

Loss of Load and Generation (MWh) by Resource Type Climate Change Impact and Resilience Study - Phase II Appendix C

Case	Season	Resource Set	Stress	Case No.	Land-based Wind	Offshore Wind	Solar BTM	Grid Solar	Energy Storage	Battery Hours	Demand Response	D.R. Hours	DE Resources	DER Hours	Generation Total	Loss of Load Hours	Loss of Load MWh
Reference	Summer	CCP2	Hurricane	Case 38	2,910,376	2,634,401	612,873	3,748,224	726,891	257	467,529	368	1,637,221	349	18,678,340	76	96,295
CLCPA	Winter	GIT	Upstate Wind Storm	Case 63	4,866,393	7,457,201	328,040	1,743,112	586,508	283	961,052	420	6,707,765	551	27,327,211	51	57,457
CLCPA	Winter	CCP2	Upstate Wind Storm	Case 17	7,193,547	6,111,804	528,251	2,041,991	856,280	262	623,946	325	3,822,059	369	27,749,793	45	22,150
CLCPA	Summer	CCP2	Hurricane	Case 15	4,979,290	2,625,360	1,005,783	4,104,207	948,195	245	858,127	366	1,892,046	322	22,721,719	26	20,168
CLCPA	Summer	GIT	Hurricane	Case 61	3,672,684	3,489,166	653,600	3,714,427	749,681	272	1,003,981	492	4,832,633	559	22,578,407	25	20,488
CLCPA	Summer	GIT	Upstate Wind Storm	Case 62	2,733,529	4,497,533	673,386	3,795,053	776,819	313	1,031,629	502	4,998,149	549	22,974,732	24	18,693
CLCPA	Winter	GIT	Icing	Case 69	6,212,009	7,270,652	320,731	1,708,604	577,516	245	906,457	398	6,145,570	480	27,821,286	14	11,242
Reference	Summer	CCP2	Upstate Wind Storm	Case 39	2,155,404	3,379,546	627,444	3,803,612	662,049	304	490,434	372	1,975,003	330	19,485,400	18	4,470
CLCPA	Winter	CCP2	Statewide Calm	Case 13	9,043,988	5,288,985	503,859	1,951,742	800,462	189	566,429	276	3,653,404	278	28,380,754	13	14,404
Reference	Summer	CCP2	Drought	Case 44	3,291,114	3,731,042	697,957	4,248,055	804,899	271	504,521	347	1,305,698	209	20,048,118	11	6,303
CLCPA	Winter	GIT	Drought	Case 68	6,701,074	7,480,999	330,010	1,758,035	568,061	232	952,384	376	6,696,533	470	28,029,028	11	11,291
CLCPA	Winter	CCP2	Wind Lull Offshore	Case 10	9,382,400	5,282,033	503,197	1,949,177	842,671	192	556,764	272	3,350,666	274	28,442,227	10	7,184
CLCPA	Winter	CCP2	Drought	Case 22	9,661,074	5,979,958	518,143	2,007,071	866,943	181	567,452	266	3,308,802	274	28,467,974	10	6,106
Reference	Winter	CCP2	Upstate Wind Storm	Case 40	2,364,973	3,449,561	181,054	1,048,942	358,711	188	168,851	215	119,194	56	14,214,458	10	1,146
CLCPA	Winter	CCP2	Offshore Wind Storm	Case 19	9,950,572	4,269,184	533,669	2,067,214	936,756	214	613,244	295	3,609,785	304	28,555,340	9	4,203
CLCPA	Winter	GIT	Statewide Calm	Case 59	6,259,597	6,602,669	320,224	1,705,905	535,890	221	913,283	377	6,988,838	486	28,002,956	9	10,757
CLCPA	Summer	CCP2	Upstate Wind Storm	Case 16	3,883,307	3,546,665	1,084,335	4,385,860	951,409	309	969,018	373	2,002,682	283	23,216,680	8	1,620
CLCPA	Winter	GIT	Onshore Calm	Case 53	6,273,712	7,275,534	320,946	1,709,751	570,531	247	910,657	385	6,309,711	469	28,047,392	8	7,090
CLCPA	Winter	GIT	Offshore Calm	Case 56	6,471,273	6,571,095	318,693	1,697,747	536,306	223	904,613	378	6,836,558	487	28,012,835	6	1,378
CLCPA	Winter	CCP2	Wind Lull Upstate	Case 7	9,090,244	5,844,851	506,436	1,961,725	871,386	184	554,658	261	3,076,530	259	28,482,145	5	2,373
Reference	Summer	CCP2	Statewide Calm	Case 35	2,763,845	3,020,307	687,897	4,186,821	685,887	260	505,755	332	1,697,729	283	19,919,827	4	3,149
Reference	Winter	CCP2	Icing	Case 46	2,951,376	3,288,022	173,005	1,004,391	322,261	130	135,983	151	9,887	14	14,373,284	3	157
CLCPA	Winter	CCP2	Icing	Case 23	9,017,653	5,851,840	507,042	1,964,070	923,544	210	561,710	276	2,909,441	273	28,312,431	2	88
Reference	Summer	CCP2	Wind Lull Upstate	Case 29	2,739,711	3,645,151	681,890	4,150,262	762,053	260	485,968	337	1,175,962	209	20,014,730	2	729
Reference	Summer	CCP2	Wind Lull Offshore	Case 32	3,225,043	3,002,960	683,946	4,162,773	750,526	288	494,222	353	1,307,217	243	20,001,372	2	1,797
CLCPA	Winter	GIT	Offshore Wind Storm	Case 65	6,673,681	5,164,148	328,661	1,750,849	553,012	228	968,876	400	7,916,575	561	28,030,269	2	327
CLCPA	Summer	CCP2		Case 1	5,462,687	3,607,300	1,111,240	4,512,726	1,096,902	247	855,608	323	847,589	145	23,834,257	0	0
CLCPA	Winter	CCP2		Case 2	9,374,434	5,802,535	502,770	1,947,522	878,087	185	544,857	255	2,866,203	255	28,493,677	0	0
CLCPA	Shoulder	CCP2		Case 3	2,661,916	1,799,474	289,509	1,162,669	4,852		13,119		0		12,502,469		
CLCPA	Summer	CCP2	Heat Wave	Case 4	5,266,677	3,524,269	1,190,415	4,791,541	1,146,325	256	900,108	335	964,668	147	24,124,995		
CLCPA	Winter	CCP2	Cold Snap	Case 5	9,473,782	5,864,029	594,149	2,313,840	946,003	200	560,652	266	2,879,947	259	29,211,716		
CLCPA	Summer	CCP2	Wind Lull Upstate	Case 6	4,802,392	3,721,835	1,146,523	4,656,009	1,177,630	264	917,925	344	1,171,656	179	23,949,077		
CLCPA	Shoulder	CCP2	Wind Lull Upstate	Case 8	2,424,869	1,921,008	309,062	1,241,195	6,125		30,776				12,503,965		
CLCPA	Summer	CCP2	Wind Lull Offshore	Case 9	5,595,771	3,035,028	1,138,313	4,622,668	1,174,286	275	908,883	359	1,116,165	196	23,949,414		
CLCPA	Shoulder	CCP2	Wind Lull Offshore	Case 11	2,780,920	1,611,361	302,452	1,214,648	5,879		17,488				12,503,678		
CLCPA	Summer	CCP2	Statewide Calm	Case 12	4,834,847	3,077,577	1,154,271	4,687,475	1,108,080	268	960,664	362	1,697,161	235	23,898,989		
CLCPA	Shoulder	CCP2	Statewide Calm	Case 14	2,531,655	1,719,090	322,672	1,295,854	15,493		59,291				12,514,985		
CLCPA	Summer	CCP2	Offshore Wind Storm	Case 18	5,632,875	2,969,966	1,145,860	4,653,319	1,175,299	279	931,315	356	1,079,462	167	23,933,782		
CLCPA	Shoulder	CCP2	Offshore Wind Storm	Case 20	2,875,329	1,461,643	312,719	1,255,883	4,852		21,112				12,502,468		
CLCPA	Summer	CCP2	Drought	Case 21	5,672,437	3,745,809	1,153,908	4,686,001	1,172,574	265	903,658	338	1,148,649	166	23,922,087		
Reference	Summer	CCP2		Case 24	3,145,064	3,565,470	666,984	4,059,539	734,114		460,868		972,445		19,965,047		
Reference	Winter	CCP2		Case 25	3,094,871	3,288,718	173,042	1,004,603	312,542		125,986		9,316		14,491,753		
Reference	Shoulder	CCP2		Case 26	1,623,457	1,884,098	184,074	1,107,943	9,745		16,458				11,396,705		
Reference	Summer	CCP2	Heat Wave	Case 27	3,035,595	3,487,285	715,303	4,315,160	783,113		492,505		1,067,892		20,276,547		
Reference	Winter	CCP2	Cold Snap	Case 28	3,164,734	3,362,956	206,916	1,207,707	322,290		126,012		9,316		14,882,606		
Reference	Winter	CCP2	Wind Lull Upstate	Case 30	3,024,648	3,338,751	175,674	1,019,887	347,391		133,493		10,646		14,534,406		
Reference	Shoulder	CCP2	Wind Lull Upstate	Case 31	1,454,793	1,978,579	193,305	1,163,502	11,779		26,212				11,399,100		
Reference	Winter	CCP2	Wind Lull Offshore	Case 33	3,203,629	3,096,283	179,123	1,039,906	352,537		141,917		48,055		14,560,101		
Reference	Shoulder	CCP2	Wind Lull Offshore	Case 34	1,717,961	1,708,948	194,789	1,172,437	10,495		22,027				11,397,587		
Reference	Winter	CCP2	Statewide Calm	Case 36	3,115,253	3,127,641	180,937	1,050,438	353,002		147,726		90,238		14,573,619		
Reference	Shoulder	CCP2	Statewide Calm	Case 37	1,541,734	1,797,276	204,857	1,233,036	23,561		41,565				11,412,959		
Reference	Summer	CCP2	Offshore Wind Storm	Case 41	3,265,683	2,956,015	692,564	4,215,230	804,974		511,874		1,249,962	56	20,082,258		
Reference	Winter	CCP2	Offshore Wind Storm	Case 42	3,559,065	2,621,465	198,996	1,155,282	415,715		155,556		31,312		14,640,877		
Reference	Shoulder	CCP2	Offshore Wind Storm	Case 43	1,796,317	1,567,647	203,674	1,225,912	11,446		22,780				11,398,706		
Reference	Winter	CCP2	Drought	Case 45	3,493,819	3,712,654	195,348	1,134,103	440,040		159,551		44,773		14,671,048		
CLCPA	Summer	GIT		Case 47	3,863,788	4,596,439	693,085	3,918,407	834,108		1,030,945		4,181,951		23,603,008		
CLCPA	Winter	GIT		Case 48	6,488,628	7,243,826	319,548	1,702,300	575,873		898,730		6,155,323		28,060,778		
CLCPA	Shoulder	GIT		Case 49	2,650,016	3,230,029	256,538	1,427,887	140,027		226,363		7,233		12,661,488		
CLCPA	Summer	GIT	Heat Wave	Case 50	3,685,477	4,442,980	742,845	4,199,478	841,074		1,047,074		4,404,209		23,861,455		
CLCPA	Winter	GIT	Cold Snap	Case 51	6,539,563	7,300,690	381,598	2,042,508	601,558		914,056		6,272,963		28,740,163		
CLCPA	Summer	GIT	Onshore Calm	Case 52	3,353,283	4,681,683	705,939	3,991,076	832,399		1,048,935		4,501,251		23,592,487		
CLCPA	Shoulder	GIT															