELCC type of "fillme". If this is nonzero, it can cause a mismatch above.

[redacted]

Check match of incremental procurement data
TRUE

item	col	name
NQC MW	monthly_g	System Reliability Progress Tracking Table (NQC MW) for month of September by contract status, 46 MMT portfolio
GWh	monthly_g	Annual GWh by resource type