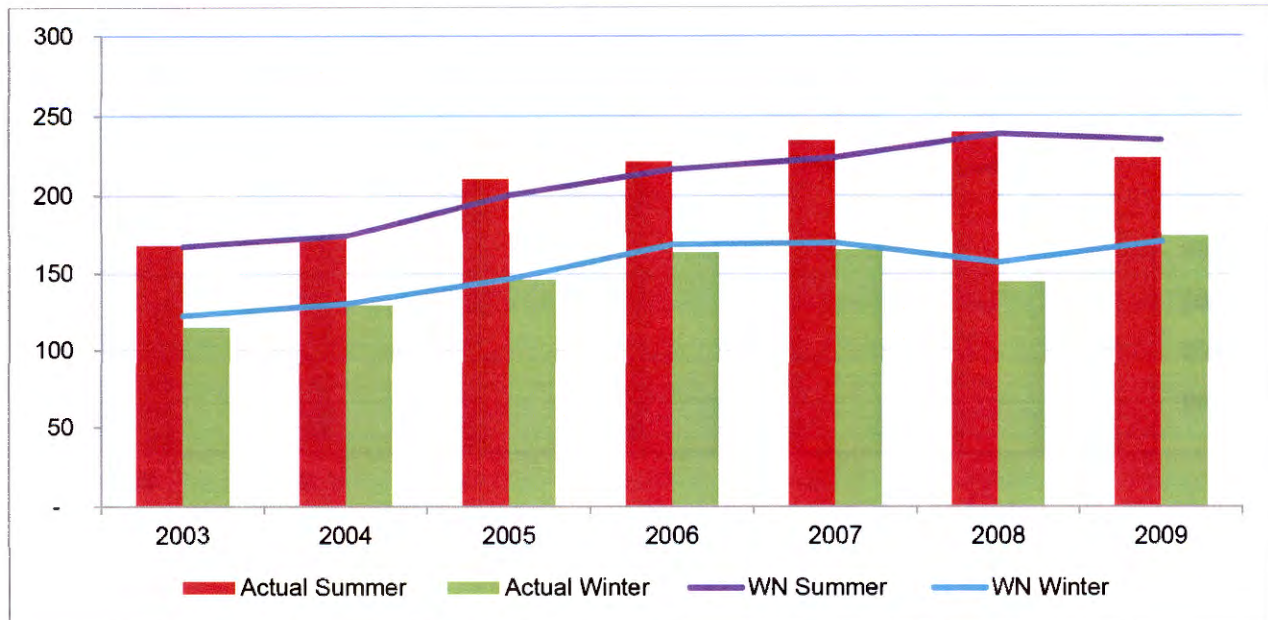
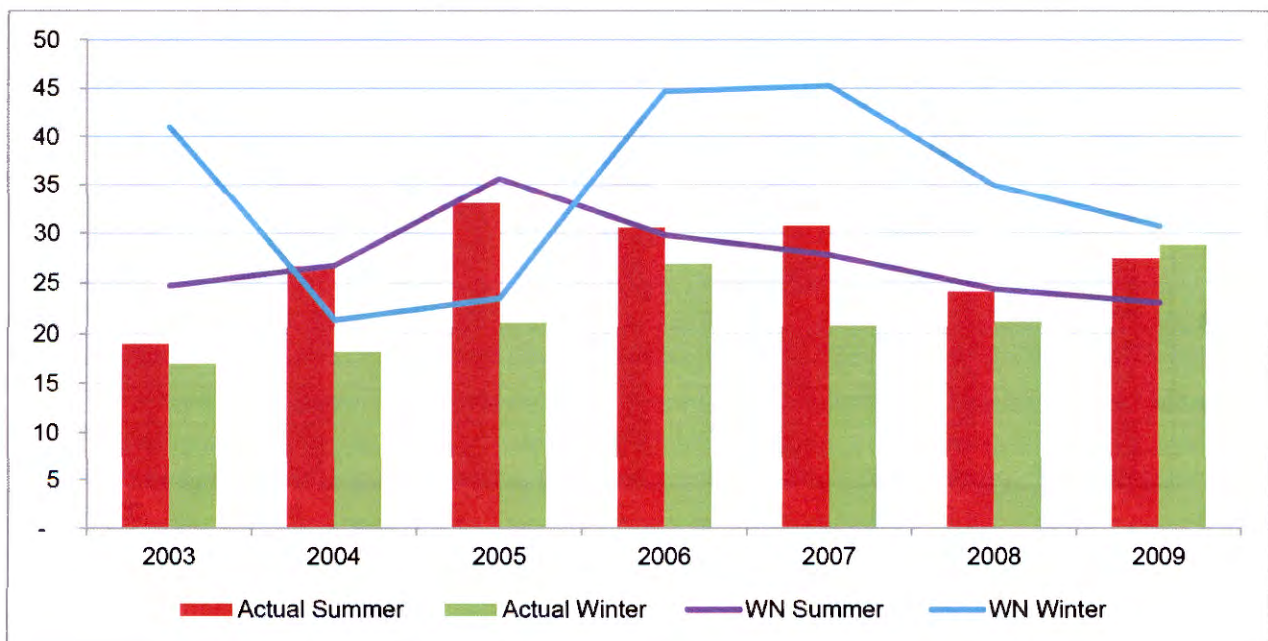
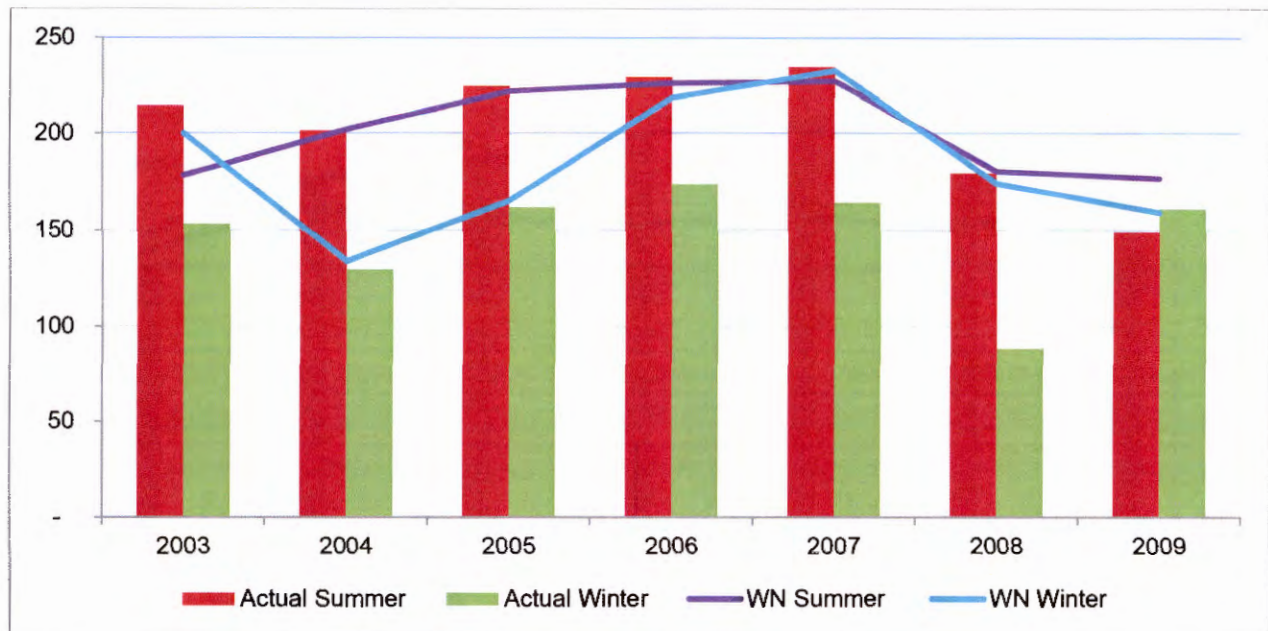
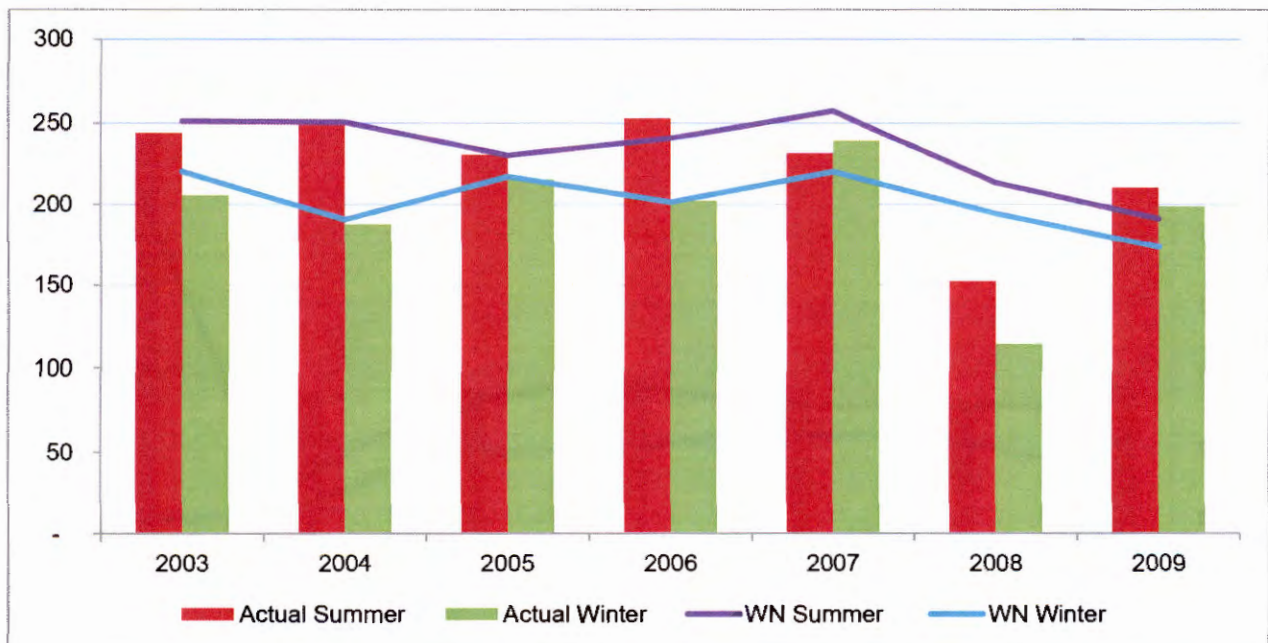
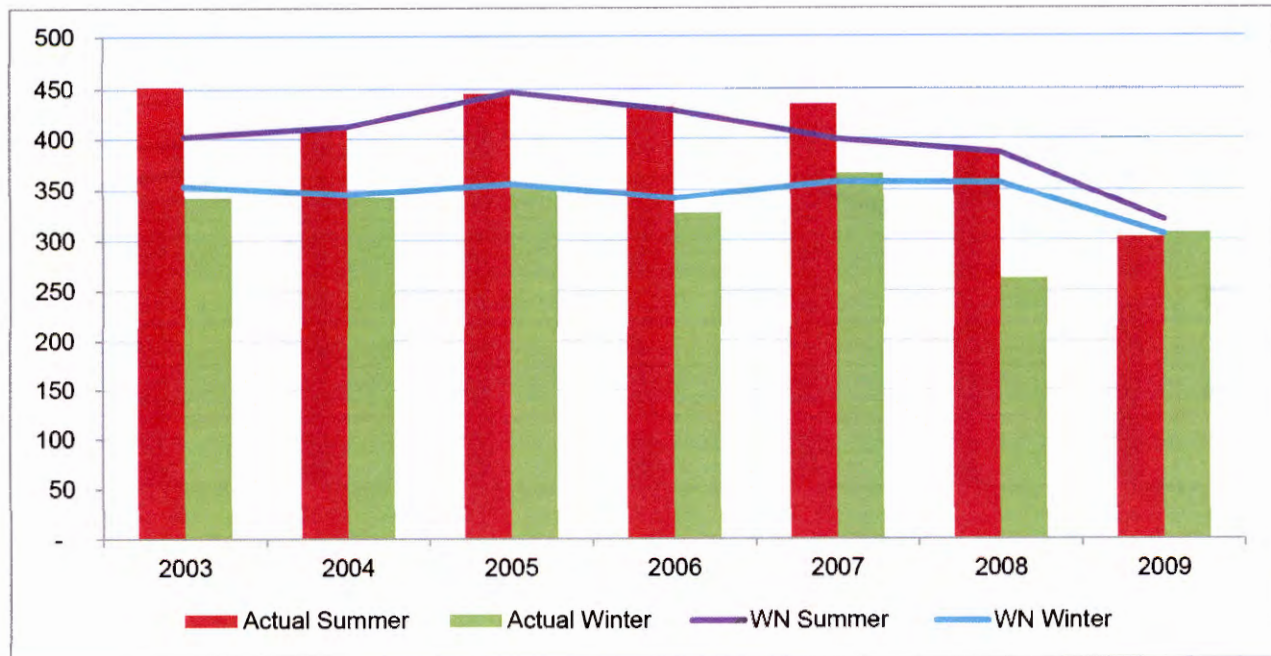
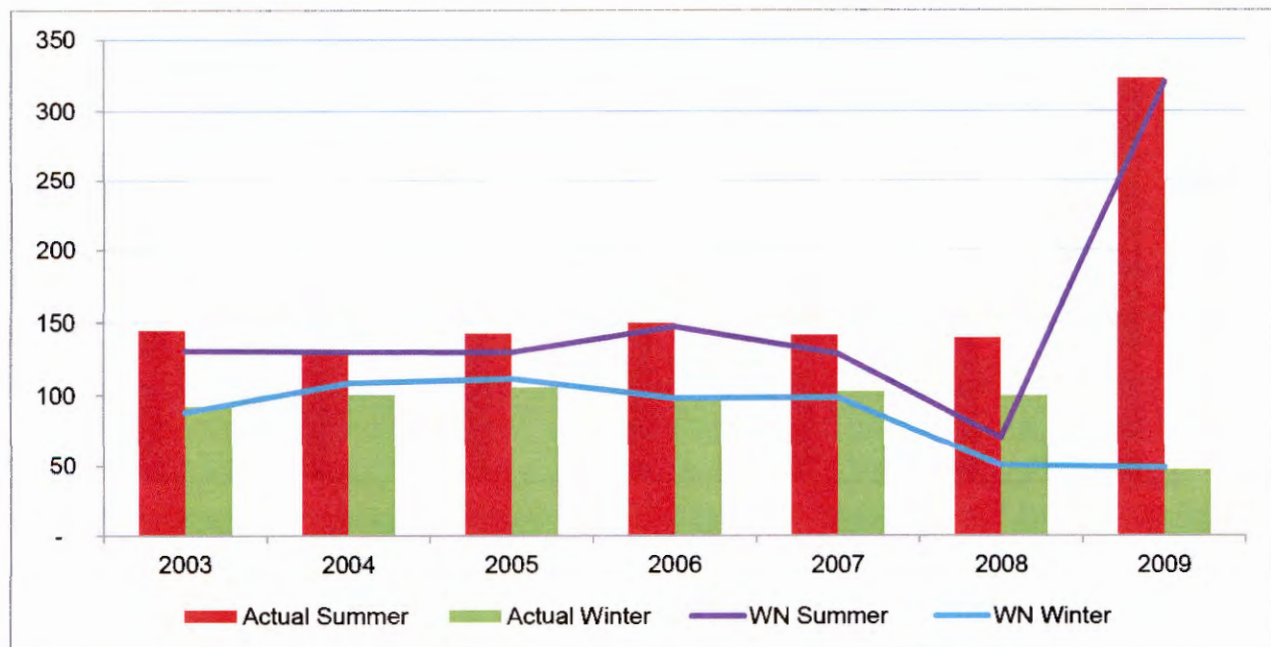
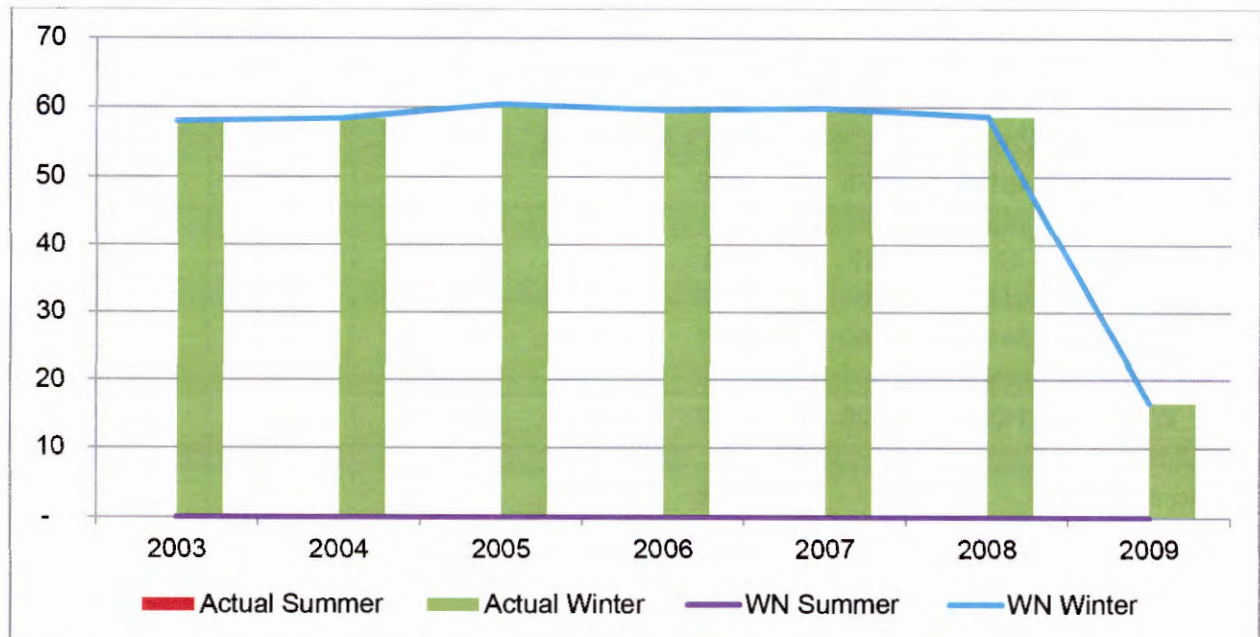
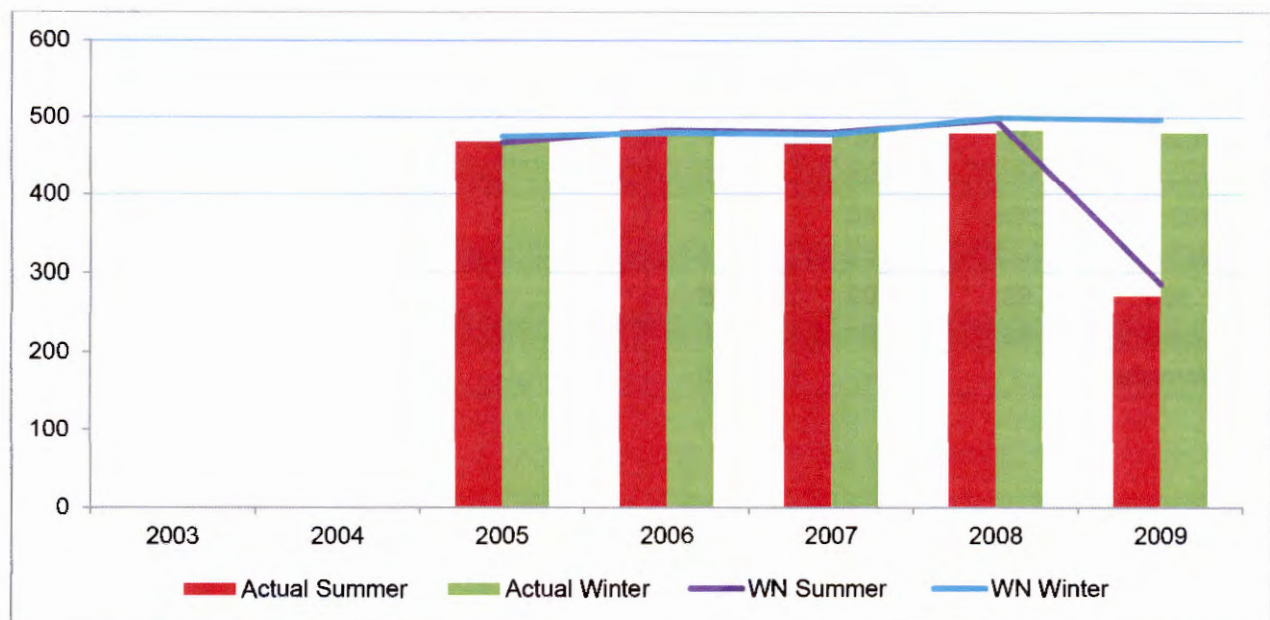


Historical Actual and Weather Normalized Summer and Winter Coincident Peak for Commercial LPS (MW)**Historical Actual and Weather Normalized Summer and Winter Coincident Peak for Industrial SGS (MW)**

Historical Actual and Weather Normalized Summer and Winter Coincident Peak for Industrial LGS (MW)**Historical Actual and Weather Normalized Summer and Winter Coincident Peak for Industrial SPS (MW)**

Historical Actual and Weather Normalized Summer and Winter Coincident Peak for Industrial LPS (MW)**Historical Actual and Weather Normalized Summer and Winter Coincident Peak for Wholesale (MW)**

Historical Actual and Weather Normalized Summer and Winter Coincident Peak for Lighting (MW)**Historical Actual and Weather Normalized Summer and Winter Coincident Peak for Noranda (MW)**

Historical Summer Coincident Peak by Class (MW)

	2003	2004	2005	2006	2007	2008	2009
RES	4,023	3,830	3,904	3,938	4,174	3,986	3,793
COMSGS	854	866	945	948	947	831	878
COMLGS	1,255	1,273	1,415	1,468	1,419	1,463	1,435
COMSPS	481	475	442	452	458	424	416
COMLPS	168	172	211	222	235	240	224
INDSGS	19	27	33	31	31	24	27
INDLGS	214	201	225	229	235	179	149
INDSPS	244	250	231	253	231	152	210
INDLPS	453	411	446	432	435	389	303
WS	145	129	143	150	142	140	323
Lighting	-	-	-	-	-	-	-
Noranda	-	-	468	483	466	479	270

Historical Winter Coincident Peak by Class (MW)

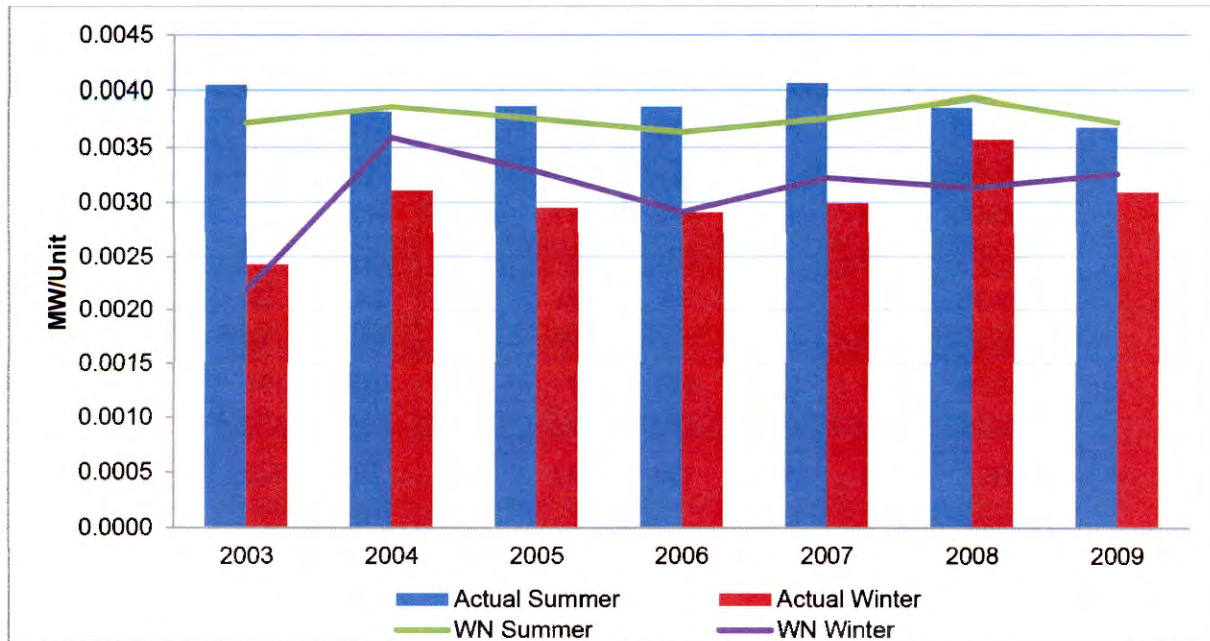
	2003	2004	2005	2006	2007	2008	2009
RES	2,426	3,128	3,001	2,984	3,092	3,694	3,199
COMSGS	494	542	609	577	604	546	653
COMLGS	1,025	935	1,103	1,118	1,059	1,059	1,291
COMSPS	311	314	319	297	364	291	362
COMLPS	115	130	146	164	165	145	175
INDSGS	17	18	21	27	21	21	29
INDLGS	153	130	162	174	164	89	161
INDSPS	206	188	215	202	239	114	199
INDLPS	342	343	354	327	366	262	307
WS	92	100	106	99	103	100	47
Lighting	58	58	60	60	60	59	17
Noranda	-	-	475	482	482	483	480

Historical Weather Normalized Summer Coincident Peak by Class (MW)

Year	2003	2004	2005	2006	2007	2008	2009
RES	3,697	3,875	3,783	3,700	3,862	4,065	3,838
COMSGS	860	875	912	911	912	844	823
COMLGS	1,375	1,284	1,381	1,438	1,465	1,473	1,424
COMSPS	455	479	442	441	470	427	433
COMLPS	167	174	201	217	224	239	235
INDSGS	25	27	36	30	28	24	23
INDLGS	178	202	222	226	227	180	176
INDSPS	251	251	230	241	257	213	191
INDLPS	402	412	447	428	399	386	320
WS	131	130	130	147	129	70	320
Lighting	-	-	-	-	-	-	-
Noranda			467	483	480	496	285

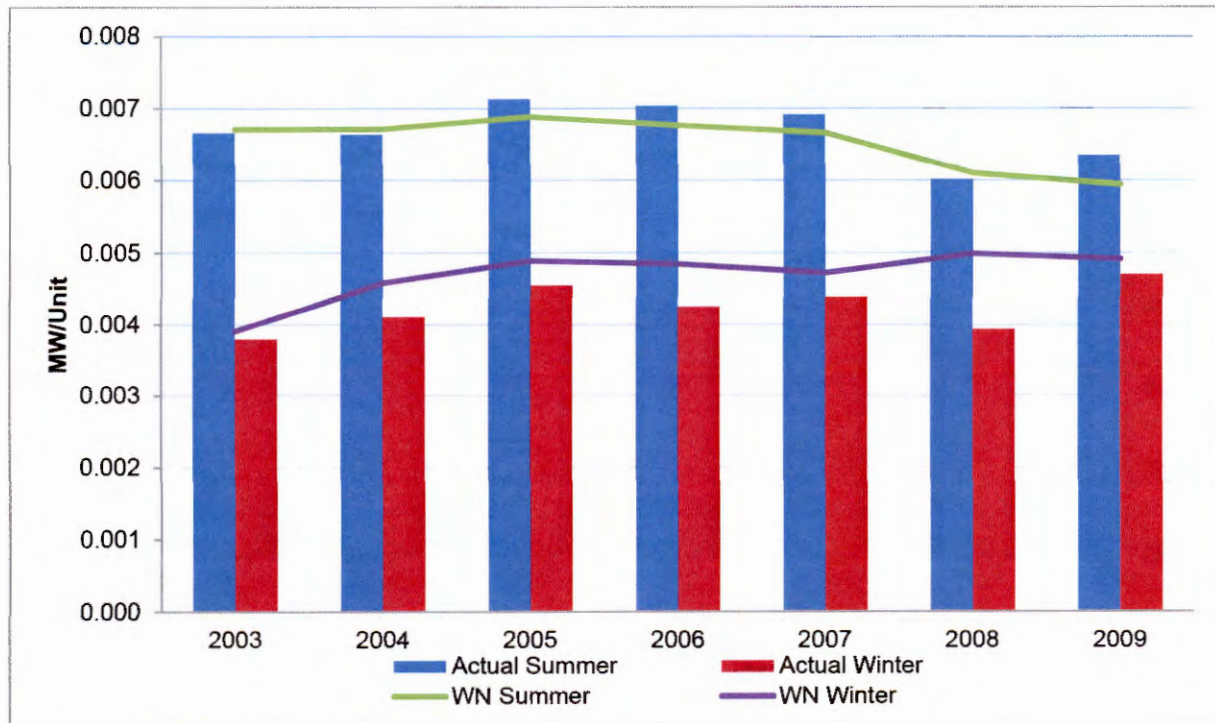
Historical Weather Normalized Winter Coincident Peak by Class (MW)

Year	2003	2004	2005	2006	2007	2008	2009
RES	2,196	3,603	3,342	2,988	3,331	3,240	3,371
COMSGS	508	604	655	655	649	691	682
COMLGS	1,223	1,056	1,189	1,331	1,318	1,297	1,346
COMSPS	345	321	324	323	376	371	372
COMLPS	123	130	147	169	170	157	171
INDSGS	41	21	23	45	45	35	31
INDLGS	200	134	165	218	233	174	159
INDSPS	220	190	217	201	220	195	173
INDLPS	354	345	356	341	357	357	306
WS	88	108	111	98	98	50	49
Lighting	58	58	60	60	60	59	17
Noranda			475	479	477	499	497

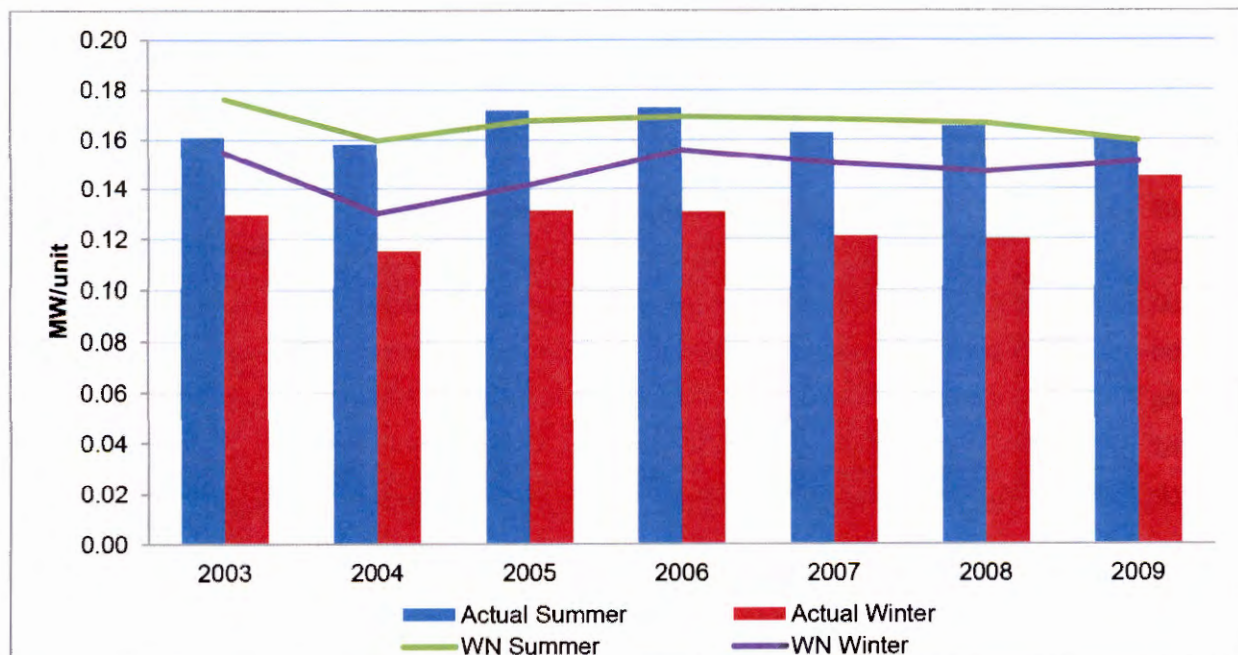
Actual and Weather Normalized Summer and Winter Coincident Peak Demand per Unit for Residential Class (MW/Unit)¹⁸

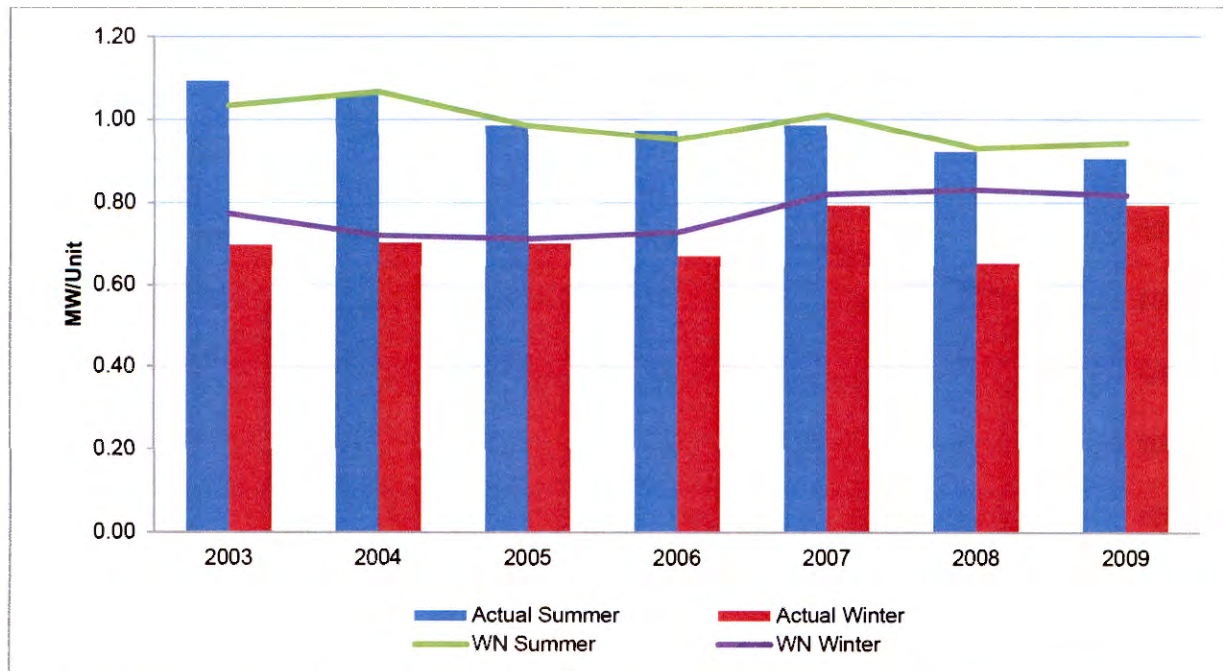
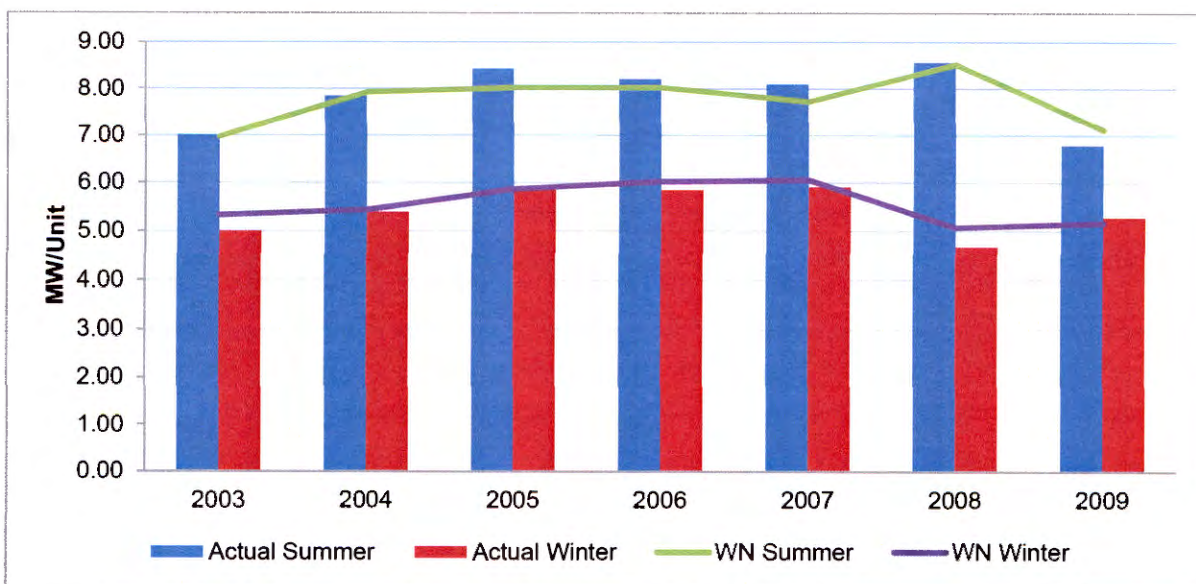
¹⁸ 4 CSR 240-22.030(8)(B), 4 CSR 240-22.030(1)(B)1

Actual and Weather Normalized Summer and Winter Coincident Peak Demand per Unit for Commercial SGS (MW/Unit)

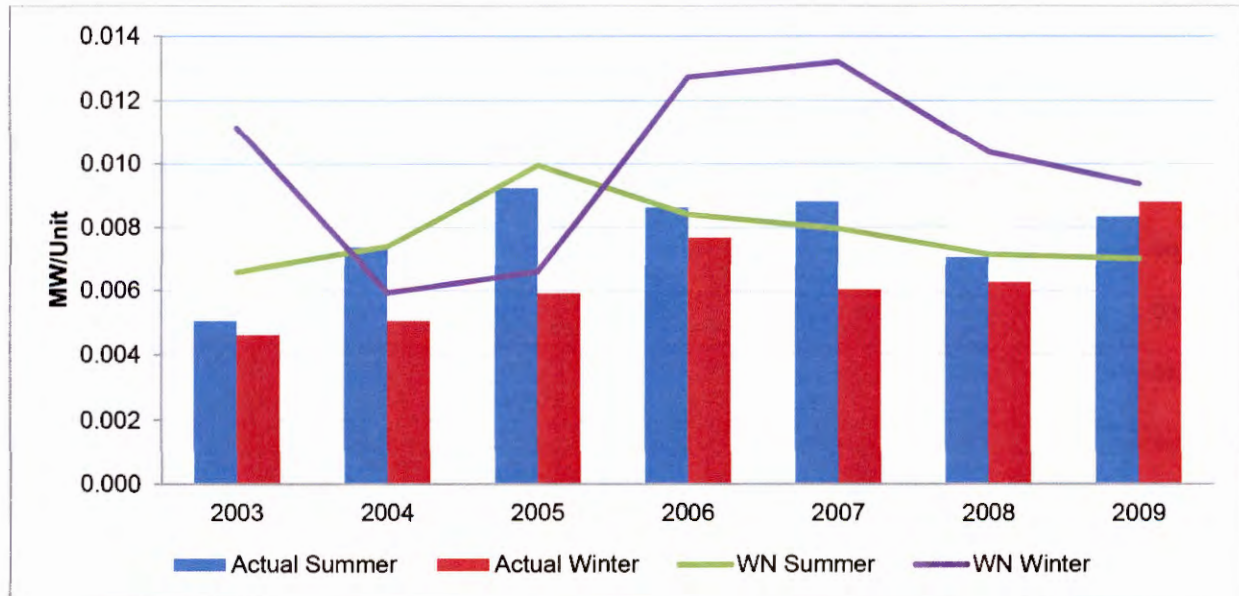


Actual and Weather Normalized Summer and Winter Coincident Peak Demand per Unit for Commercial LGS (MW/Unit)

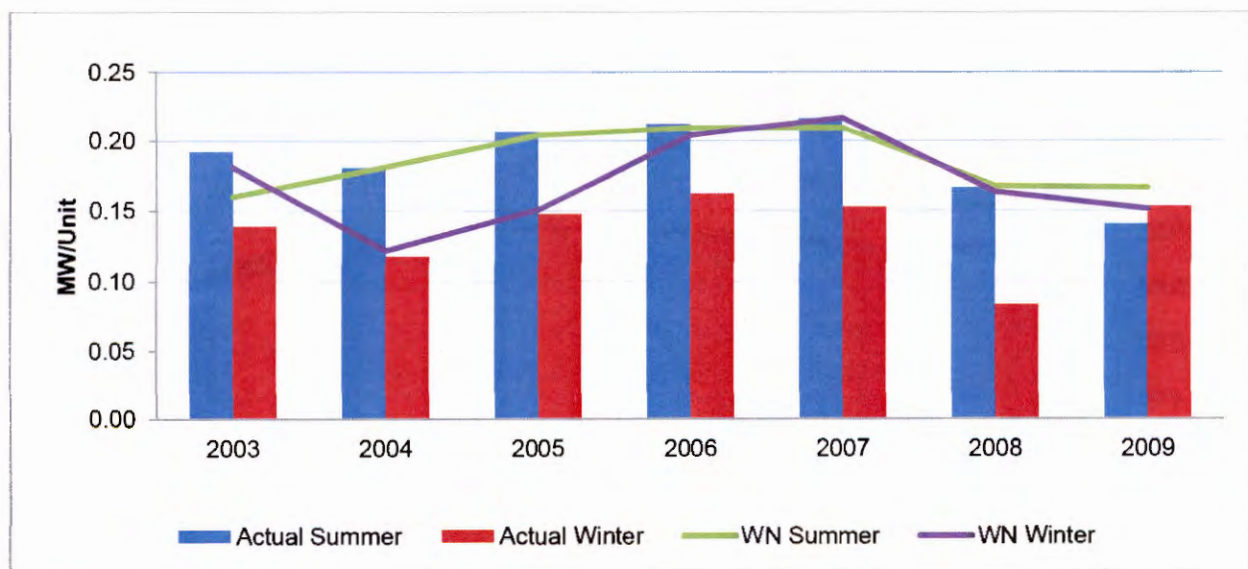


Actual and Weather Normalized Summer and Winter Coincident Peak Demand per Unit for Commercial SPS (MW/Unit)**Actual and Weather Normalized Summer and Winter Coincident Peak Demand per Unit for Commercial LPS (MW/Unit)**

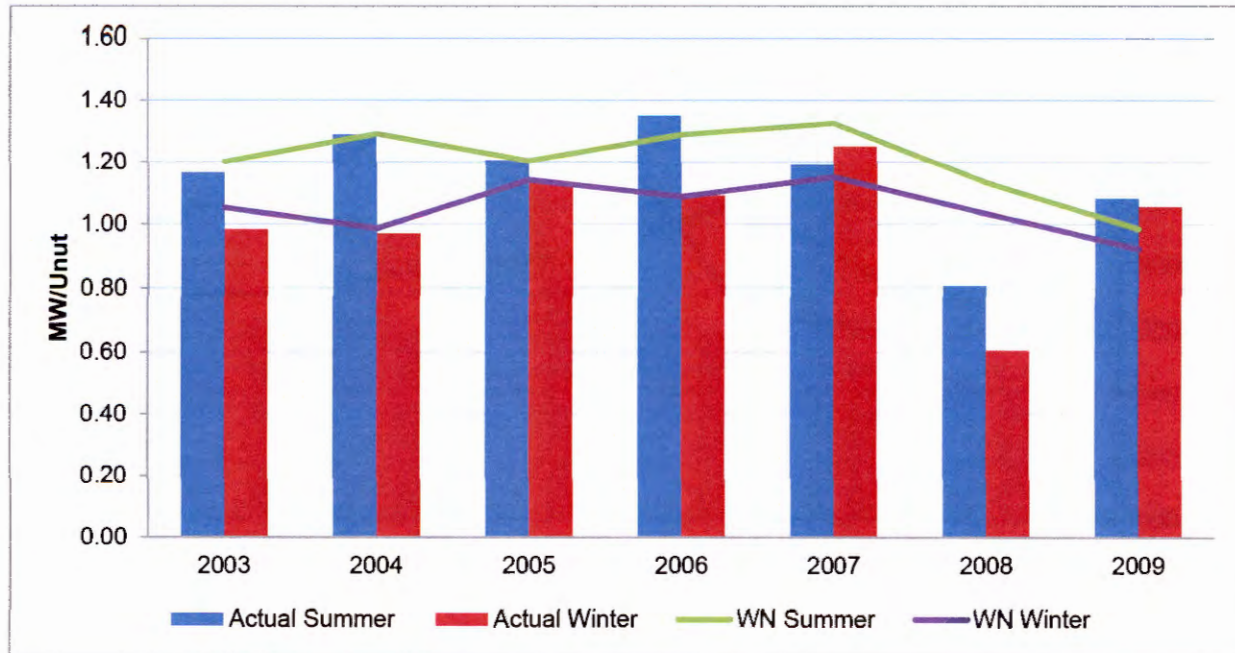
Actual and Weather Normalized Summer and Winter Coincident Peak Demand per Unit for Industrial SGS (MW/Unit)



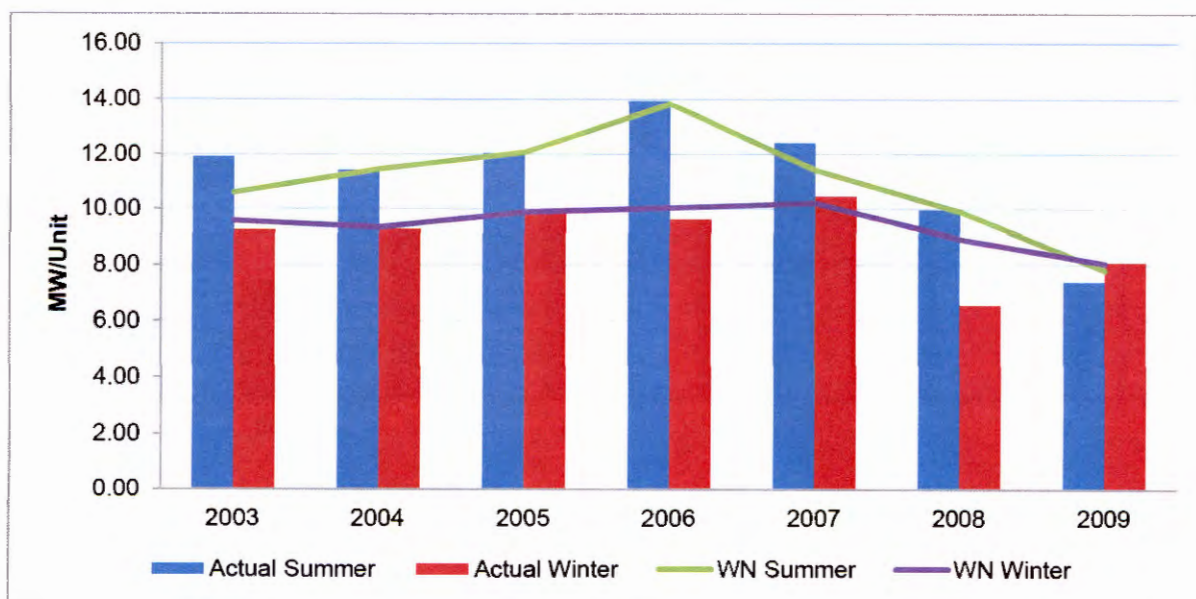
Actual and Weather Normalized Summer and Winter Coincident Peak Demand per Unit for Industrial LGS (MW/Unit)



Actual and Weather Normalized Summer and Winter Coincident Peak Demand per Unit for Industrial SPS (MW/Unit)



Actual and Weather Normalized Summer and Winter Coincident Peak Demand per Unit for Industrial LPS (MW/Unit)



Actual Summer Coincident Peak Demand per Unit by Class (MW/Unit)

	2003	2004	2005	2006	2007	2008	2009
RES	0.0040	0.0038	0.0039	0.0039	0.0041	0.0039	0.0037
COMSGS	0.0067	0.0066	0.0071	0.0070	0.0069	0.0060	0.0063
COMLGS	0.16	0.16	0.17	0.17	0.16	0.17	0.16
COMSPS	1.09	1.06	0.99	0.97	0.99	0.92	0.90
COMLPS	7.00	7.84	8.44	8.20	8.09	8.57	6.78
INDSGS	0.0051	0.0074	0.0092	0.0086	0.0088	0.0070	0.0083
INDLGS	0.19	0.18	0.21	0.21	0.22	0.17	0.14
INDSPS	1.17	1.29	1.21	1.35	1.19	0.81	1.08
INDLPS	11.91	11.42	12.04	13.94	12.42	9.97	7.39

Actual Winter Coincident Peak Demand per Unit by Class (MW/Unit)

	2003	2004	2005	2006	2007	2008	2009
RES	0.0024	0.0031	0.0030	0.0029	0.0030	0.0036	0.0031
COMSGS	0.0038	0.0041	0.0046	0.0043	0.0044	0.0039	0.0047
COMLGS	0.1295	0.1151	0.1313	0.1307	0.1209	0.1199	0.1449
COMSPS	0.698	0.703	0.700	0.669	0.794	0.651	0.795
COMLPS	5.004	5.399	5.844	5.847	5.907	4.671	5.290
INDSGS	0.0046	0.0051	0.0059	0.0077	0.0060	0.0063	0.0088
INDLGS	0.139	0.118	0.148	0.162	0.153	0.083	0.153
INDSPS	0.984	0.972	1.133	1.093	1.252	0.607	1.058
INDLPS	9.254	9.276	9.845	9.620	10.460	6.559	8.090

**Weather Normalized Summer Coincident Peak Demand per Unit by Class
(MW/Unit)**

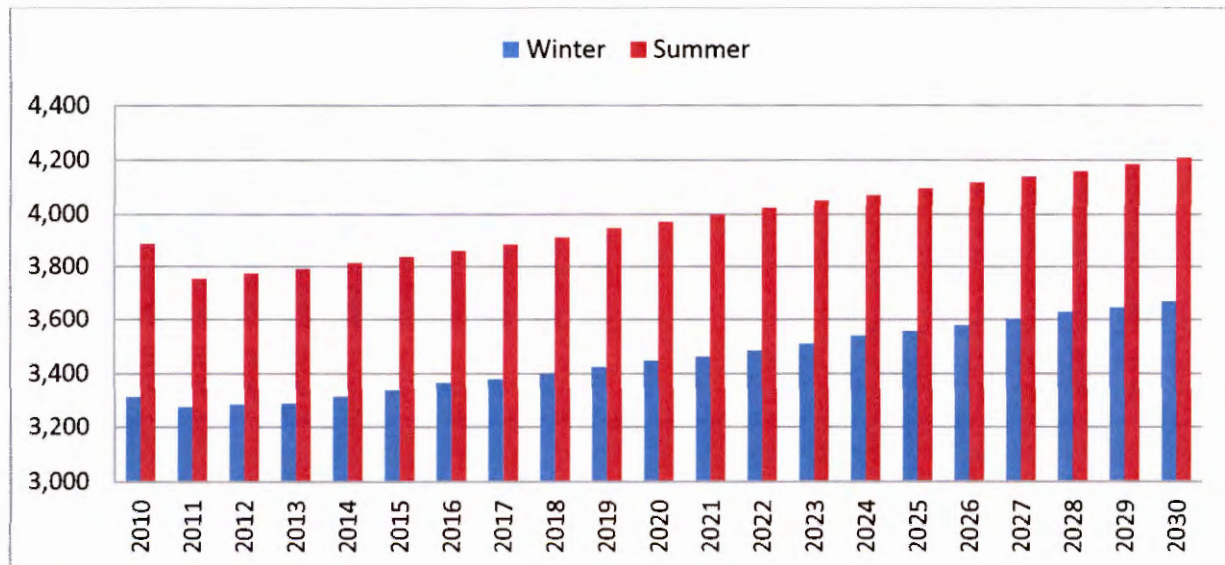
	2003	2004	2005	2006	2007	2008	2009
RES	0.0037	0.0039	0.0038	0.0036	0.0038	0.0039	0.0037
COMSGS	0.0067	0.0067	0.0069	0.0068	0.0067	0.0061	0.0059
COMLGS	0.1762	0.1596	0.1676	0.1693	0.1680	0.1666	0.1596
COMSPS	1.034	1.067	0.985	0.951	1.012	0.929	0.942
COMLPS	6.972	7.921	8.020	8.020	7.718	8.518	7.113
INDSGS	0.0066	0.0074	0.0099	0.0084	0.0080	0.0071	0.0070
INDLGS	0.160	0.181	0.204	0.209	0.209	0.168	0.166
INDSPS	1.202	1.291	1.204	1.288	1.325	1.135	0.985
INDLPS	10.586	11.446	12.071	13.817	11.410	9.894	7.801

**Weather Normalized Winter Coincident Peak Demand per Unit by Class
(MW/Unit)**

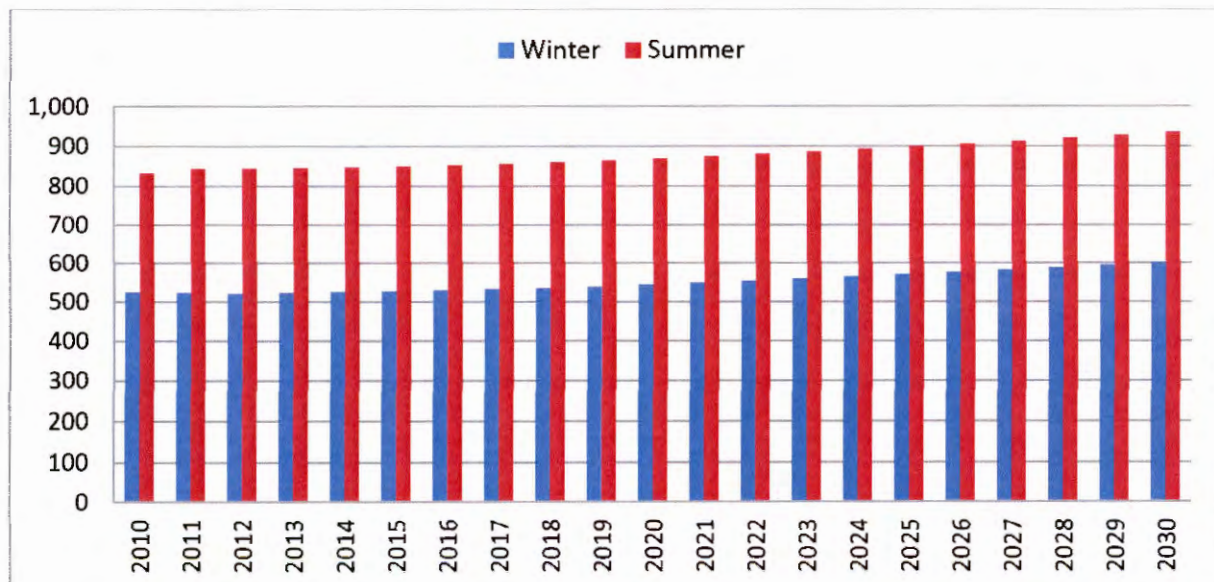
	2003	2004	2005	2006	2007	2008	2009
RES	0.0022	0.0036	0.0033	0.0029	0.0032	0.0031	0.0033
COMSGS	0.0039	0.0046	0.0049	0.0048	0.0047	0.0050	0.0049
COMLGS	0.1545	0.1300	0.1415	0.1557	0.1504	0.1469	0.1511
COMSPS	0.773	0.720	0.711	0.728	0.820	0.830	0.817
COMLPS	5.332	5.434	5.864	6.020	6.055	5.072	5.169
INDSGS	0.0111	0.0059	0.0066	0.0127	0.0132	0.0104	0.0094
INDLGS	0.181	0.121	0.151	0.204	0.216	0.163	0.151
INDSPS	1.053	0.987	1.143	1.088	1.152	1.035	0.922
INDLPS	9.563	9.336	9.880	10.041	10.213	8.915	8.041

Forecasted Total Demand at the time of Summer and Winter System Peak for Planning Case¹⁹

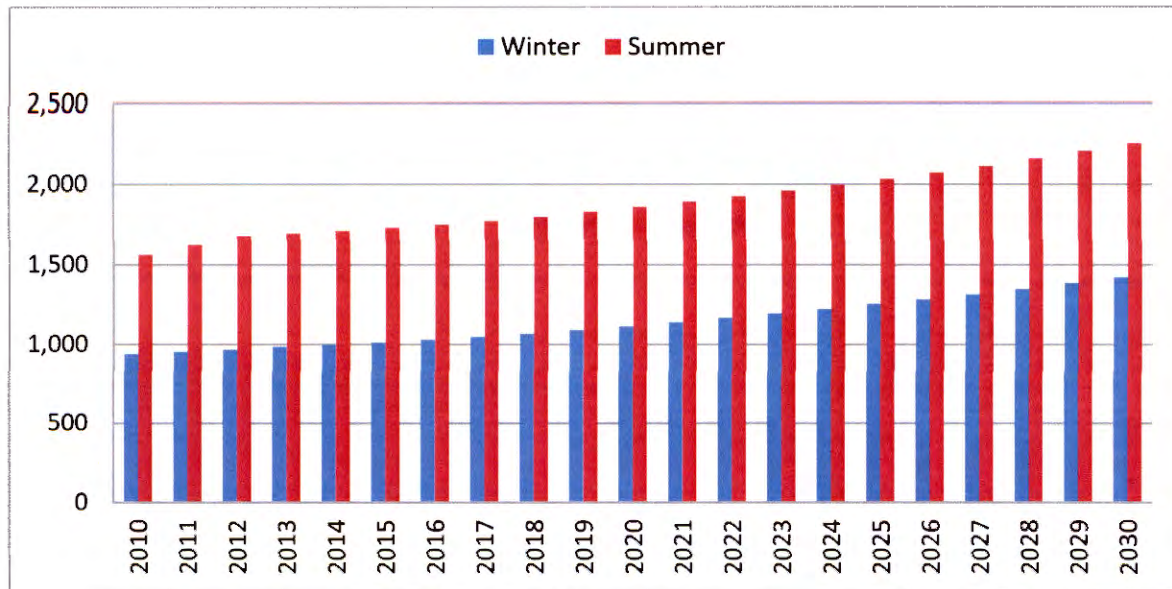
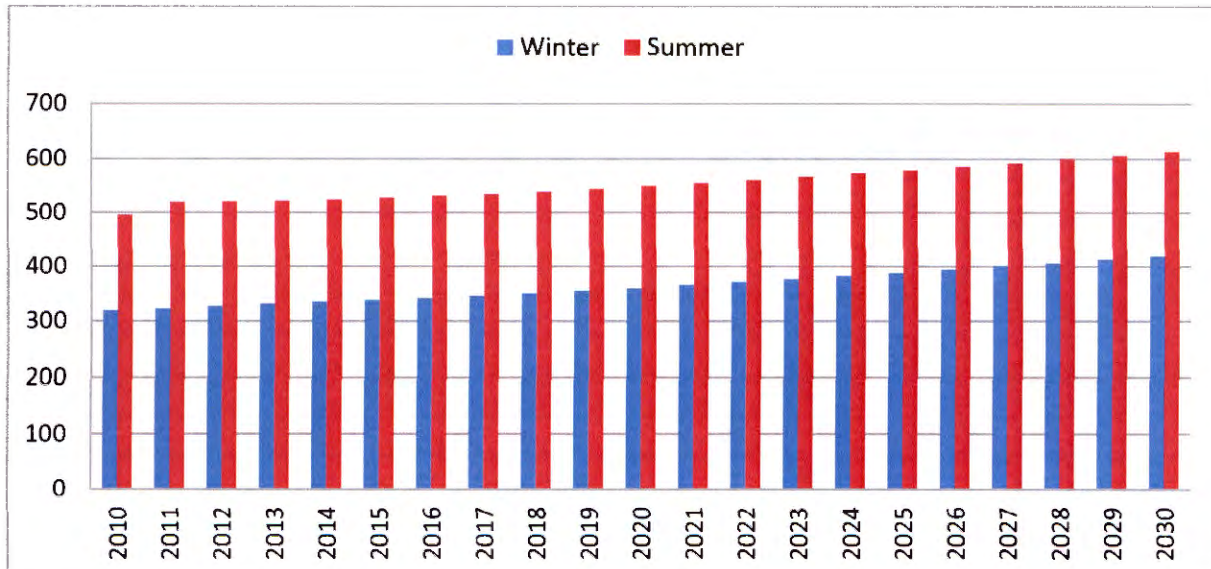
Forecast of Residential Coincident Peak Demand (MW)

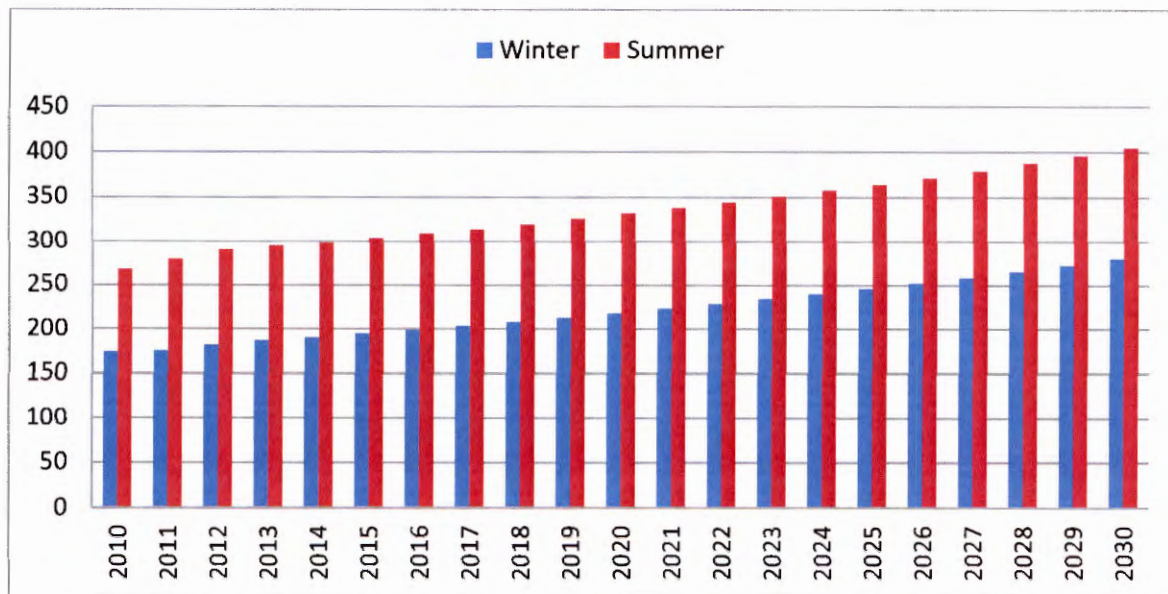
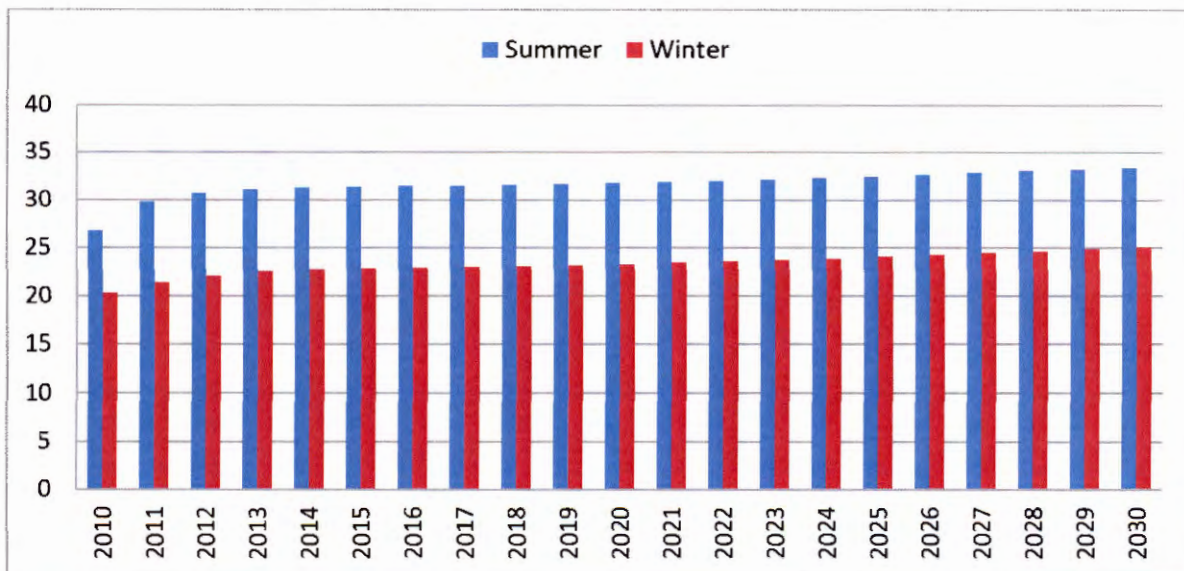


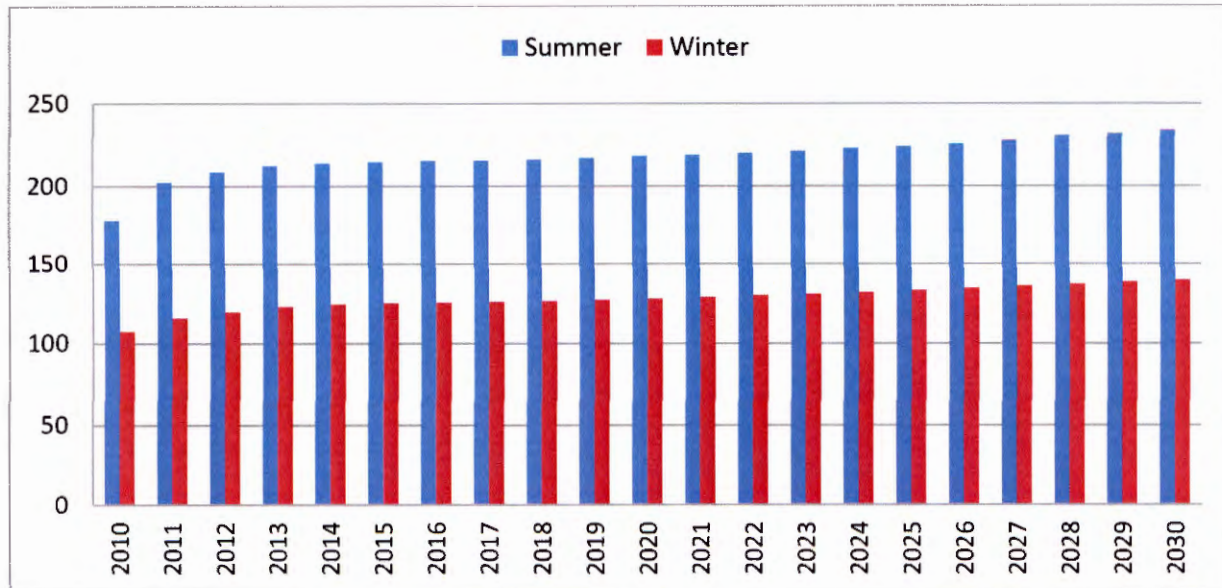
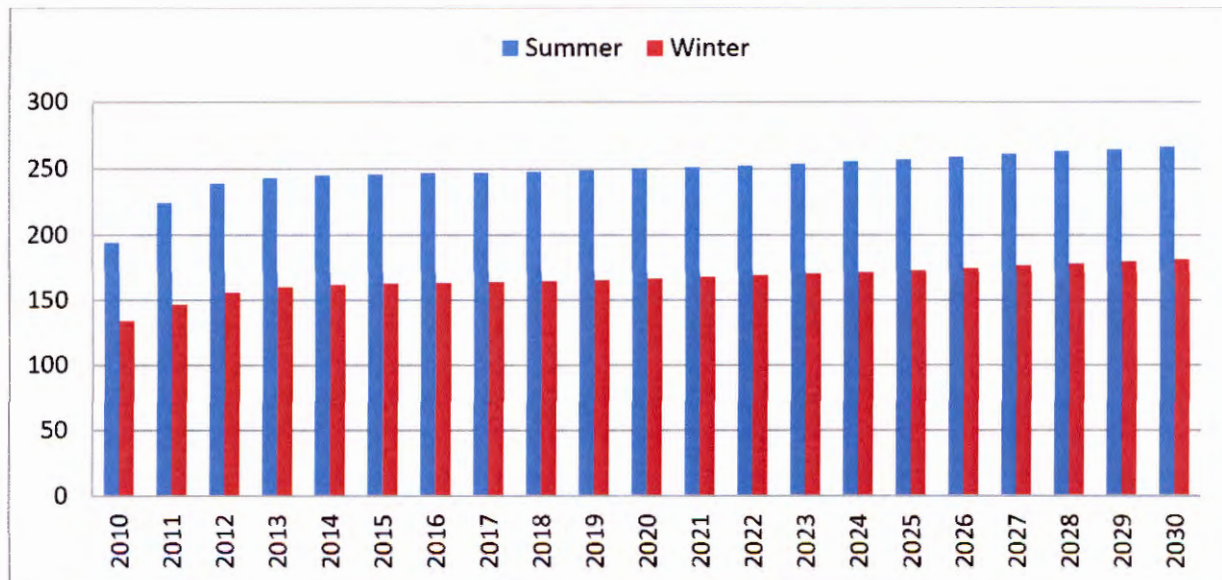
Forecast of Commercial SGS Coincident Peak Demand (MW)

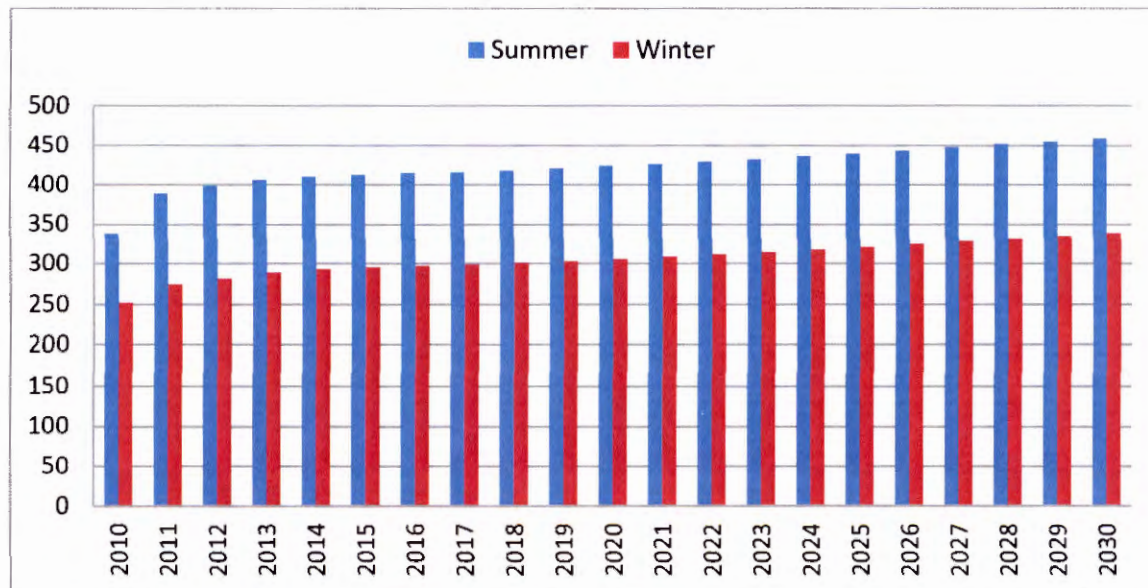
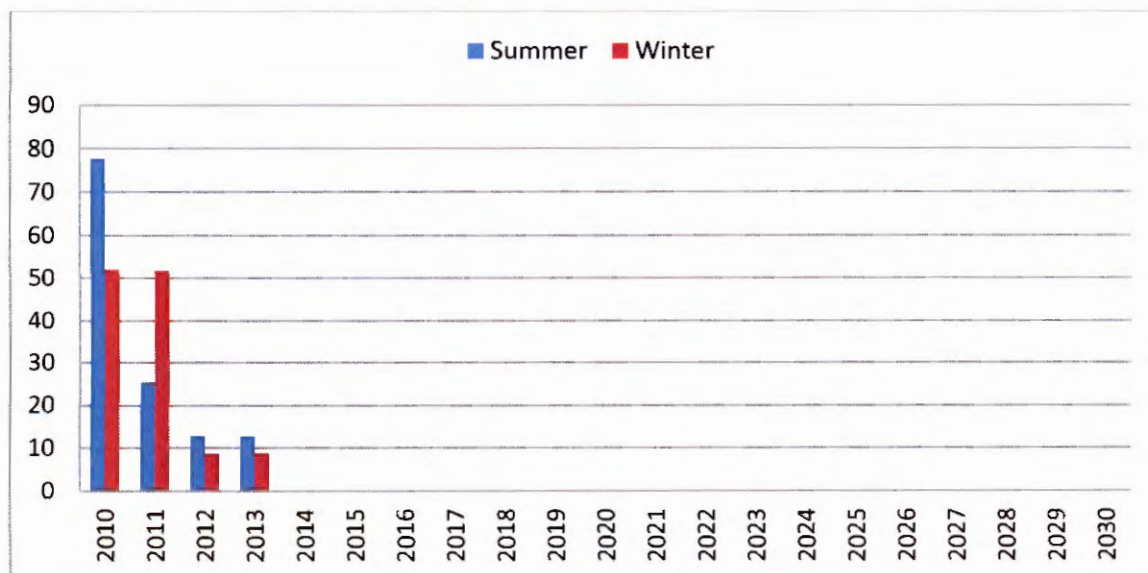


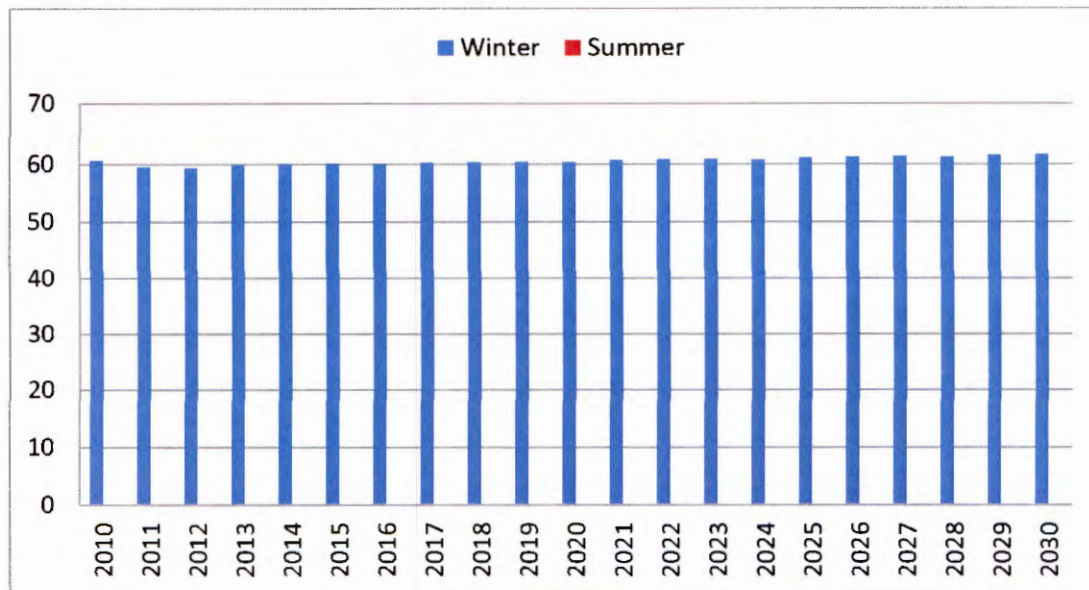
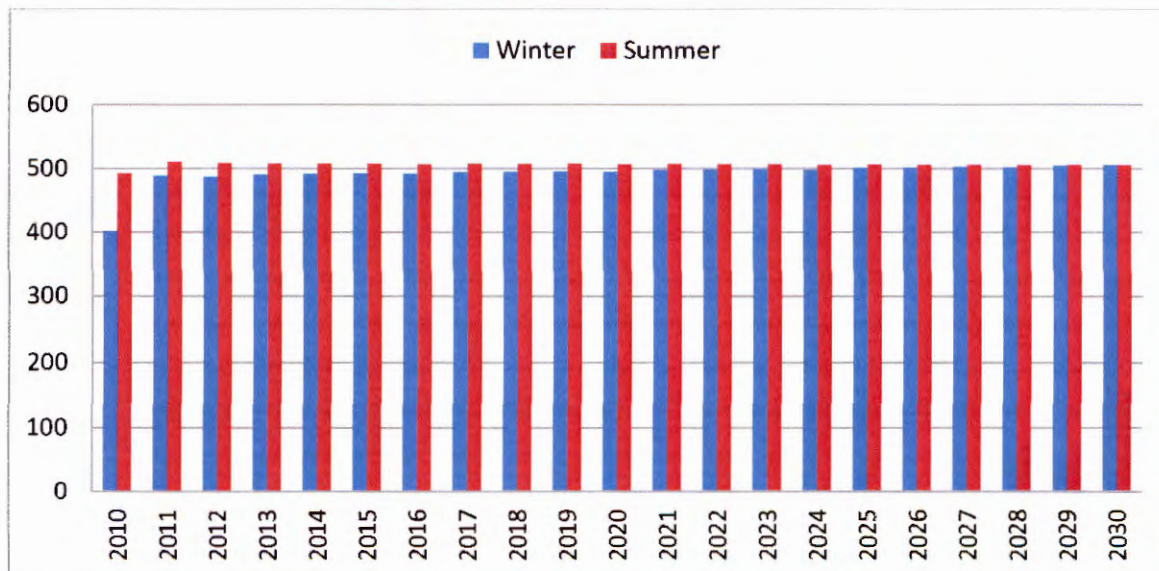
¹⁹ 4 CSR 240-22.030(8)(B), 4 CSR 240-22.030(8)(B)2

Forecast of Commercial LGS Coincident Peak Demand (MW)**Forecast of Commercial SPS Coincident Peak Demand (MW)**

Forecast of Commercial LPS Coincident Peak Demand (MW)**Forecast of Industrial SGS Coincident Peak Demand (MW)**

Forecast of Industrial LGS Coincident Peak Demand (MW)**Forecast of Industrial SPS Coincident Peak Demand (MW)**

Forecast of Industrial LPS Coincident Peak Demand (MW)**Forecast of Wholesale Coincident Peak Demand (MW)**

Forecast of Lighting Coincident Peak Demand (MW)**Forecast of Noranda Coincident Peak Demand (MW)**

Forecast of Class Demand at the Time of Summer System Peak (MW)

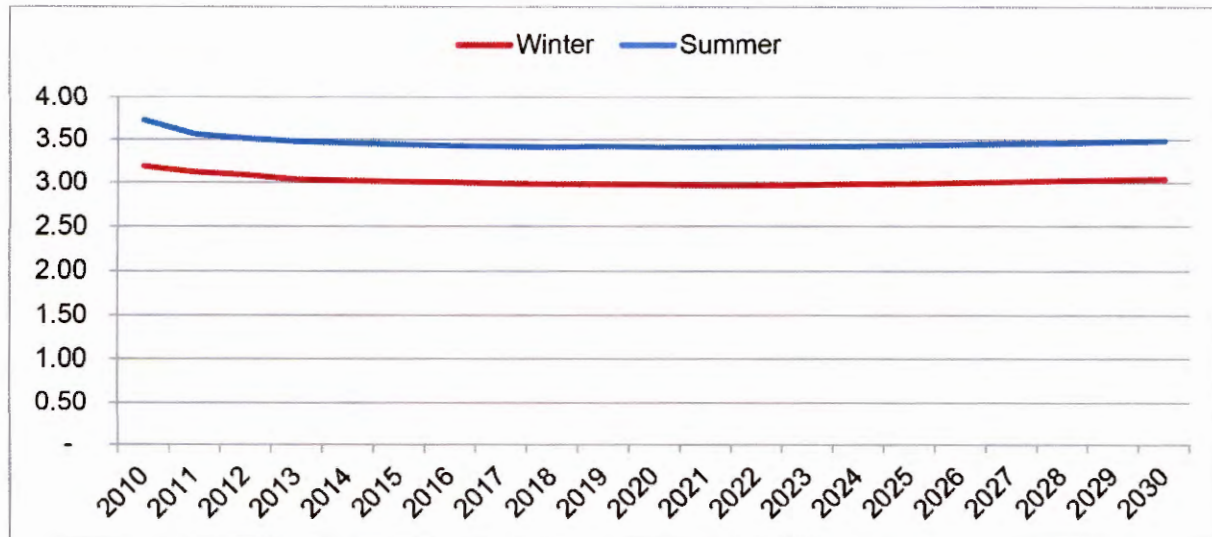
Year	RES	COM SGS	COM LGS	COM SPS	COM LPS	IND SGS	IND LGS	IND SPS	IND LPS	WS	Lighting	Noranda	Total
2010	3,889	834	1,564	496	268	26.8	178	194	338	77.62	-	493	8,359
2011	3,754	845	1,626	519	280	29.8	203	225	389	25.31	-	511	8,407
2012	3,774	846	1,682	521	290	30.7	209	239	399	12.65	-	509	8,512
2013	3,791	847	1,699	522	295	31.1	213	243	406	12.64	-	508	8,568
2014	3,814	848	1,714	524	299	31.3	215	245	410		-	508	8,610
2015	3,838	851	1,734	527	304	31.4	215	246	413		-	508	8,668
2016	3,861	854	1,754	532	309	31.5	216	247	415		-	507	8,727
2017	3,886	857	1,774	535	314	31.5	216	247	416		-	508	8,785
2018	3,912	861	1,800	539	320	31.6	217	248	418		-	508	8,855
2019	3,949	866	1,830	544	326	31.7	218	249	421		-	508	8,943
2020	3,972	870	1,860	550	332	31.8	219	250	424		-	507	9,018
2021	3,999	876	1,892	555	338	31.9	220	251	427		-	508	9,098
2022	4,025	881	1,926	561	345	32.0	221	252	430		-	507	9,180
2023	4,049	887	1,962	567	351	32.2	222	254	433		-	507	9,264
2024	4,070	894	2,000	574	358	32.3	224	256	437		-	506	9,351
2025	4,095	900	2,036	579	364	32.5	225	257	440		-	507	9,436
2026	4,118	907	2,075	586	372	32.7	227	259	444		-	506	9,526
2027	4,140	914	2,118	592	379	32.9	229	261	448		-	506	9,621
2028	4,160	922	2,165	600	388	33.1	231	263	453		-	505	9,720
2029	4,186	929	2,211	606	396	33.2	232	265	456		-	506	9,820
2030	4,210	936	2,258	613	405	33.4	234	267	460		-	506	9,922

Forecast of Class Demand at the Time of Winter System Peak (MW)

Year	RES	COM SGS	COM LGS	COM SPS	COM LPS	IND SGS	IND LGS	IND SPS	IND LPS	WS	Lighting	Noranda	Total
2010	3,311	525	941	319	174	20.3	108	134	252	51.96	60.64	402	6,299
2011	3,274	524	953	322	175	21.4	116	147	275	51.73	59.59	489	6,408
2012	3,284	522	968	327	182	22.0	120	156	282	8.62	59.40	487	6,416
2013	3,288	524	986	331	187	22.5	123	160	290	8.69	59.88	491	6,470
2014	3,313	526	1,000	334	191	22.7	125	162	294		60.09	492	6,519
2015	3,336	528	1,016	338	195	22.8	125	163	296		60.16	493	6,572
2016	3,365	531	1,032	342	199	22.9	126	163	298		60.06	492	6,630
2017	3,379	533	1,050	346	203	23.0	126	164	299		60.36	495	6,679
2018	3,398	536	1,070	350	208	23.1	127	165	301		60.42	495	6,733
2019	3,423	540	1,093	355	213	23.2	127	166	303		60.48	496	6,799
2020	3,447	545	1,117	360	218	23.3	128	167	306		60.42	495	6,867
2021	3,463	550	1,144	366	224	23.5	129	168	309		60.74	498	6,935
2022	3,485	555	1,171	371	229	23.6	130	169	312		60.84	499	7,006
2023	3,509	561	1,199	377	235	23.7	131	170	315		60.95	499	7,080
2024	3,537	566	1,226	382	240	23.9	132	172	318		60.83	498	7,156
2025	3,555	571	1,256	388	246	24.1	134	173	321		61.15	501	7,232
2026	3,578	577	1,286	394	252	24.3	135	175	325		61.25	502	7,311
2027	3,602	583	1,318	401	259	24.5	136	177	329		61.36	503	7,393
2028	3,629	588	1,351	407	266	24.6	137	178	332		61.26	502	7,478
2029	3,647	594	1,389	413	273	24.9	139	180	336		61.59	505	7,562
2030	3,670	601	1,425	420	281	25.0	140	182	339		61.71	506	7,650

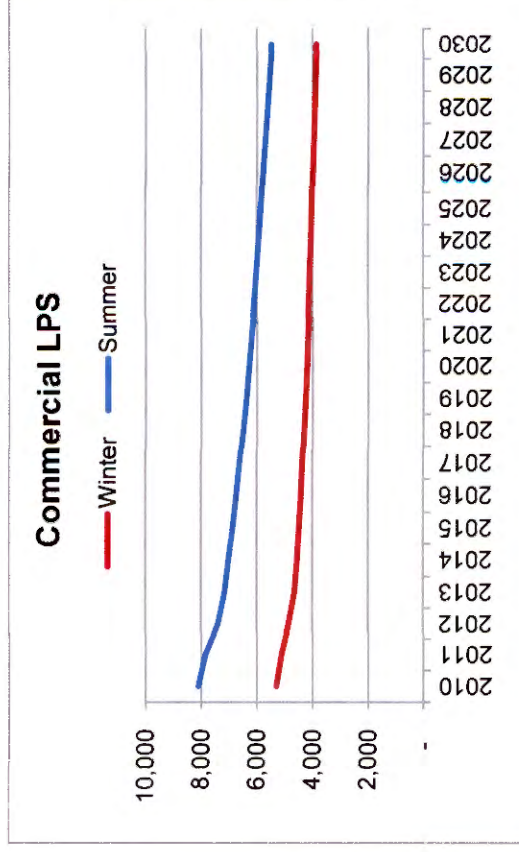
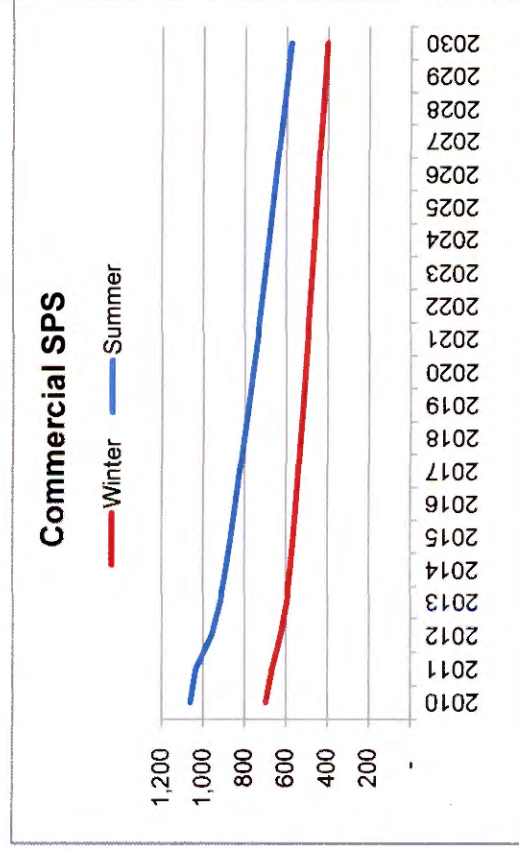
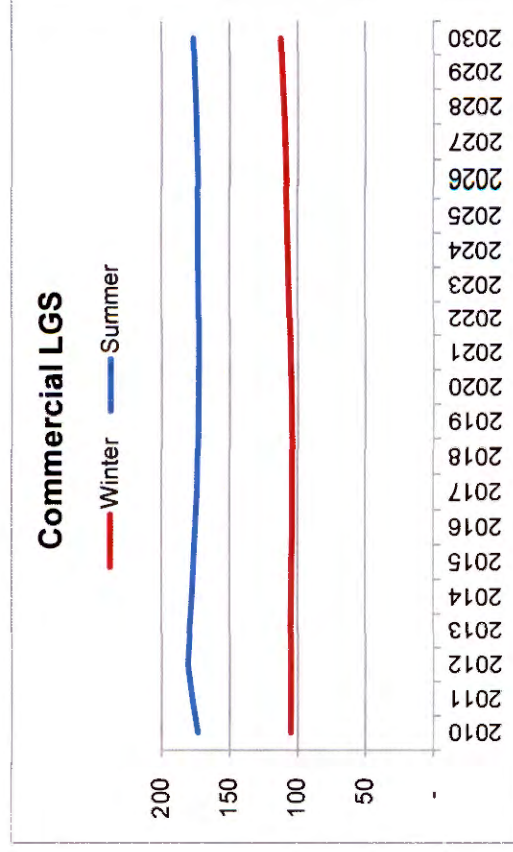
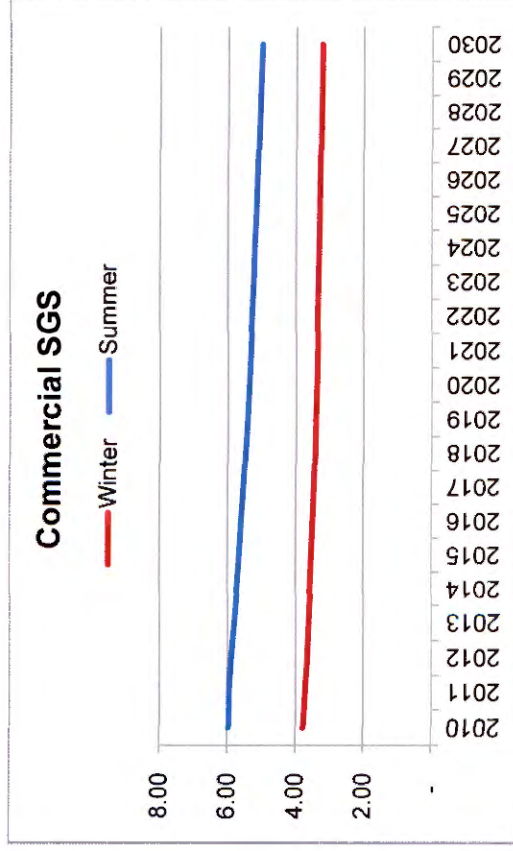
Forecasted Demand per Unit at the time of Summer and Winter System Peak for Planning Case²⁰

Forecast of Residential Coincident Demand per Unit (MW/Unit)

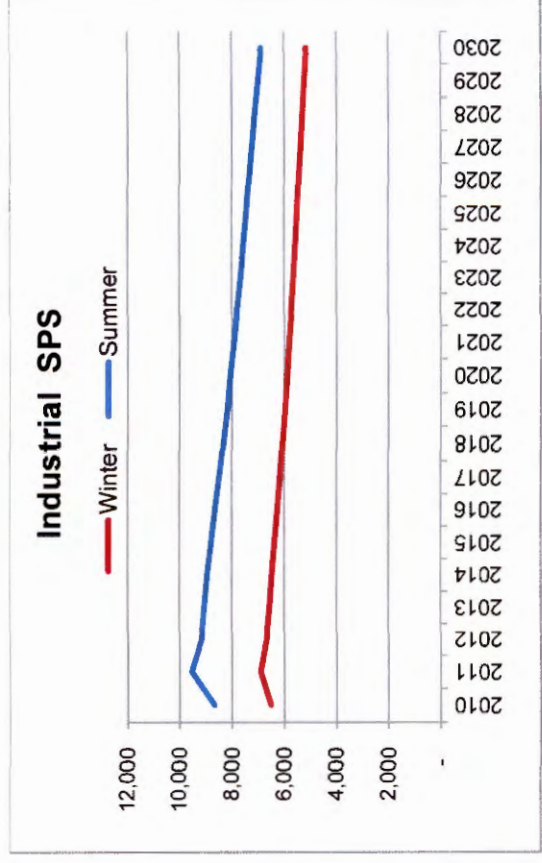
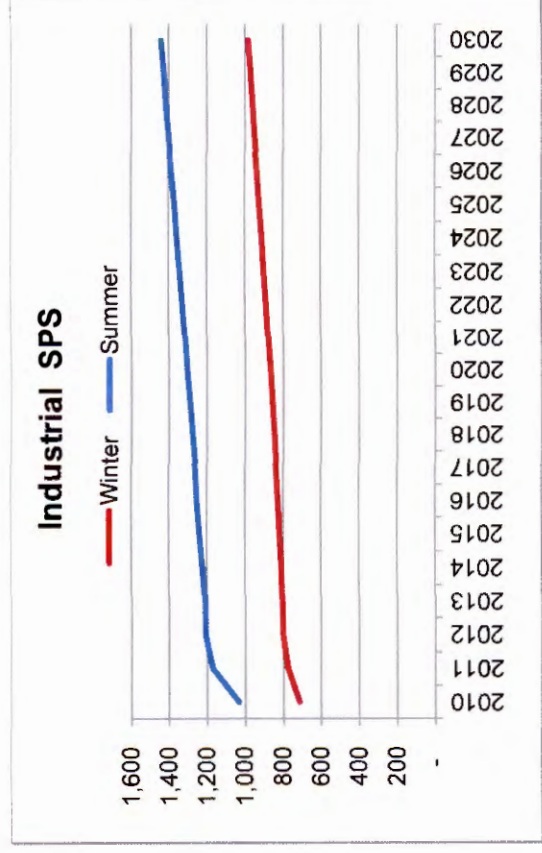
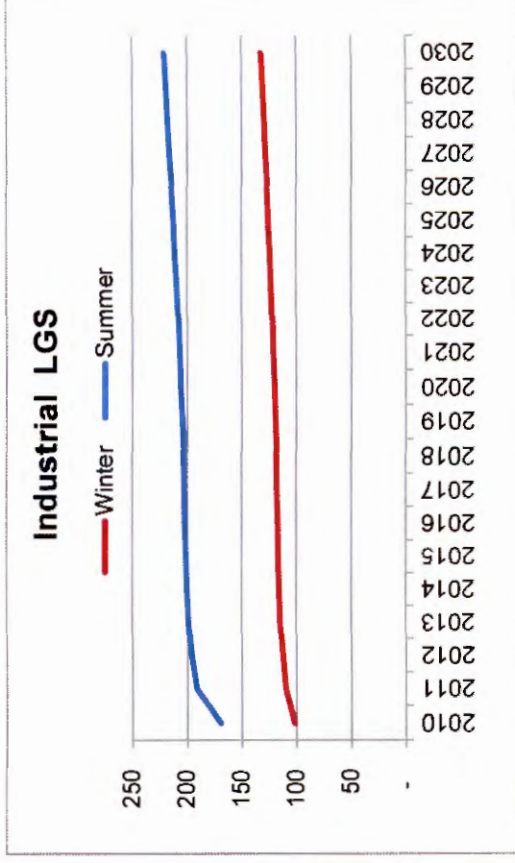
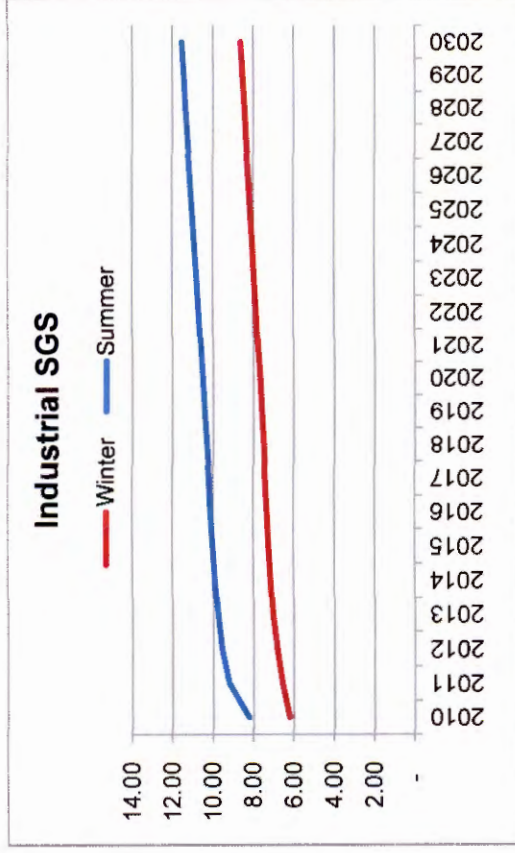


²⁰ 4 CSR 240-22.030(8)(B), 4 CSR 240-22.030(8)(B)2

Forecast of Coincident Demand per Unit for Commercial Classes (MW/Unit)



Forecast of Coincident Demand per Unit for Industrial Classes (MW/Unit)



Forecast of Summer Coincident Demand per Unit (MW/Unit)

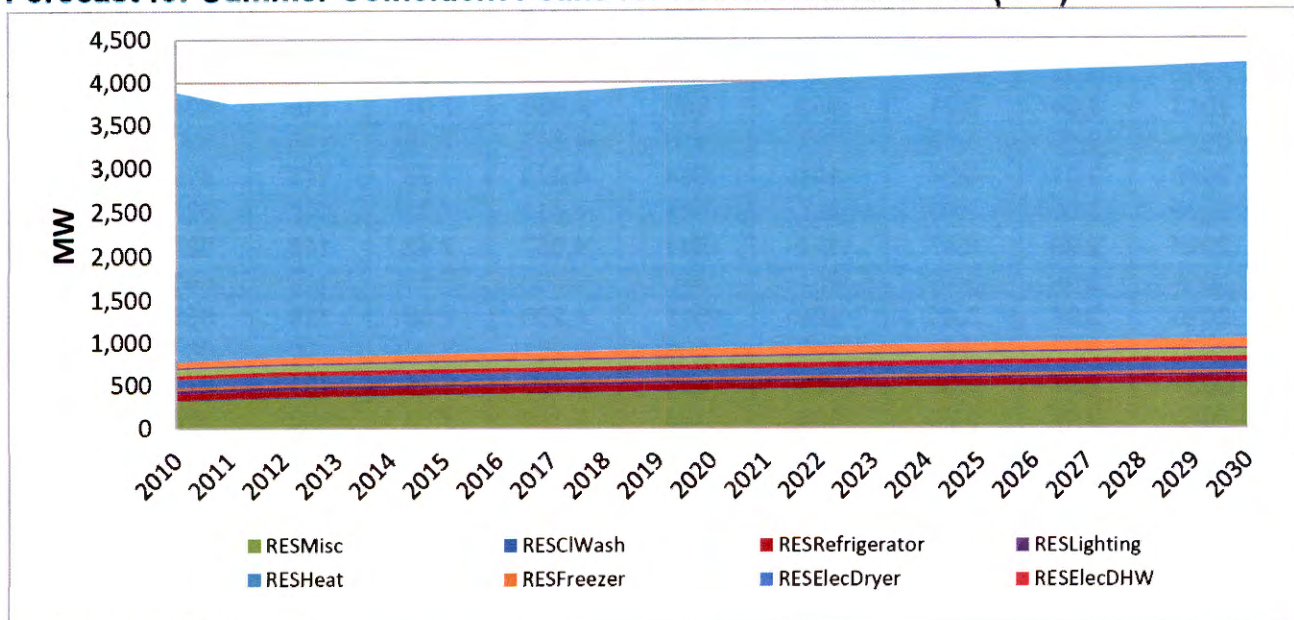
Forecast Year	Res	COM SGS	COM LGS	COM SPS	COM LPS	IND SGS	IND LGS	IND SPS	IND LPS
2010	3.73	5.96	173	1,062	8,107	8.22	169	1,035	8,680
2011	3.56	5.96	177	1,035	7,861	9.21	191	1,171	9,544
2012	3.51	5.88	181	959	7,390	9.56	196	1,211	9,177
2013	3.48	5.80	179	918	7,155	9.76	199	1,212	9,055
2014	3.46	5.73	178	890	7,013	9.90	200	1,225	8,949
2015	3.44	5.66	176	866	6,865	10.02	201	1,240	8,797
2016	3.43	5.60	175	844	6,739	10.12	202	1,254	8,652
2017	3.42	5.53	174	823	6,616	10.21	202	1,263	8,488
2018	3.41	5.47	173	802	6,498	10.30	203	1,276	8,334
2019	3.42	5.42	173	780	6,379	10.41	204	1,290	8,185
2020	3.41	5.37	173	760	6,284	10.52	206	1,305	8,065
2021	3.41	5.32	173	739	6,188	10.61	207	1,315	7,920
2022	3.42	5.28	173	719	6,098	10.71	208	1,328	7,791
2023	3.42	5.24	173	700	6,013	10.81	209	1,342	7,667
2024	3.43	5.20	173	682	5,934	10.92	211	1,358	7,565
2025	3.44	5.16	173	665	5,855	11.01	212	1,371	7,450
2026	3.44	5.13	174	647	5,777	11.13	214	1,386	7,345
2027	3.45	5.09	174	629	5,700	11.24	216	1,402	7,243
2028	3.46	5.07	175	612	5,623	11.36	218	1,418	7,134
2029	3.48	5.03	176	593	5,536	11.44	219	1,428	6,992
2030	3.49	5.00	176	577	5,466	11.54	221	1,442	6,880

Forecast of Winter Coincident Demand per Unit (MW/Unit)

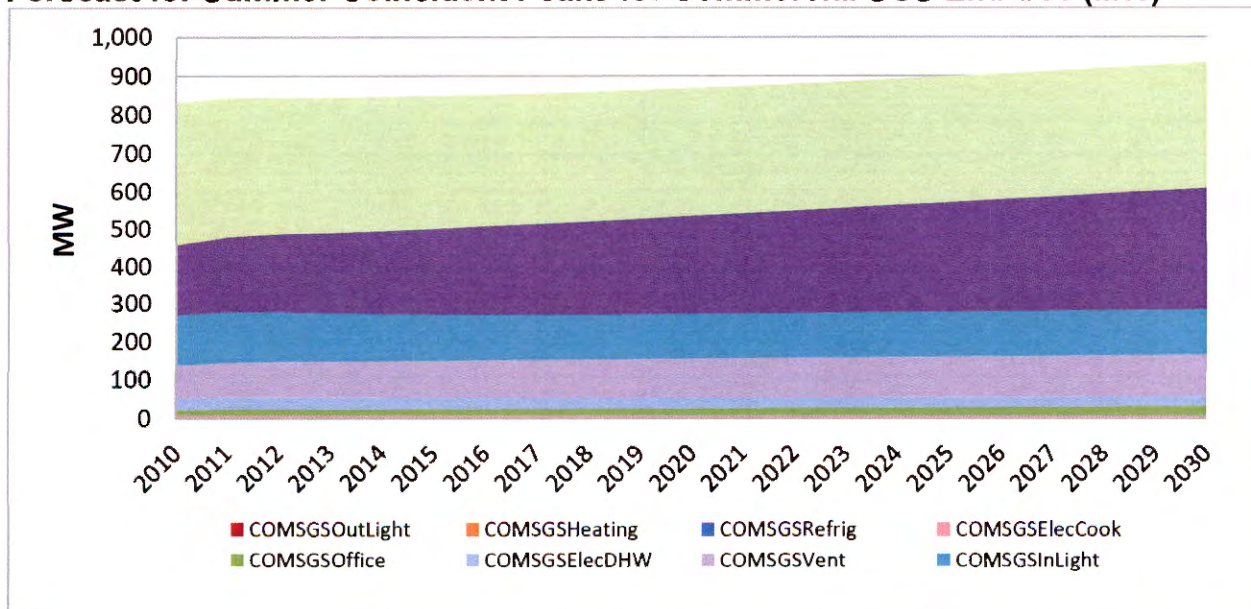
Forecast Year	RES	Res	COM SGS	COM LGS	COM SPS	COM LPS	IND SGS	IND LGS	IND SPS
2010	3.19	3.78	105	698	5,305	6.22	102	715	6,513
2011	3.12	3.72	105	665	5,118	6.59	110	773	6,900
2012	3.09	3.65	105	626	4,853	6.83	113	801	6,683
2013	3.04	3.61	105	595	4,638	7.04	115	804	6,554
2014	3.02	3.58	105	578	4,542	7.16	116	808	6,472
2015	3.01	3.54	104	564	4,478	7.25	117	818	6,376
2016	3.00	3.50	104	551	4,412	7.33	117	827	6,266
2017	2.99	3.47	104	541	4,357	7.42	118	837	6,166
2018	2.98	3.43	104	529	4,303	7.50	119	846	6,067
2019	2.97	3.41	104	517	4,250	7.59	119	856	5,968
2020	2.97	3.39	105	506	4,201	7.67	120	867	5,880
2021	2.97	3.37	105	495	4,165	7.78	121	878	5,801
2022	2.97	3.35	106	484	4,126	7.87	122	888	5,718
2023	2.97	3.34	107	474	4,090	7.96	123	899	5,639
2024	2.98	3.32	107	463	4,050	8.04	124	910	5,563
2025	2.99	3.30	108	454	4,020	8.15	126	923	5,501
2026	3.00	3.29	108	444	3,990	8.25	127	936	5,439
2027	3.01	3.27	109	434	3,957	8.35	129	949	5,375
2028	3.03	3.26	110	423	3,920	8.44	130	960	5,298
2029	3.03	3.24	111	413	3,885	8.54	131	971	5,216
2030	3.04	3.23	112	403	3,850	8.63	132	982	5,141

Forecasted Summer and Non-summer Coincident Peak for various Classes by End Use²¹

Forecast for Summer Coincident Peaks for Residential End Use (MW)

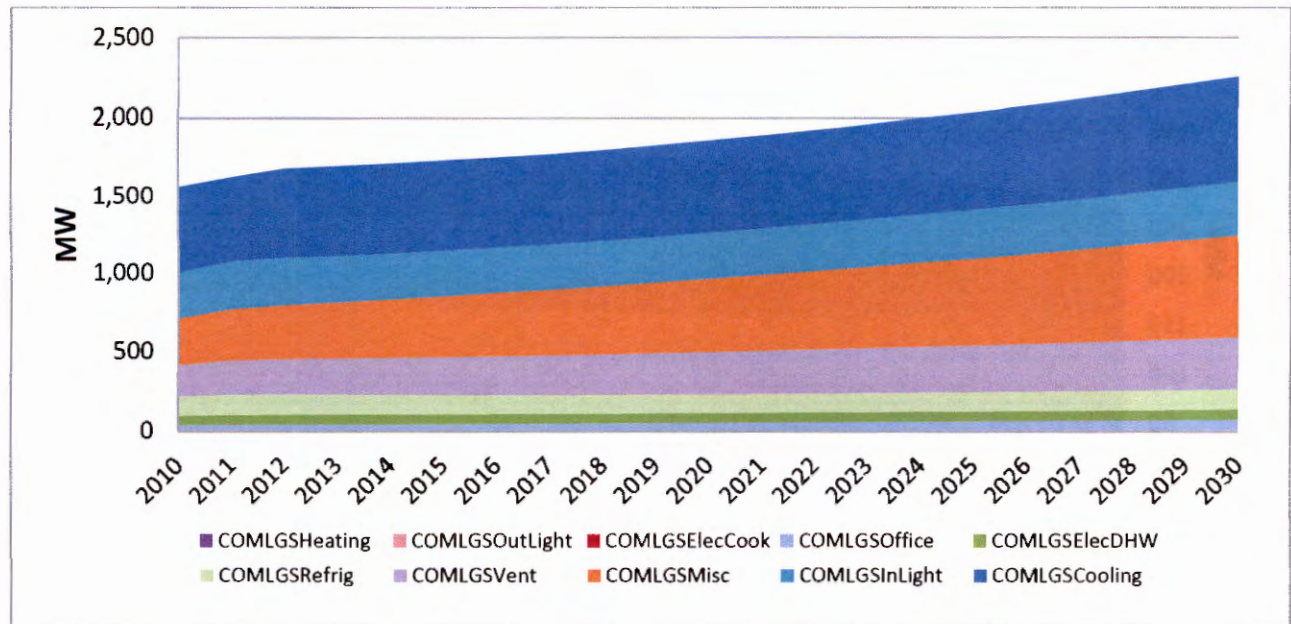


Forecast for Summer Coincident Peaks for Commercial SGS End Use (MW)

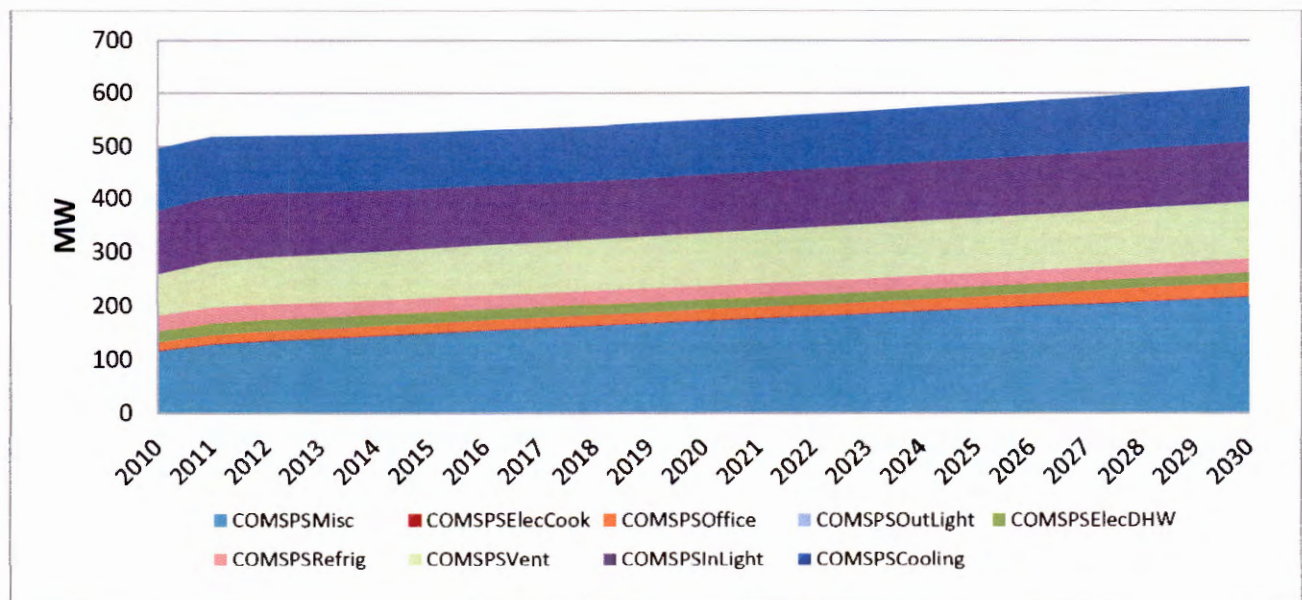


²¹ 4 CSR 240-22.030(8)(B), 4 CSR 240-22.030(8)(B)2

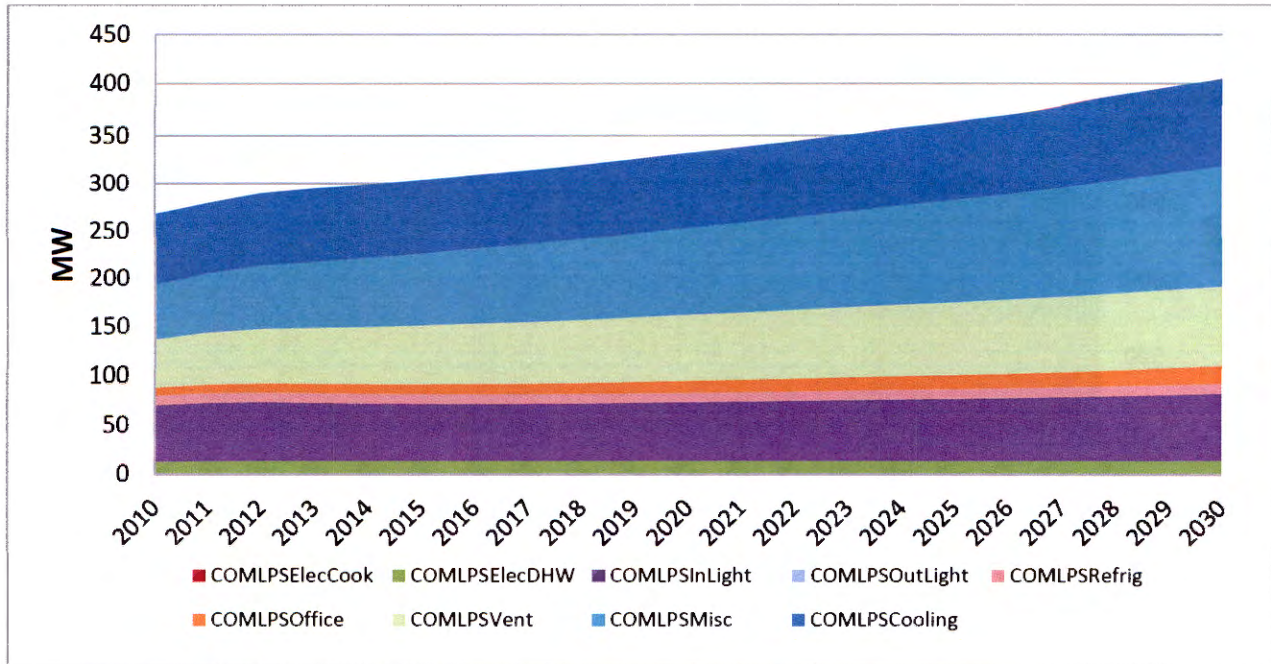
Forecast for Summer Coincident Peak for Commercial LGS End Use (MW)



Forecast for Summer Coincident Peak for Commercial SPS End Use (MW)



Forecast for Summer Coincident Peak for Commercial LPS End Use (MW)



Forecast for Summer Coincident Peaks for Residential End Uses (MW)

Year	Cl Wash	Refrig	Misc	Lighting	Heating	Freezer	Dryer	DHW	Cooker	Dishwasher	Cooling	TV	Total
2010	9.56	74.83	321	41.39	1.66	26.99	96.61	47.96	67.38	22.08	3,115	65	3,889
2011	9.41	75.93	342	40.85	1.76	27.10	98.15	49.65	68.98	22.30	2,951	68	3,754
2012	9.31	77.52	355	40.72	1.74	27.41	100.28	51.78	71.21	22.69	2,945	71	3,774
2013	9.04	77.53	368	36.21	1.74	27.20	100.28	52.76	71.53	22.63	2,951	74	3,791
2014	8.81	77.74	380	34.53	1.75	27.10	100.50	53.84	72.16	22.64	2,960	76	3,814
2015	8.62	77.94	390	33.52	1.76	27.04	100.63	54.83	72.73	22.64	2,970	78	3,838
2016	8.47	78.21	401	32.92	1.78	27.05	100.84	55.87	73.52	22.68	2,978	81	3,861
2017	8.34	78.21	410	32.15	1.78	26.99	100.63	56.58	73.57	22.64	2,993	82	3,886
2018	8.26	78.33	419	31.65	1.78	27.00	100.59	57.34	73.92	22.65	3,007	85	3,912
2019	8.24	78.60	429	31.31	1.79	27.09	100.76	58.14	74.39	22.70	3,031	87	3,949
2020	8.25	78.81	439	30.23	1.81	27.19	101.02	58.95	75.07	22.76	3,040	89	3,972
2021	8.24	78.81	447	29.48	1.80	27.22	101.03	59.48	75.10	22.76	3,057	91	3,999
2022	8.26	78.90	456	29.00	1.81	27.27	101.23	60.08	75.42	22.79	3,071	93	4,025
2023	8.27	78.96	465	28.63	1.81	27.32	101.46	60.62	75.70	22.84	3,083	95	4,049
2024	8.30	79.12	474	28.45	1.83	27.40	101.89	61.23	76.28	22.93	3,092	97	4,070
2025	8.30	79.08	482	28.06	1.82	27.40	102.07	61.57	76.21	22.99	3,107	99	4,095
2026	8.31	79.17	490	27.84	1.83	27.44	102.45	62.01	76.45	23.09	3,118	101	4,118
2027	8.33	79.28	498	27.63	1.83	27.49	102.86	62.44	76.69	23.22	3,129	103	4,140
2028	8.35	79.51	507	27.54	1.84	27.57	103.44	62.99	77.24	23.38	3,136	105	4,160
2029	8.36	79.58	513	27.20	1.84	27.59	103.76	63.31	77.14	23.50	3,154	107	4,186
2030	8.38	79.76	519	27.00	1.84	27.66	104.25	63.75	77.38	23.65	3,168	109	4,210

Forecast for Summer Coincident Peaks for Commercial SGS End Uses (MW)

Year	Refrig.	Outdoor Light	Office	Misc	Indoor Light	Heating	Electric DHW	Electric Cook	Cooling	Vent	Total
2010	4.13	-	14.27	187	132	0.07	29.97	4.56	376.8	85.21	834
2011	4.20	-	15.21	202	133	0.08	30.88	4.70	364.6	90.06	845
2012	4.13	-	15.68	210	130	0.07	30.78	4.69	357.9	92.10	846
2013	4.03	-	16.00	216	127	0.07	30.34	4.63	355.5	92.91	847
2014	3.93	-	16.36	223	124	0.07	29.97	4.59	352.2	93.87	848
2015	3.83	-	16.71	230	122	0.07	29.58	4.55	348.7	95.21	851
2016	3.76	-	17.10	238	121	0.07	29.24	4.52	344.7	96.58	854
2017	3.68	-	17.44	244	119	0.07	28.81	4.48	341.8	97.55	857
2018	3.62	-	17.83	250	118	0.07	28.46	4.45	339.3	98.71	861
2019	3.57	-	18.24	257	118	0.07	28.14	4.42	336.4	99.88	866
2020	3.53	-	18.69	263	118	0.07	27.85	4.40	333.4	101.11	870
2021	3.49	-	19.10	269	118	0.06	27.49	4.37	332.1	102.05	876
2022	3.46	-	19.55	275	118	0.06	27.20	4.35	330.6	103.11	881
2023	3.44	-	20.03	282	118	0.06	26.92	4.33	329.4	103.96	887
2024	3.43	-	20.54	288	118	0.06	26.68	4.32	328.0	104.87	894
2025	3.41	-	21.01	294	118	0.06	26.35	4.30	327.5	105.43	900
2026	3.40	-	21.53	301	118	0.06	26.06	4.28	326.9	106.07	907
2027	3.40	-	22.08	307	118	0.06	25.78	4.27	326.5	106.70	914
2028	3.40	-	22.67	314	119	0.06	25.55	4.26	325.9	107.52	922
2029	3.40	-	23.22	320	119	0.06	25.25	4.25	326.1	108.05	929
2030	3.40	-	23.81	326	119	0.06	25.37	4.27	325.8	108.69	936

Forecast for Summer Coincident Peaks for Commercial LGS End Uses (MW)

Year	Cooling	Electric Cook	Electric DHW	Heating	Indoor Light	Misc	Office	Outdoor Light	Refrig	Vent	Total
2010	559	7.36	58.88	0.02	297	294	30.70	-	122	195	1,564
2011	551	7.78	62.24	0.02	308	325	33.57	-	128	211	1,626
2012	584	7.86	62.76	0.02	305	342	35.02	-	127	219	1,682
2013	587	7.86	62.63	0.02	301	356	36.17	-	126	223	1,699
2014	587	7.87	62.50	0.02	297	371	37.35	-	124	228	1,714
2015	587	7.88	62.37	0.02	295	387	38.58	-	122	234	1,734
2016	586	7.91	62.24	0.02	294	404	39.86	-	121	239	1,754
2017	587	7.91	61.97	0.02	294	418	41.07	-	120	244	1,774
2018	589	7.95	61.93	0.02	295	434	42.48	-	119	250	1,800
2019	591	8.00	61.99	0.02	298	451	44.01	-	119	256	1,830
2020	593	8.06	62.10	0.02	302	468	45.63	-	119	263	1,860
2021	598	8.11	62.07	0.02	305	485	47.21	-	119	268	1,892
2022	602	8.17	62.19	0.02	309	502	48.94	-	120	275	1,926
2023	608	8.24	62.32	0.02	313	519	50.76	-	120	280	1,962
2024	613	8.32	62.54	0.02	317	539	52.73	-	121	286	2,000
2025	619	8.38	62.51	0.02	321	557	54.59	-	122	291	2,036
2026	626	8.45	62.64	0.02	325	576	56.67	-	124	297	2,075
2027	633	8.54	62.80	0.02	330	596	58.87	-	125	303	2,118
2028	641	8.65	63.10	0.02	336	618	61.31	-	127	309	2,165
2029	650	8.74	63.26	0.02	341	639	63.71	-	129	315	2,211
2030	659	8.90	64.43	0.02	347	660	66.24	-	131	322	2,258

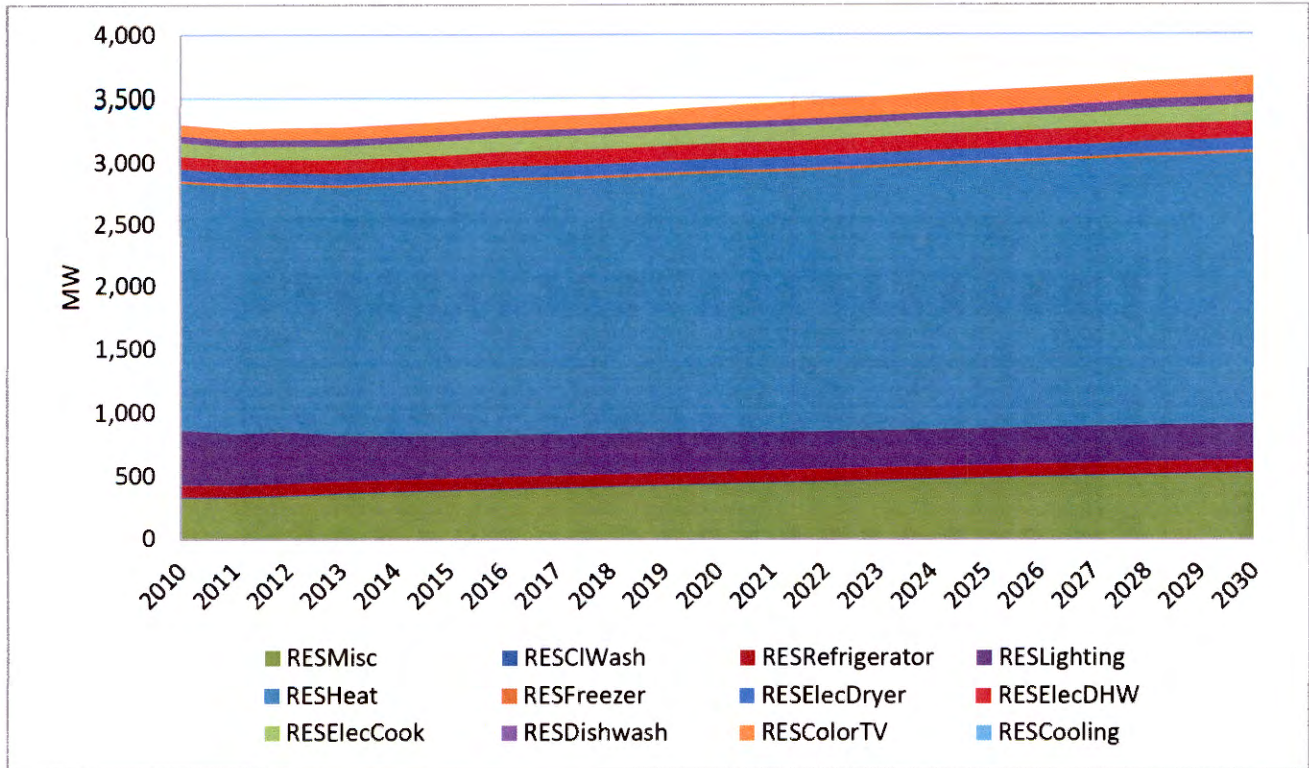
Forecast for Summer Coincident Peaks for Commercial SPS End Uses (MW)

Year	Cooling	Electric Cook	Electric DHW	Indoor Light	Misc	Office	Outdoor Light	Refrig	Vent	Total
2010	118.64	1.45	19.94	118.13	116.17	14.63	-	28.87	78.28	496.12
2011	115.39	1.53	21.03	122.31	128.17	15.95	-	30.08	84.69	519.16
2012	109.95	1.54	21.09	120.44	134.12	16.55	-	29.80	87.14	520.63
2013	109.49	1.52	20.85	117.54	138.34	16.93	-	29.11	88.16	521.94
2014	108.70	1.51	20.64	115.17	143.19	17.35	-	28.46	89.26	524.28
2015	107.84	1.50	20.41	113.43	147.99	17.76	-	27.83	90.71	527.47
2016	106.80	1.49	20.21	112.33	153.10	18.21	-	27.32	92.18	531.65
2017	106.08	1.48	19.95	111.26	157.34	18.60	-	26.81	93.29	534.81
2018	105.54	1.48	19.75	110.68	161.80	19.05	-	26.42	94.59	539.31
2019	104.85	1.47	19.57	110.67	166.36	19.54	-	26.11	95.92	544.49
2020	104.14	1.47	19.41	110.84	170.92	20.06	-	25.89	97.31	550.02
2021	103.94	1.46	19.20	110.80	175.14	20.54	-	25.65	98.42	555.16
2022	103.69	1.46	19.04	111.03	179.44	21.08	-	25.50	99.66	560.89
2023	103.55	1.45	18.88	111.35	183.94	21.63	-	25.40	100.70	566.91
2024	103.34	1.45	18.76	111.86	188.72	22.24	-	25.38	101.82	573.57
2025	103.41	1.45	18.56	111.99	193.09	22.80	-	25.29	102.58	579.18
2026	103.45	1.45	18.41	112.34	197.77	23.42	-	25.28	103.44	585.55
2027	103.56	1.44	18.25	112.75	202.46	24.07	-	25.31	104.29	592.15
2028	103.63	1.45	18.13	113.41	207.49	24.77	-	25.41	105.35	599.63
2029	103.93	1.44	17.96	113.82	211.89	25.44	-	25.46	106.12	606.06
2030	104.08	1.45	18.08	114.38	216.51	26.15	-	25.52	107.00	613.17

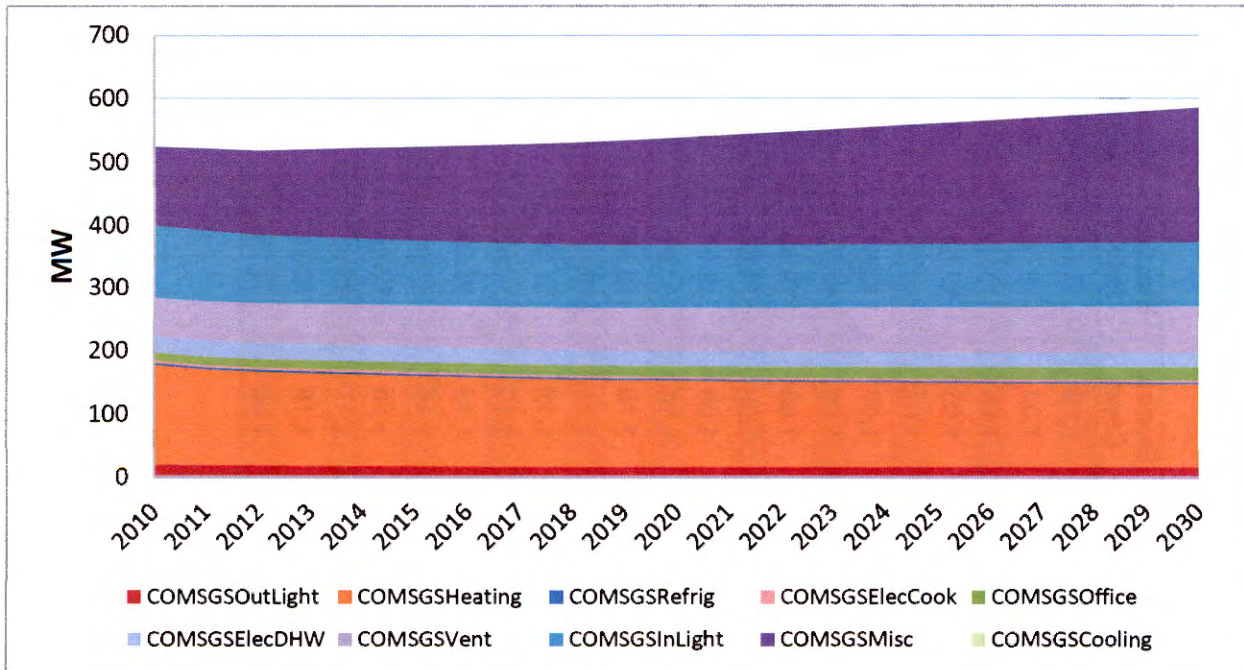
Forecast for Summer Coincident Peaks for Commercial LPS End Uses (MW)

Year	Cooling	Electric Cook	Electric DHW	Indoor Light	Misc	Office	Outdoor Light	Refrig	Vent	Total
2010	75	0.98	11.74	58	56	8.07	-	9.43	49	268
2011	74	1.03	12.30	60	61	8.75	-	9.76	53	280
2012	76	1.06	12.60	60	66	9.27	-	9.87	55	290
2013	77	1.06	12.63	60	69	9.62	-	9.78	57	295
2014	77	1.07	12.61	59	72	9.94	-	9.65	58	299
2015	77	1.07	12.61	59	75	10.28	-	9.54	60	304
2016	78	1.08	12.61	59	78	10.65	-	9.46	61	309
2017	78	1.08	12.58	59	81	10.99	-	9.38	63	314
2018	78	1.08	12.58	59	84	11.38	-	9.34	64	320
2019	78	1.09	12.60	60	88	11.79	-	9.33	66	326
2020	79	1.10	12.61	60	91	12.22	-	9.34	67	332
2021	79	1.10	12.59	61	94	12.63	-	9.33	69	338
2022	80	1.11	12.60	61	97	13.07	-	9.36	70	345
2023	80	1.12	12.60	62	100	13.54	-	9.41	71	351
2024	81	1.13	12.63	63	104	14.04	-	9.48	73	358
2025	82	1.13	12.60	64	107	14.52	-	9.53	74	364
2026	82	1.14	12.61	64	111	15.05	-	9.61	75	372
2027	83	1.15	12.63	65	115	15.62	-	9.72	77	379
2028	84	1.17	12.68	66	119	16.25	-	9.86	78	388
2029	86	1.18	12.71	67	123	16.88	-	10.00	80	396
2030	87	1.20	12.94	69	127	17.55	-	10.13	81	405

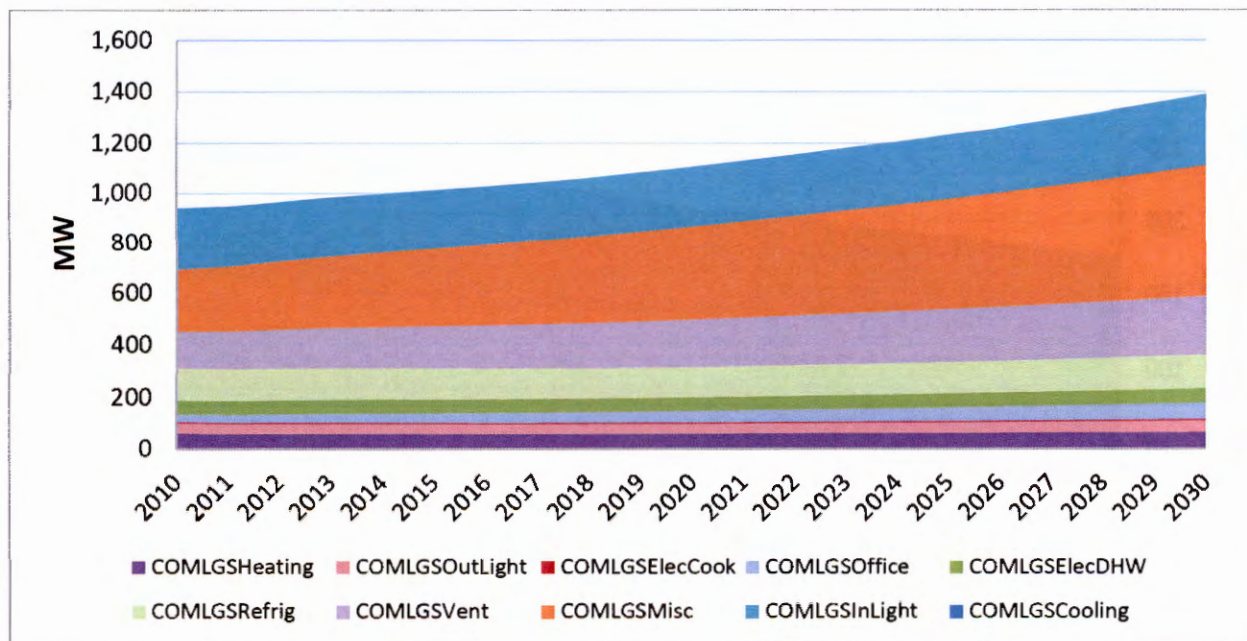
Forecast for Winter Coincident Peaks for Residential End Uses (MW)



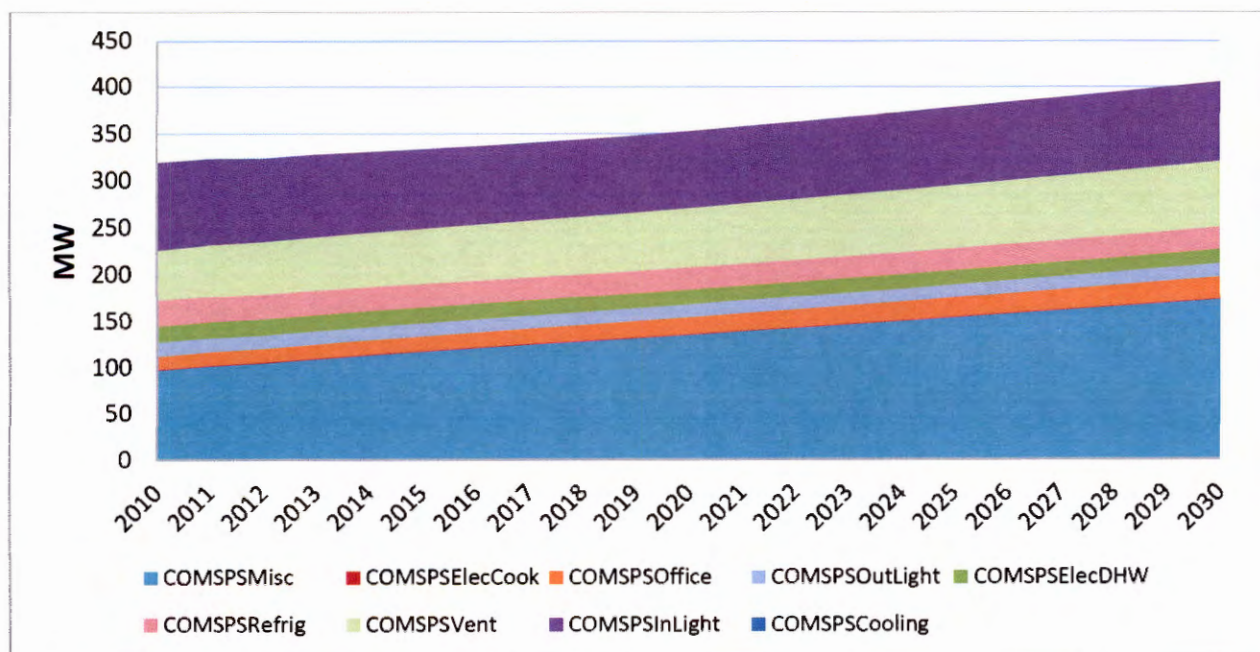
Forecast for Winter Coincident Peaks for Commercial SGS End Uses (MW)



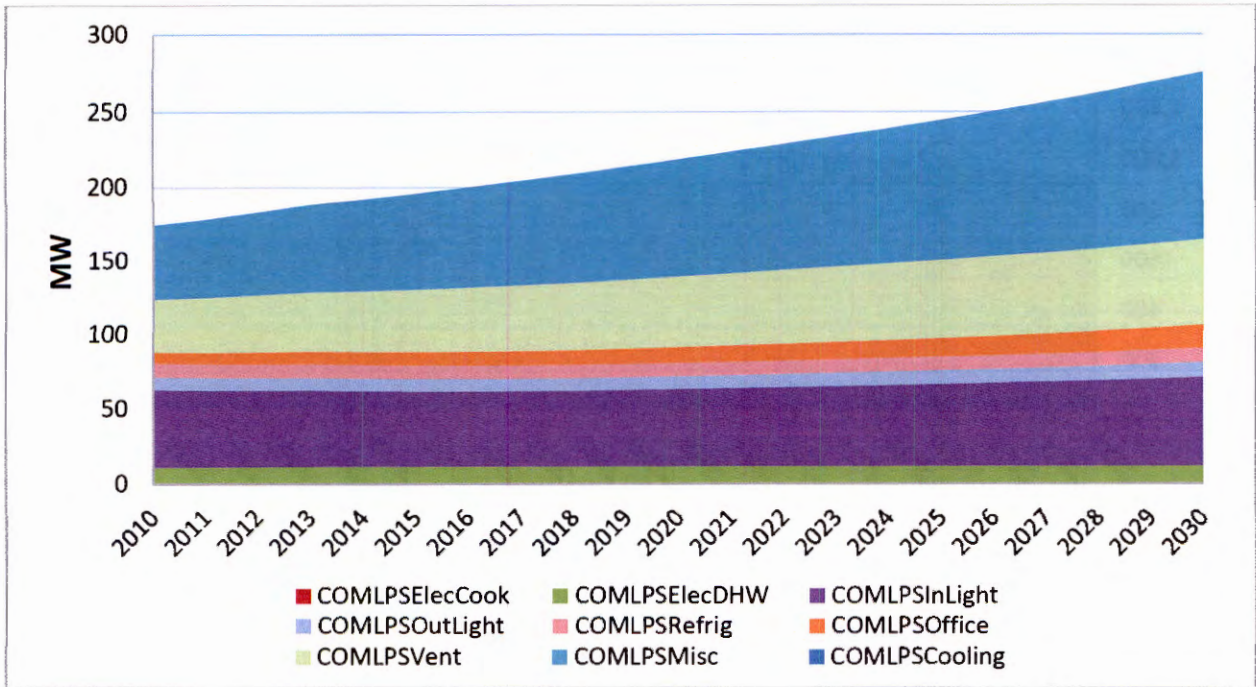
Forecast for Winter Coincident Peaks for Commercial LGS End Uses (MW)



Forecast for Commercial SPS Winter Coincident Peaks by End Uses (MW)



Forecast for Winter Coincident Peaks for Commercial LPS End Uses (MW)



Forecast for Winter Coincident Peaks for Residential End Uses (MW)

Year	Cl Wash	Refrig	Misc	Lighting	Heating	Freezer	Dryer	DHW	Cooker	Dish washer	Cooling	TV	Total
2010	9.35	95.13	330	439	1,962	20.63	95.38	105	108	57.08	-	90	3,311
2011	8.72	91.44	333	411	1,967	19.62	91.77	102	105	54.63	-	89	3,274
2012	8.63	93.30	346	409	1,948	19.83	93.72	107	108	55.55	-	94	3,284
2013	8.45	94.18	362	367	1,968	19.86	94.59	110	110	55.91	-	98	3,288
2014	8.27	94.76	375	351	1,988	19.86	95.12	112	111	56.12	-	101	3,313
2015	8.10	95.15	386	342	2,002	19.84	95.40	115	112	56.22	-	104	3,336
2016	7.96	95.46	397	335	2,020	19.84	95.57	117	113	56.31	-	107	3,365
2017	7.86	95.81	407	329	2,025	19.88	95.73	119	114	56.42	-	110	3,379
2018	7.80	96.06	416	324	2,033	19.91	95.79	121	114	56.49	-	113	3,398
2019	7.79	96.49	427	321	2,044	19.99	96.05	122	115	56.67	-	116	3,423
2020	7.80	96.80	437	310	2,062	20.07	96.35	124	116	56.86	-	119	3,447
2021	7.83	97.23	447	304	2,068	20.18	96.78	126	117	57.10	-	122	3,463
2022	7.86	97.54	457	299	2,078	20.27	97.18	127	118	57.31	-	125	3,485
2023	7.89	97.84	467	296	2,089	20.35	97.63	129	118	57.55	-	128	3,509
2024	7.91	98.02	476	294	2,104	20.40	98.03	130	119	57.79	-	131	3,537
2025	7.95	98.41	486	292	2,109	20.50	98.64	131	120	58.18	-	134	3,555
2026	7.98	98.72	495	290	2,118	20.57	99.21	133	120	58.57	-	137	3,578
2027	8.01	99.07	504	288	2,127	20.65	99.81	134	121	59.01	-	140	3,602
2028	8.03	99.35	513	287	2,141	20.71	100.36	135	122	59.43	-	143	3,629
2029	8.08	99.87	522	285	2,145	20.81	101.12	136	122	59.97	-	146	3,647
2030	8.11	100.33	529	284	2,155	20.91	101.82	137	123	60.49	-	150	3,670

Forecast for Winter Coincident Peaks for Commercial SGS End Uses (MW)

Year	Refrig	Outdoor Light	Office	Misc	Indoor Light	Heating	Electric DHW	Electric Cook	Cooling	Vent	Total
2010	3.40	19.09	13.35	125	116	158	26.49	3.33	-	59.84	525
2011	3.28	18.29	13.48	128	111	160	25.85	3.25	-	59.90	524
2012	3.23	17.89	13.89	133	109	154	25.75	3.24	-	61.23	522
2013	3.17	17.58	14.30	138	107	152	25.61	3.23	-	62.35	524
2014	3.11	17.24	14.67	143	105	151	25.39	3.21	-	63.20	526
2015	3.04	16.98	15.01	148	103	149	25.10	3.19	-	64.21	528
2016	2.97	16.78	15.36	153	102	148	24.80	3.17	-	65.11	531
2017	2.92	16.65	15.72	157	101	146	24.53	3.15	-	66.01	533
2018	2.88	16.54	16.09	162	101	144	24.26	3.13	-	66.87	536
2019	2.84	16.52	16.48	166	101	143	24.01	3.12	-	67.73	540
2020	2.81	16.52	16.89	170	101	143	23.77	3.10	-	68.60	545
2021	2.79	16.55	17.33	175	101	142	23.57	3.10	-	69.54	550
2022	2.78	16.59	17.79	179	101	141	23.38	3.09	-	70.41	555
2023	2.77	16.64	18.26	184	101	141	23.18	3.08	-	71.15	561
2024	2.76	16.67	18.72	188	102	141	22.97	3.07	-	71.77	566
2025	2.75	16.73	19.24	193	102	140	22.79	3.07	-	72.47	571
2026	2.75	16.78	19.76	197	102	140	22.59	3.06	-	73.06	577
2027	2.75	16.84	20.30	202	103	139	22.39	3.06	-	73.65	583
2028	2.76	16.89	20.84	206	103	139	22.19	3.06	-	74.21	588
2029	2.77	16.99	21.44	211	103	139	22.02	3.06	-	74.91	594
2030	2.78	17.07	22.04	216	104	138	22.17	3.08	-	75.52	601

Forecast for Winter Coincident Peaks for Commercial LGS End Uses (MW)

Year	Cooling	Electric Cook	Electric DHW	Heating	Indoor Light	Misc	Office	Outdoor Light	Refrig	Vent	Total
2010	-	5.70	52.93	61.85	247	241	30.27	40.18	121	142	941
2011	-	5.71	53.00	64.30	242	252	31.35	39.50	119	146	953
2012	-	5.77	53.41	62.16	240	265	32.68	39.09	119	150	968
2013	-	5.82	53.80	62.52	239	279	34.07	38.88	118	155	986
2014	-	5.84	53.87	62.60	237	292	35.31	38.53	117	159	1,000
2015	-	5.87	53.84	62.45	235	305	36.53	38.35	115	163	1,016
2016	-	5.88	53.72	62.07	235	318	37.73	38.26	114	167	1,032
2017	-	5.91	53.69	62.26	236	331	39.02	38.36	113	171	1,050
2018	-	5.94	53.70	62.34	237	344	40.40	38.57	113	175	1,070
2019	-	5.99	53.81	62.69	239	357	41.90	39.00	113	180	1,093
2020	-	6.04	53.94	62.93	242	371	43.46	39.48	113	184	1,117
2021	-	6.10	54.15	63.68	246	386	45.17	40.04	114	189	1,144
2022	-	6.16	54.37	64.27	249	400	46.93	40.63	115	194	1,171
2023	-	6.22	54.60	64.90	253	415	48.78	41.26	116	199	1,199
2024	-	6.28	54.79	65.29	257	431	50.66	41.87	117	203	1,226
2025	-	6.35	55.01	66.09	261	447	52.69	42.53	118	207	1,256
2026	-	6.42	55.23	66.77	265	463	54.80	43.20	119	212	1,286
2027	-	6.50	55.49	67.57	270	481	57.05	43.93	121	216	1,318
2028	-	6.59	55.76	68.16	274	498	59.42	44.71	123	221	1,351
2029	-	6.68	56.14	69.24	280	517	62.01	45.60	125	226	1,389
2030	-	6.82	57.31	70.10	285	536	64.62	46.46	127	231	1,425

Forecast for Winter Coincident Peaks for Commercial SPS End Uses (MW)

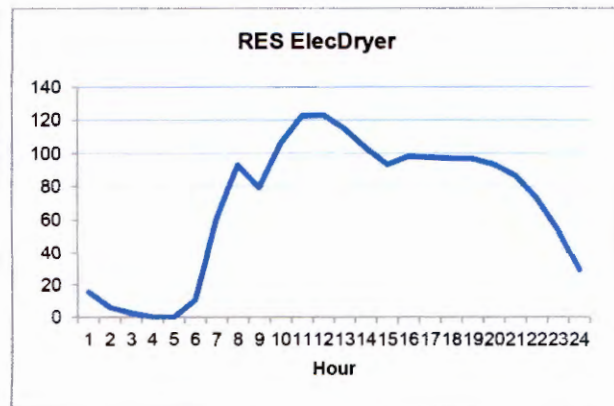
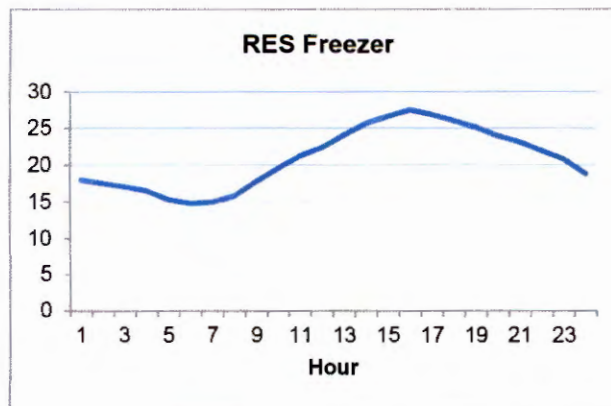
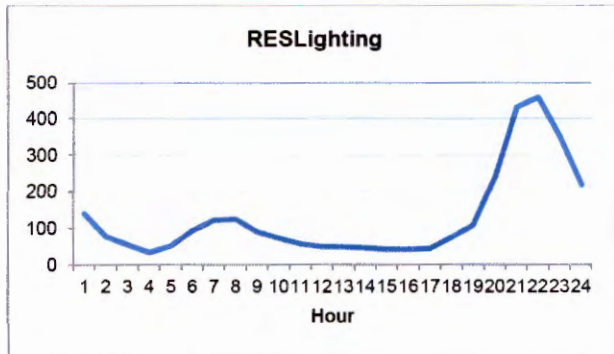
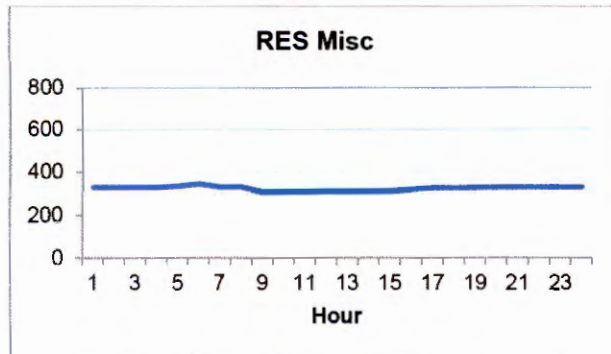
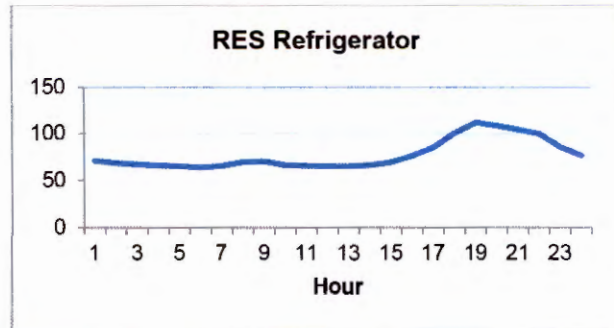
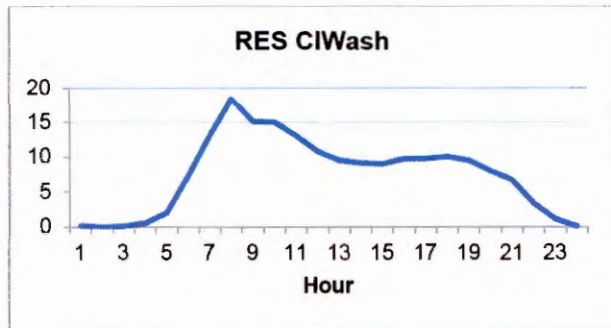
Year	Cooling	Electric Cook	Electric DHW	Indoor Light	Misc	Office	Outdoor Light	Refrig	Vent	Total
2010	-	1.06	17.56	93.13	97	13.79	15.13	27.86	53.14	319
2011	-	1.06	17.54	91.32	101	14.25	14.84	27.49	54.45	322
2012	-	1.06	17.58	89.89	106	14.78	14.61	27.22	55.99	327
2013	-	1.06	17.54	88.54	110	15.26	14.39	26.84	57.18	331
2014	-	1.06	17.42	87.05	115	15.69	14.15	26.33	58.08	334
2015	-	1.05	17.26	85.87	119	16.09	13.95	25.79	59.12	338
2016	-	1.05	17.08	85.01	123	16.48	13.82	25.31	60.07	342
2017	-	1.04	16.93	84.52	127	16.90	13.73	24.92	61.01	346
2018	-	1.04	16.77	84.17	130	17.33	13.68	24.59	61.93	350
2019	-	1.03	16.64	84.24	134	17.79	13.69	24.33	62.86	355
2020	-	1.03	16.51	84.42	138	18.27	13.72	24.13	63.81	360
2021	-	1.03	16.41	84.76	142	18.80	13.77	24.02	64.82	366
2022	-	1.03	16.30	85.12	146	19.33	13.83	23.93	65.78	371
2023	-	1.03	16.21	85.55	150	19.89	13.90	23.89	66.62	377
2024	-	1.03	16.09	85.93	154	20.44	13.96	23.86	67.34	382
2025	-	1.03	16.00	86.42	158	21.05	14.04	23.89	68.15	388
2026	-	1.03	15.90	86.86	162	21.67	14.12	23.93	68.86	394
2027	-	1.03	15.80	87.37	166	22.31	14.20	24.01	69.58	401
2028	-	1.04	15.69	87.87	170	22.96	14.28	24.10	70.28	407
2029	-	1.04	15.61	88.57	175	23.68	14.39	24.26	71.10	413
2030	-	1.05	15.75	89.21	179	24.40	14.50	24.36	71.85	420

Forecast for Winter Coincident Peaks for Commercial LPS End Uses (MW)

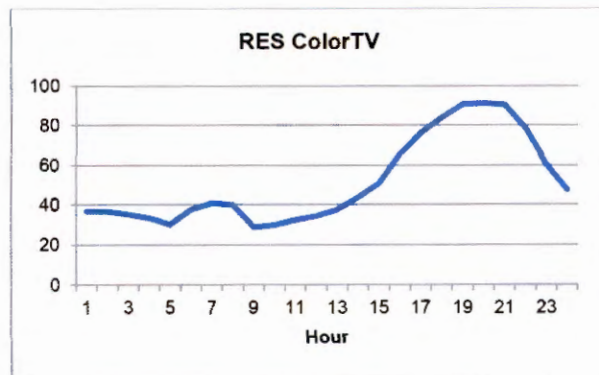
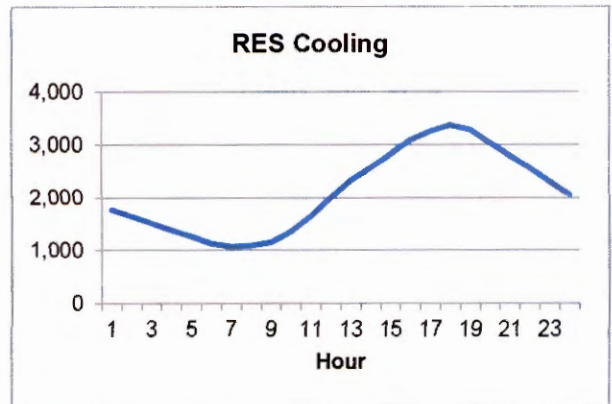
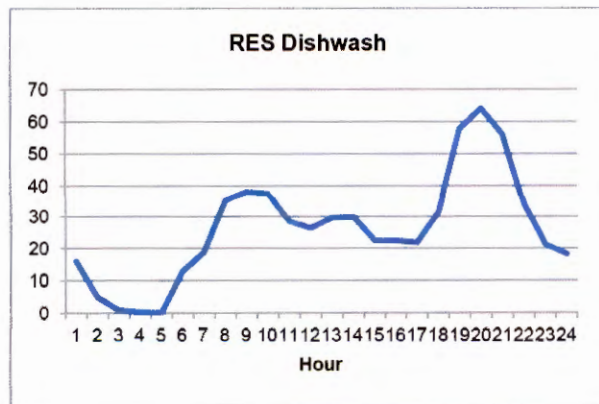
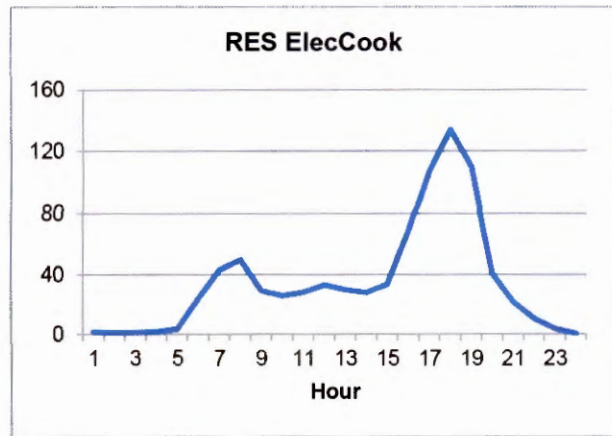
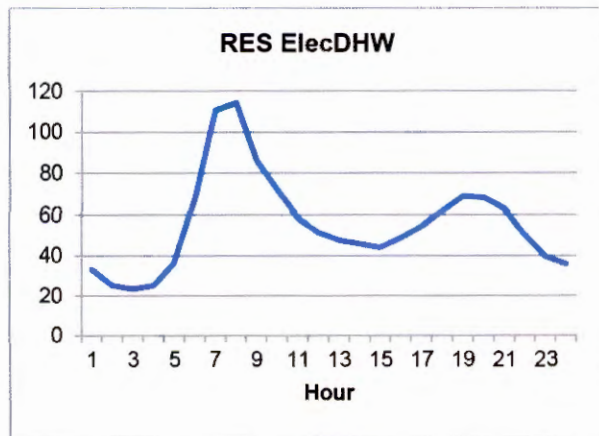
Year	Cooling	Electric Cook	Electric DHW	Indoor Light	Misc	Office	Outdoor Light	Refrig	Vent	Total
2010	-	0.72	10.43	51.84	50.50	7.42	8.52	9.10	35.96	174
2011	-	0.71	10.35	50.52	52.45	7.62	8.30	8.93	36.62	175
2012	-	0.73	10.59	50.76	56.00	8.06	8.34	9.02	38.44	182
2013	-	0.74	10.72	50.73	59.14	8.44	8.34	9.02	39.82	187
2014	-	0.75	10.74	50.31	61.97	8.76	8.27	8.93	40.81	191
2015	-	0.75	10.75	50.15	64.82	9.08	8.24	8.84	41.98	195
2016	-	0.75	10.76	50.18	67.75	9.40	8.25	8.77	43.10	199
2017	-	0.76	10.77	50.39	70.59	9.74	8.28	8.72	44.22	203
2018	-	0.76	10.78	50.69	73.41	10.09	8.33	8.69	45.34	208
2019	-	0.77	10.80	51.28	76.36	10.46	8.43	8.69	46.52	213
2020	-	0.77	10.82	51.88	79.25	10.85	8.53	8.70	47.67	218
2021	-	0.78	10.85	52.55	82.29	11.26	8.64	8.74	48.86	224
2022	-	0.79	10.88	53.25	85.25	11.68	8.75	8.79	50.03	229
2023	-	0.80	10.91	54.00	88.37	12.13	8.88	8.85	51.12	235
2024	-	0.80	10.93	54.71	91.44	12.57	8.99	8.92	52.12	240
2025	-	0.81	10.96	55.49	94.78	13.06	9.12	9.00	53.20	246
2026	-	0.82	10.99	56.29	98.18	13.56	9.25	9.10	54.26	252
2027	-	0.83	11.03	57.18	101.72	14.11	9.40	9.22	55.36	259
2028	-	0.84	11.07	58.15	105.39	14.68	9.56	9.36	56.54	266
2029	-	0.85	11.14	59.30	109.36	15.32	9.75	9.53	57.87	273
2030	-	0.87	11.37	60.38	113.23	15.95	9.93	9.68	59.12	281

Load Profile by Class and End Uses on System Peak Days²²

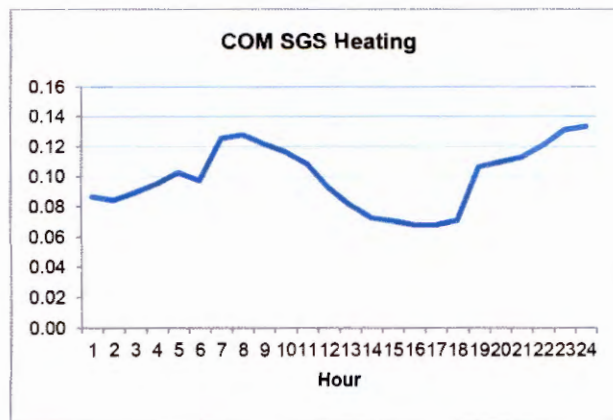
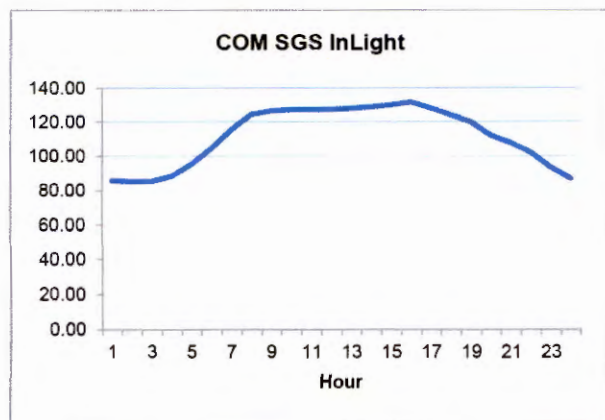
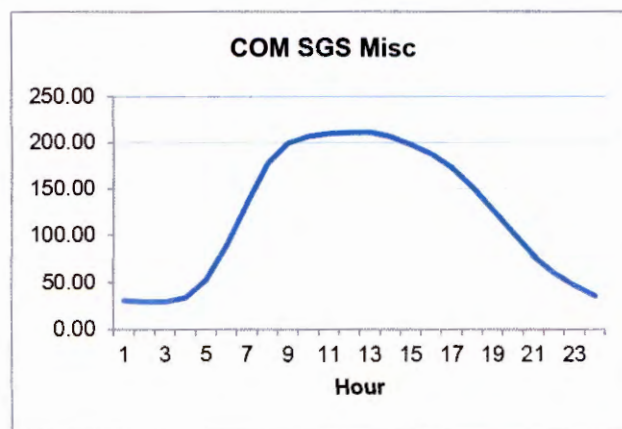
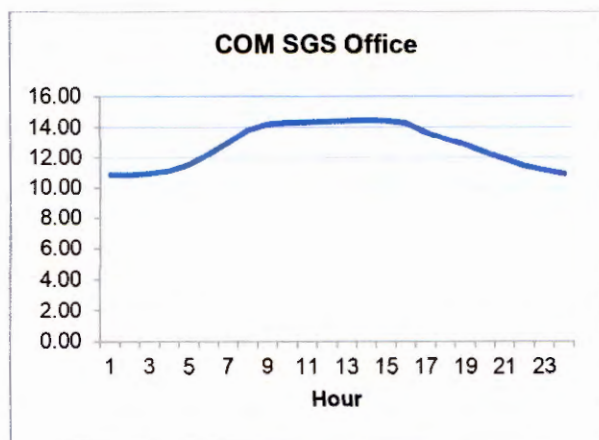
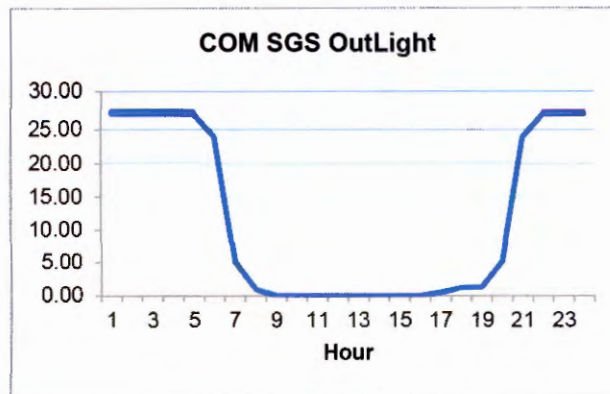
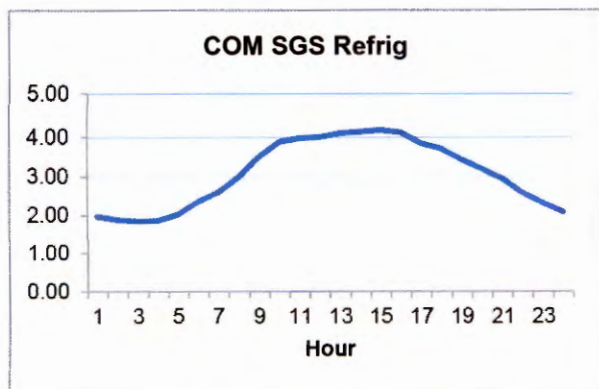
Profile Shapes for Residential End Uses

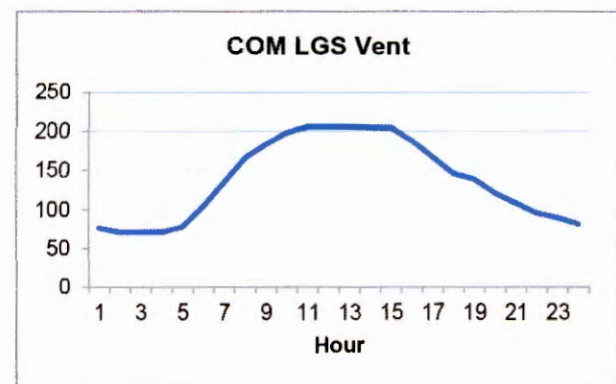
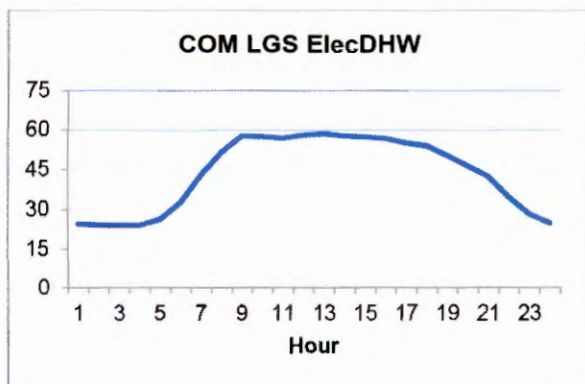
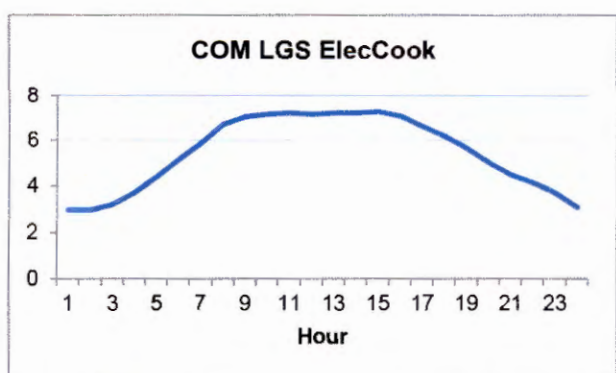
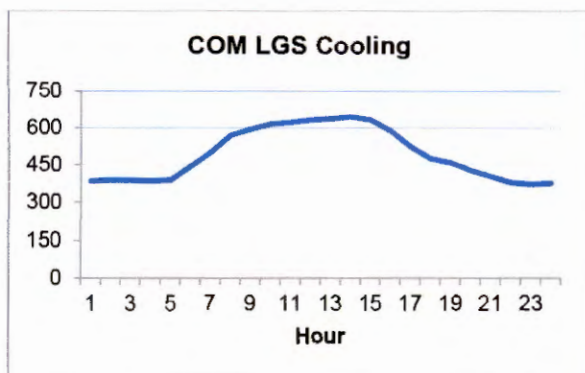
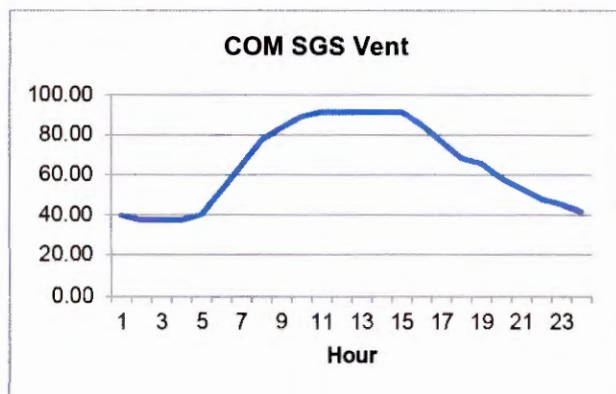
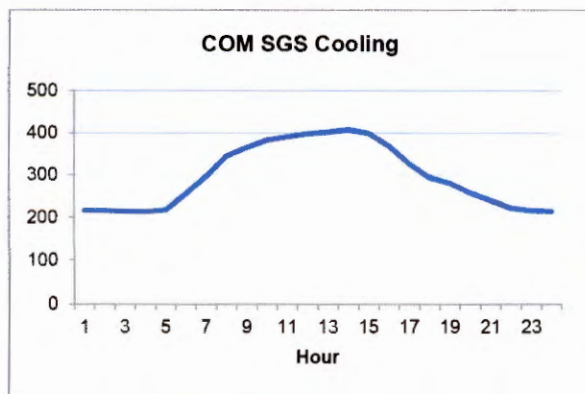
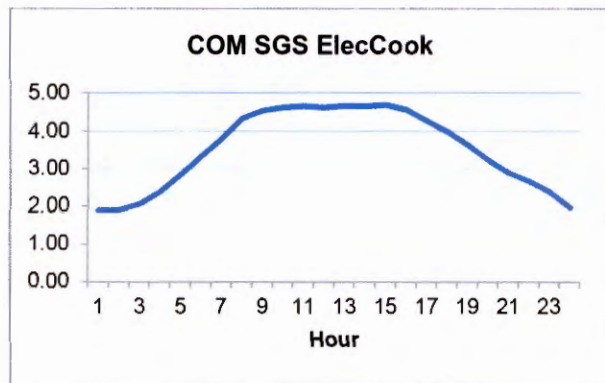
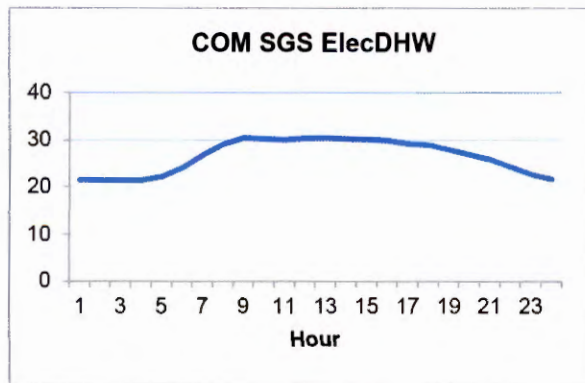


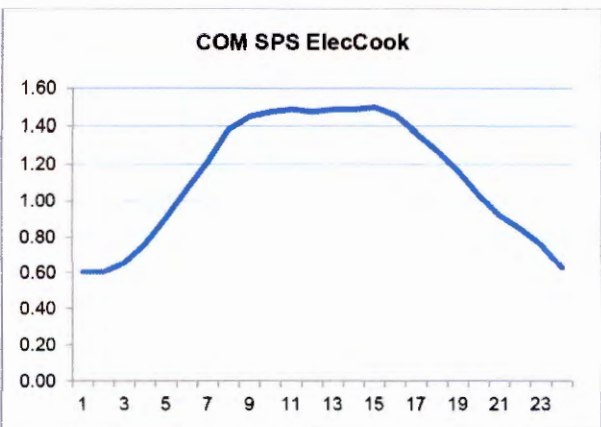
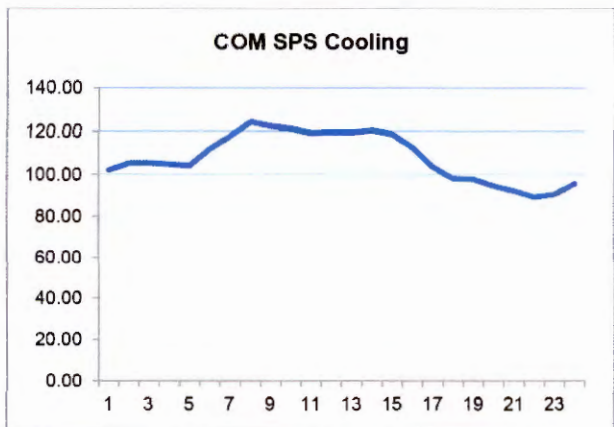
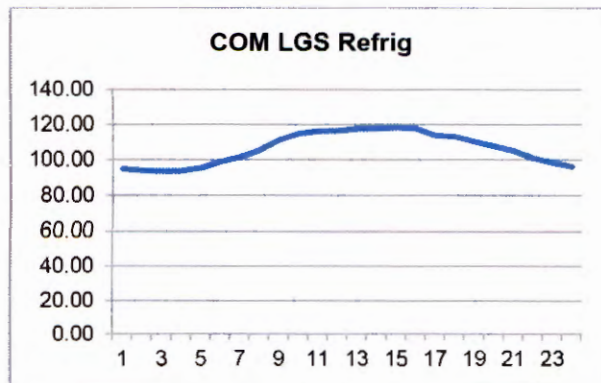
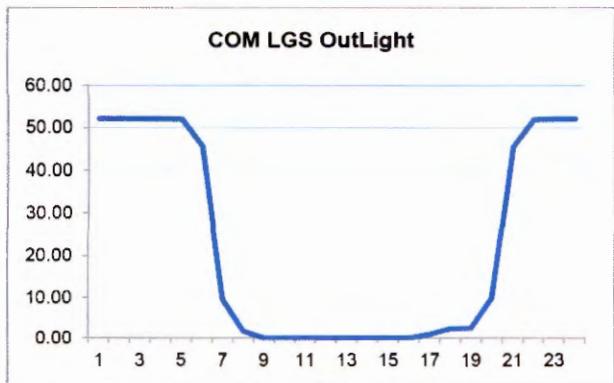
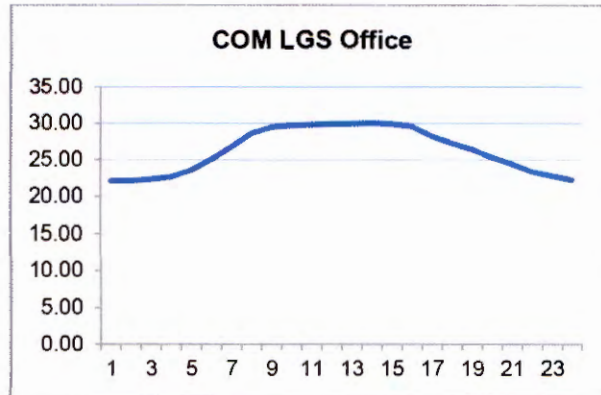
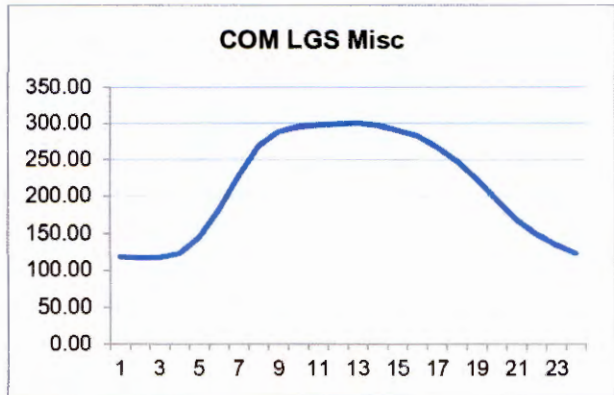
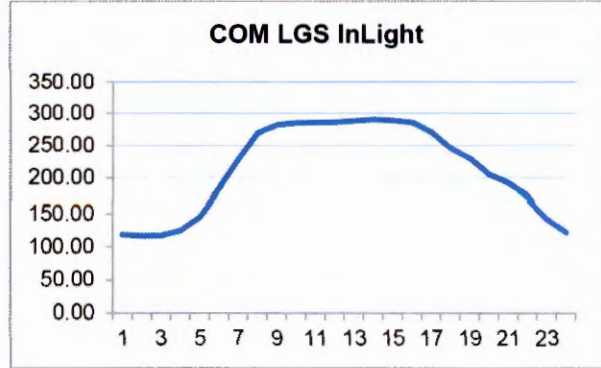
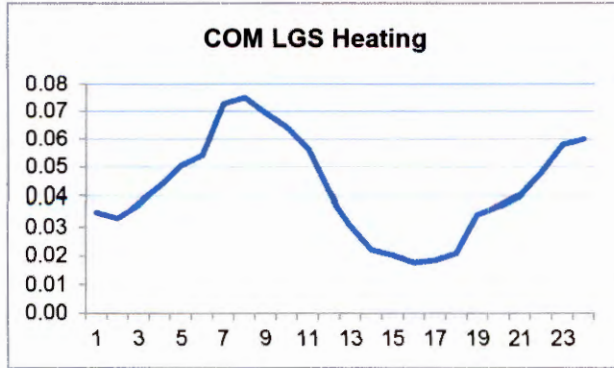
²² 4 CSR 240-22.030(8)(E)1.; 4 CSR 240-22.030(8)(E)2.

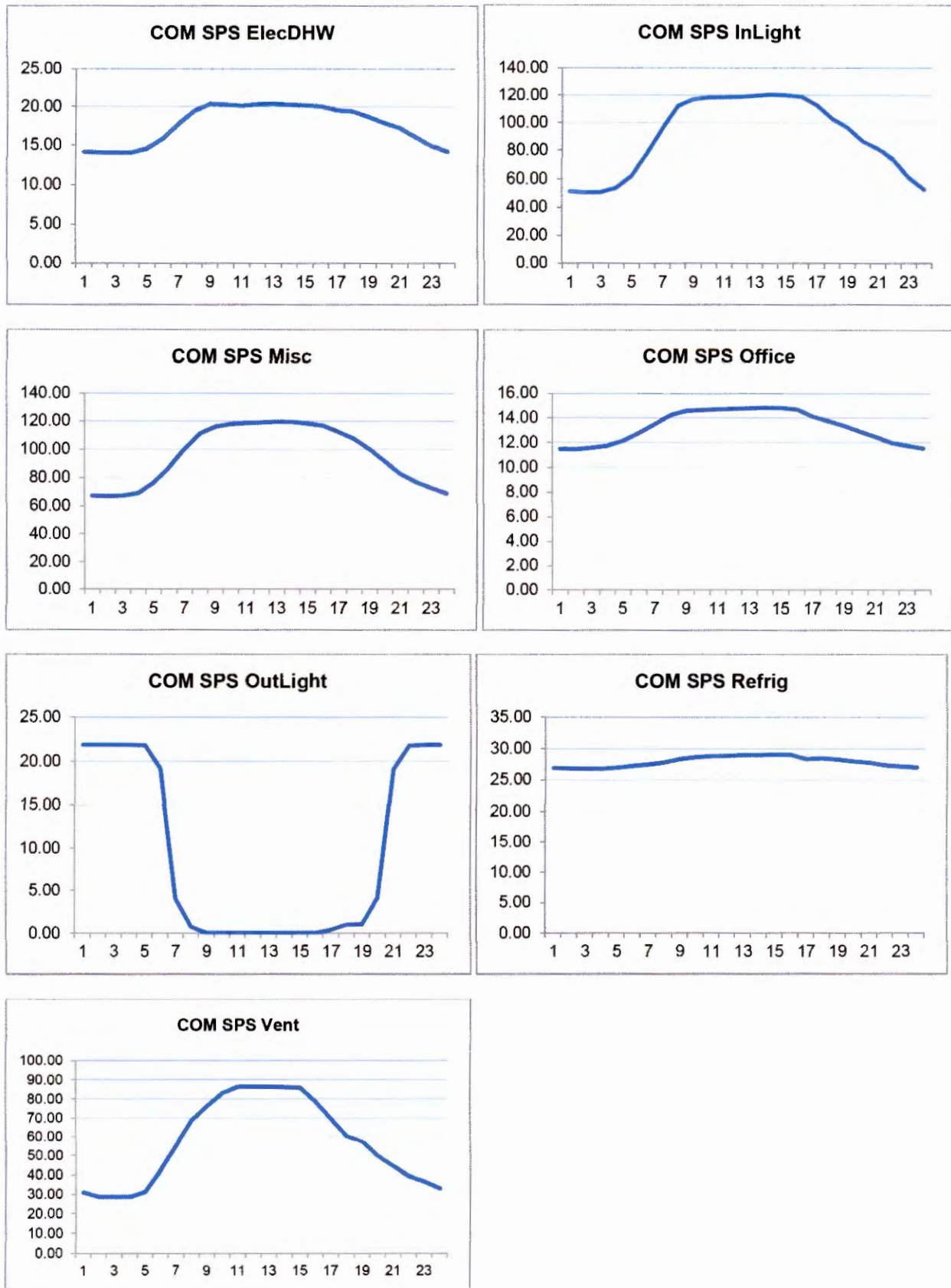


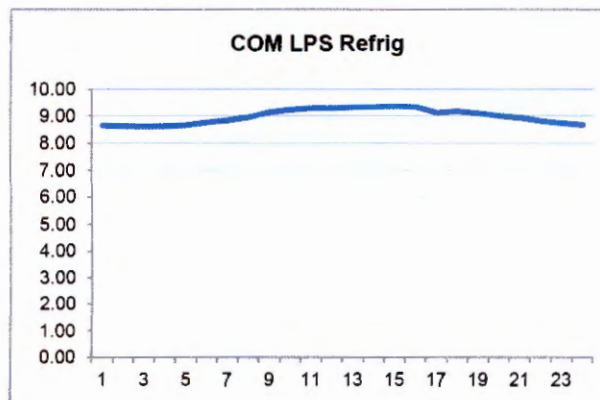
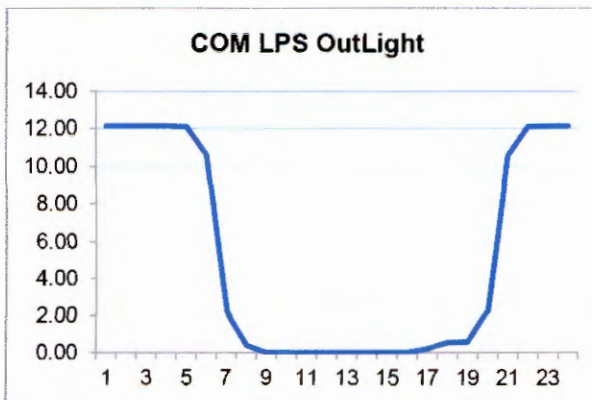
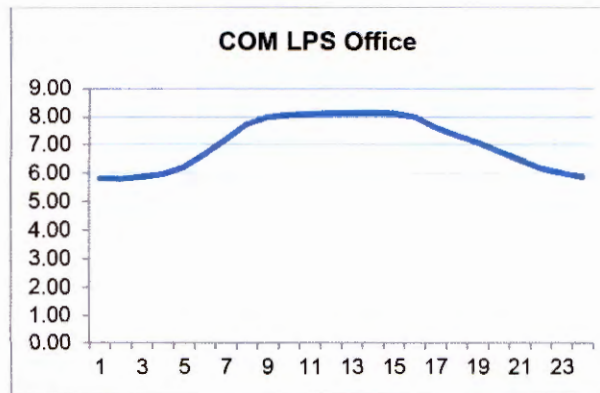
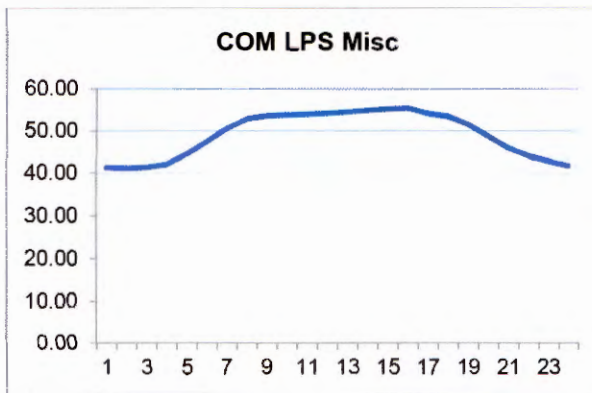
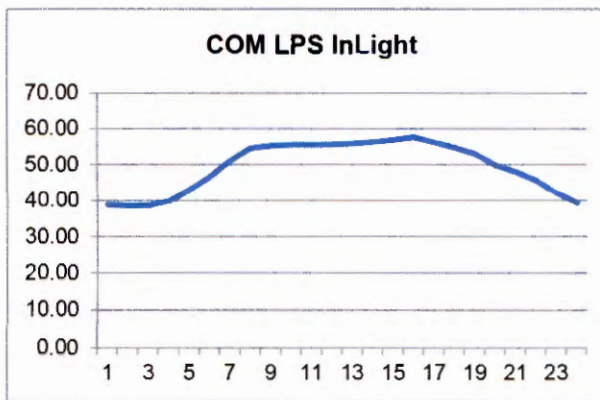
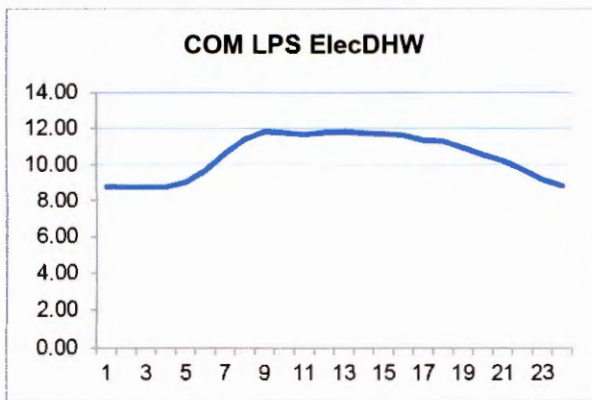
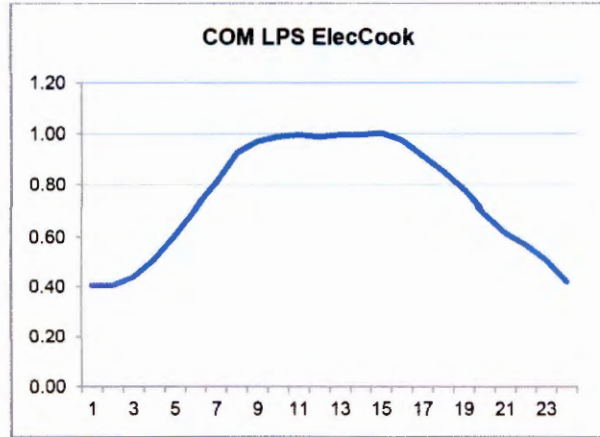
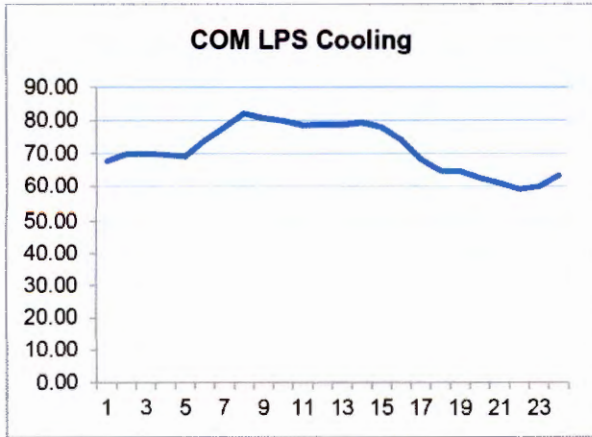
Profile Shapes for Commercial End Uses

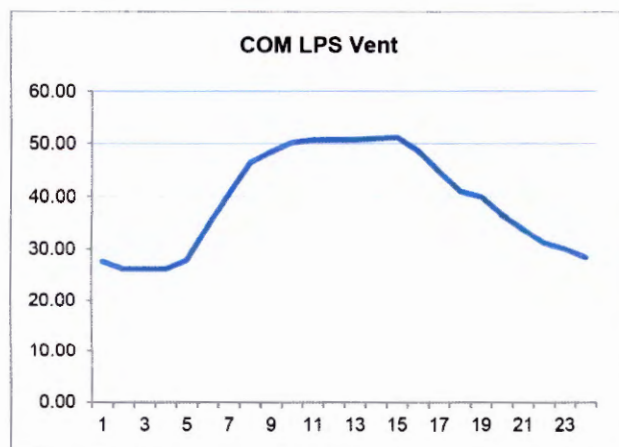






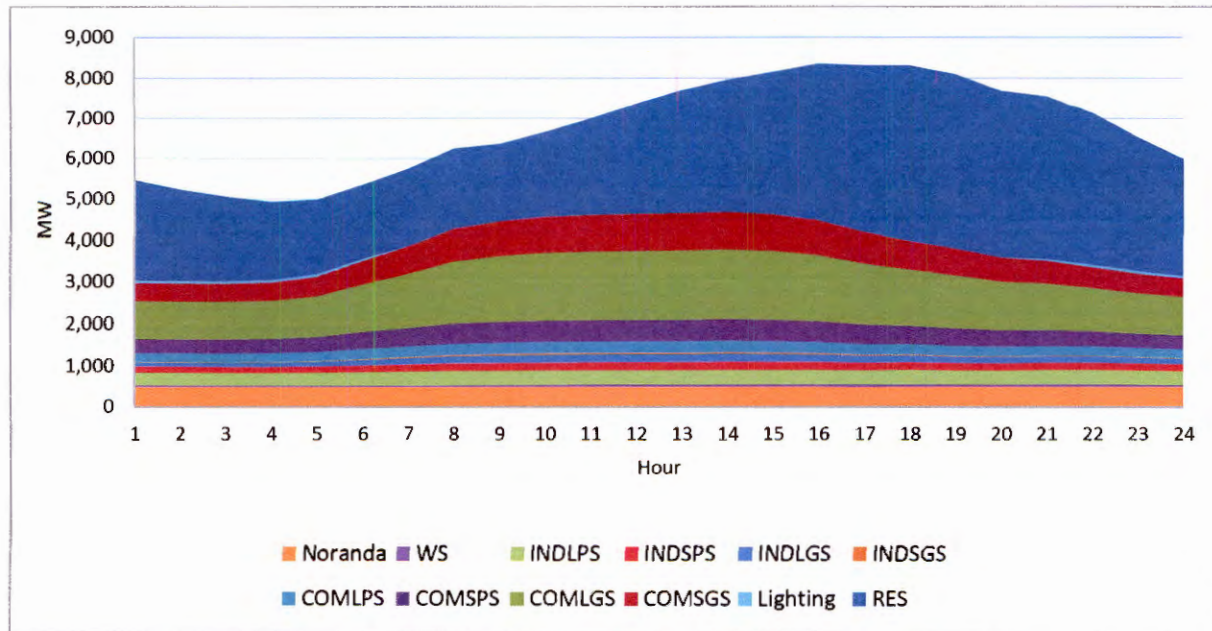




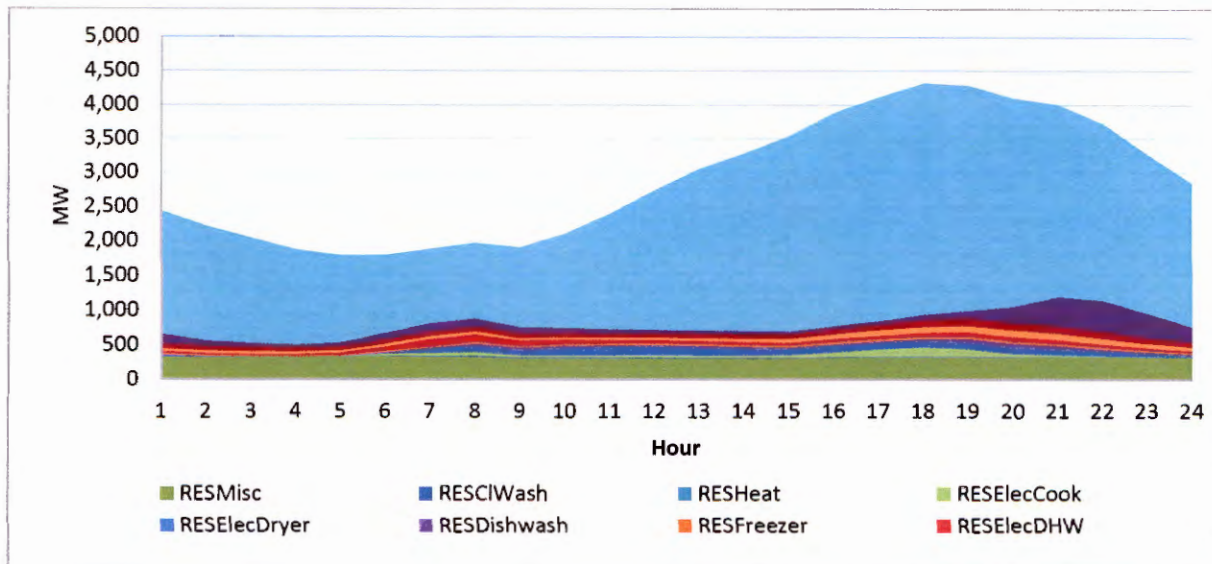


Summer and Winter Peak Day Profiles – System by Class and Class by End Use – 2010, 2015, 2020, 2030²³

System Load Profiles for Summer 2010 System Peak Day (MW)

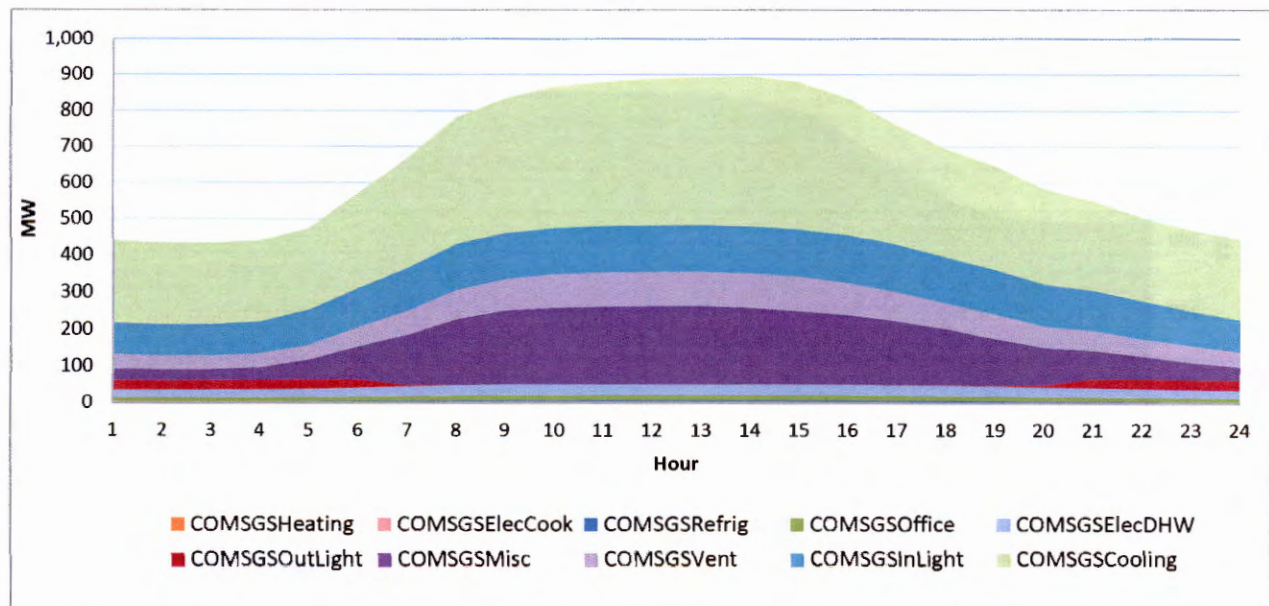


Summer 2010 System Peak Day: Residential End-Use Profiles (MW)

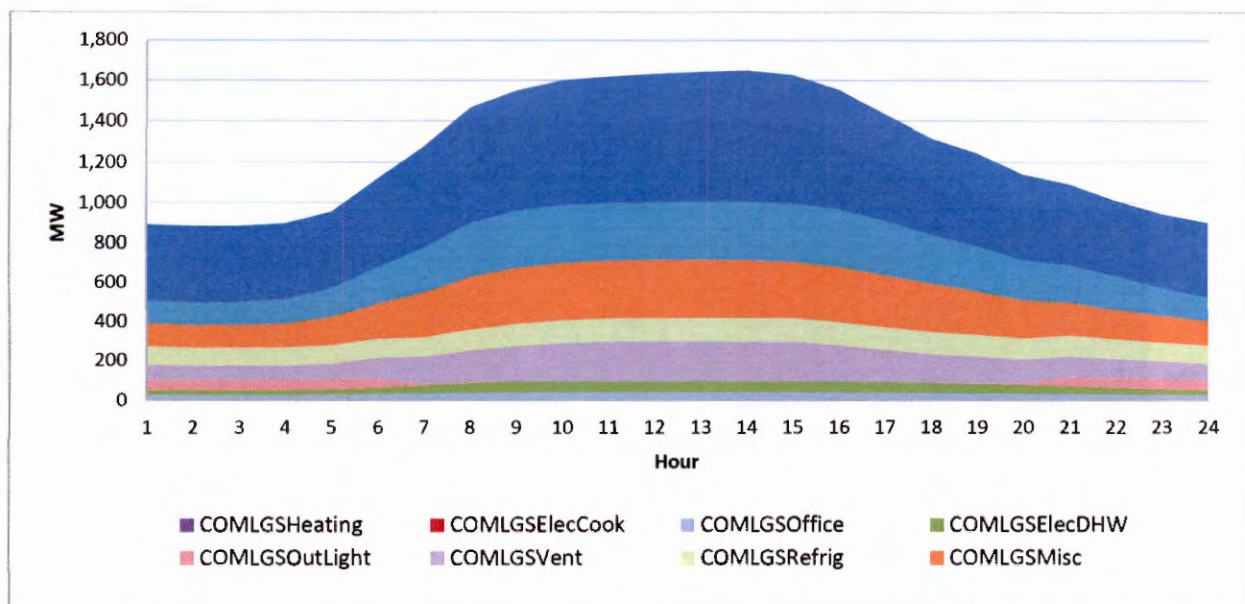


²³ 4 CSR 240-22.030(8)(E), 4 CSR 240-22.030(8)(E)1, 4 CSR 240-22.030(8)(E)2, 4 CSR 240-22.030(8)(F), 4 CSR 240-22.030(8)(F)1, 4 CSR 240-22.030(8)(F)2

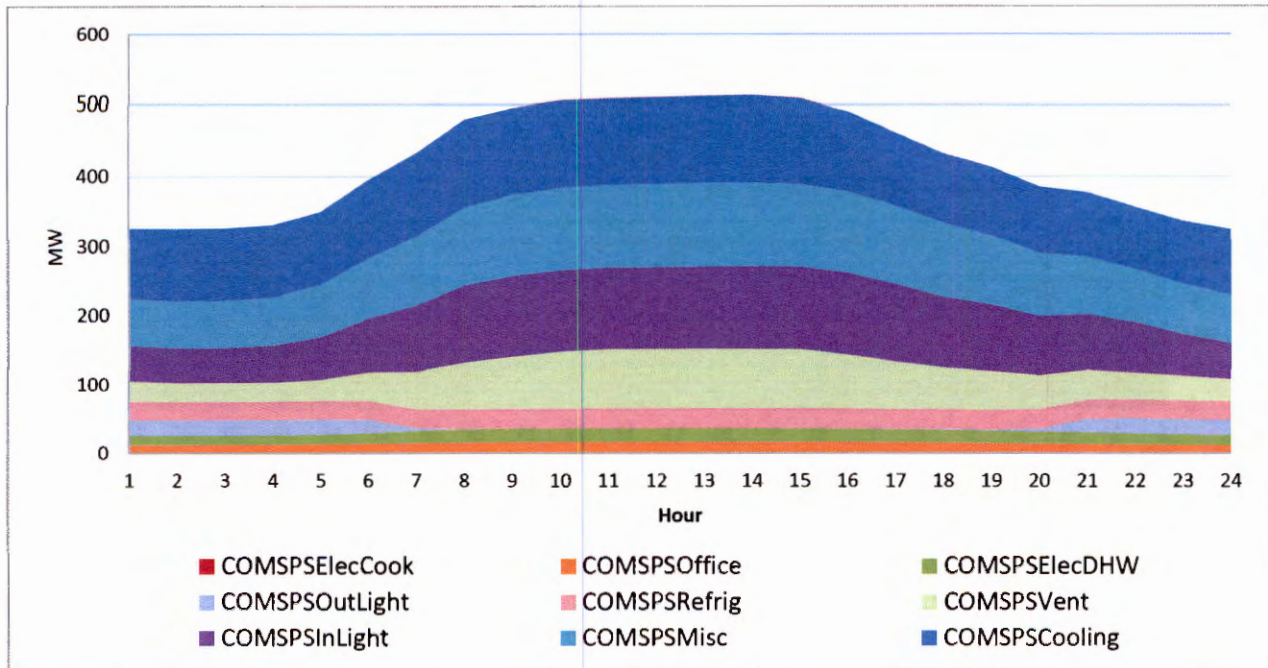
Summer 2010 System Peak Day: Commercial SGS End-Use Profiles (MW)



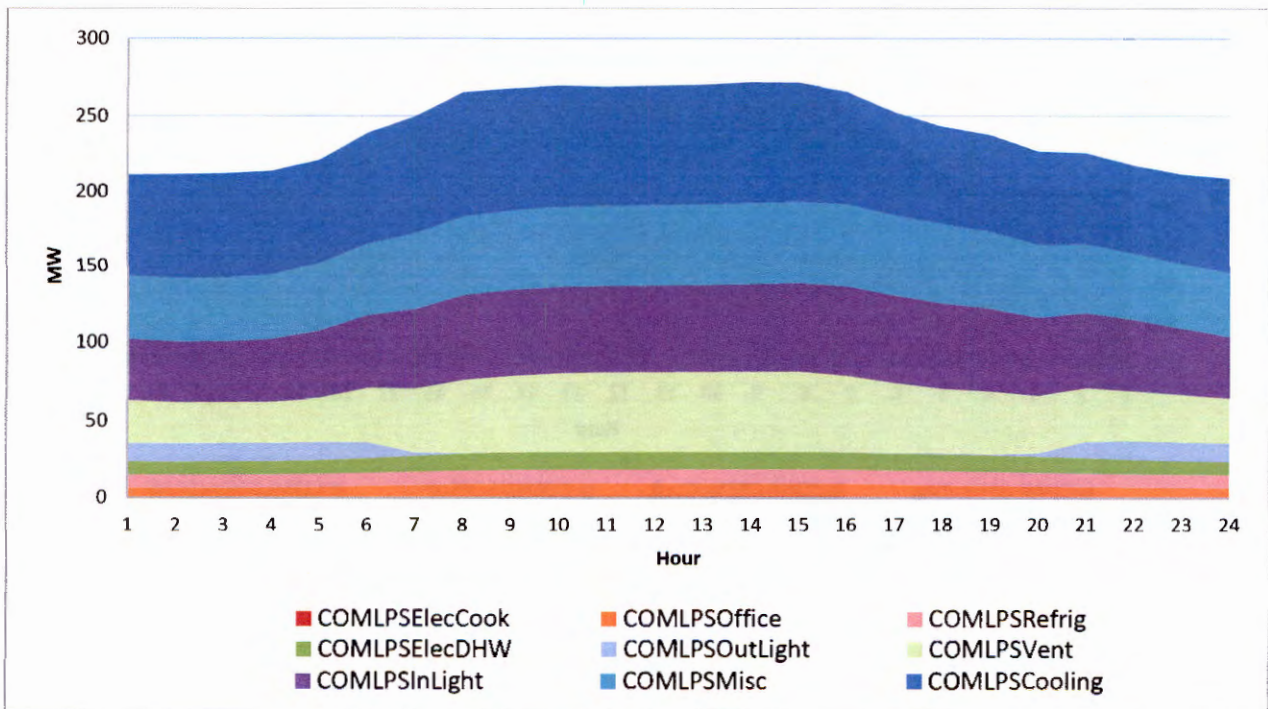
Summer 2010 System Peak Day: Commercial LGS End-Use Profiles (MW)



Summer 2010 System Peak Day: Commercial SPS End Use Profiles (MW)



Summer 2010 System Peak Day: Commercial LPS End-Use Profiles (MW)



Load Profiles for Summer 2010 System Peak Day (MW)

Hour	RES	COM SGS	COM LGS	COM SPS	COM LPS	IND SGS	IND LGS	IND SPS	IND LPS	WS	Lighting	Noranda	Total
1	2,439	440	894	331	213	10.27	97	147	302	49.99	56.81	492	5,473
2	2,215	435	887	330	213	10.15	98	148	305	44.97	56.81	492	5,236
3	2,045	434	887	331	214	9.83	99	147	302	41.36	56.81	492	5,059
4	1,882	441	900	336	216	10.26	103	147	304	38.52	56.81	492	4,927
5	1,799	475	959	354	223	12.19	114	151	312	38.49	56.81	492	4,987
6	1,804	572	1,126	400	241	17.71	134	160	322	41.14	49.23	492	5,360
7	1,891	669	1,284	438	252	21.69	154	172	334	44.91	-	492	5,753
8	1,978	783	1,474	485	268	26.45	169	181	347	50.59	-	492	6,254
9	1,911	835	1,559	501	270	32.81	178	186	343	55.85	-	492	6,365
10	2,103	867	1,610	510	272	32.94	186	190	341	62.05	-	492	6,666
11	2,391	880	1,629	512	271	31.19	189	194	339	69.59	-	492	6,998
12	2,738	889	1,642	513	272	29.65	188	195	337	74.13	-	492	7,371
13	3,055	895	1,652	515	272	29.74	187	198	344	66.87	-	492	7,706
14	3,286	896	1,657	516	274	29.69	193	199	348	70.81	-	492	7,963
15	3,537	879	1,636	512	274	28.51	183	199	341	74.88	-	492	8,158
16	3,889	834	1,564	496	268	26.81	178	194	338	77.62	-	493	8,359
17	4,123	762	1,443	466	255	20.60	167	185	333	77.99	-	485	8,316
18	4,333	695	1,328	436	245	17.84	165	183	345	77.75	-	491	8,316
19	4,301	648	1,253	417	240	14.28	151	182	330	73.22	-	492	8,102
20	4,108	585	1,147	389	229	11.81	152	179	331	68.20	-	492	7,692
21	4,015	551	1,099	381	228	10.63	152	178	336	80.24	35.98	492	7,559
22	3,728	505	1,017	360	219	11.11	153	178	340	76.75	56.81	492	7,138
23	3,277	472	947	340	213	10.62	147	175	335	66.12	56.81	492	6,534
24	2,843	447	902	329	210	12.41	133	171	333	55.98	56.81	492	5,986

Summer 2010 System Peak Day: Profile for Residential End Uses (MW)

Hour	CI Wash	Refrig.	Misc	Lighting	Heating	Freezer	Dryer	DHW	Cooker	Dishwasher	Cooling	TV	Total
1	0.2	69.8	330	138	1.2	17.65	15.3	32.7	1.7	15.73	1,782	36.0	2,439
2	0.0	67.5	330	77	1.2	17.15	6.0	24.8	0.9	4.73	1,651	35.8	2,215
3	0.1	65.8	329	54	1.1	16.74	2.5	23.2	1.1	0.84	1,515	34.4	2,045
4	0.5	64.5	329	33	1.1	16.17	0.3	24.9	1.5	0.23	1,378	32.8	1,882
5	1.9	64.0	336	51	1.1	15.03	0.0	35.7	3.4	(0.00)	1,262	29.6	1,799
6	7.2	62.5	346	93	0.0	14.53	10.7	66.8	23.8	12.71	1,130	36.8	1,804
7	12.9	64.1	331	120	1.1	14.70	59.6	108.7	42.4	18.34	1,078	40.1	1,891
8	18.1	68.1	331	123	1.1	15.52	91.3	112.3	49.0	34.64	1,095	39.1	1,978
9	14.8	69.0	307	88	1.2	17.48	77.9	84.5	28.8	37.37	1,156	28.4	1,911
10	14.7	65.0	309	72	1.3	19.25	104.4	70.7	25.4	36.87	1,355	29.2	2,103
11	12.8	64.2	309	56	1.4	20.92	120.4	57.6	27.8	28.01	1,661	31.8	2,391
12	10.6	63.7	312	49	1.5	22.07	120.8	50.6	32.7	25.90	2,016	33.6	2,738
13	9.3	63.9	311	48	1.6	23.70	112.9	46.9	29.5	29.21	2,342	36.8	3,055
14	8.9	65.1	311	45	1.7	25.18	101.7	44.9	27.5	29.37	2,582	42.9	3,286
15	8.8	68.0	313	41	1.7	26.16	91.7	43.3	32.9	22.07	2,840	49.7	3,537
16	9.6	74.8	321	41	1.7	26.99	96.6	48.0	67.4	22.08	3,115	64.6	3,889
17	9.6	83.6	326	44	1.5	26.39	96.0	53.6	105.5	21.50	3,279	75.2	4,123
18	9.9	98.8	327	75	1.5	25.58	95.5	60.9	131.7	31.03	3,393	82.6	4,333
19	9.3	109.9	328	107	1.5	24.69	95.1	67.9	107.7	56.74	3,304	89.3	4,301
20	7.8	106.3	329	235	1.5	23.54	91.6	67.1	40.2	63.04	3,053	89.6	4,108
21	6.6	102.4	329	424	1.4	22.72	85.2	61.7	21.6	55.14	2,817	88.9	4,015
22	3.2	97.9	329	451	1.4	21.58	71.8	49.5	10.3	33.59	2,583	76.9	3,728
23	1.1	84.0	329	345	1.3	20.43	53.1	38.9	3.6	20.84	2,321	59.5	3,277
24	0.1	75.0	329	213	1.3	18.46	28.7	35.3	0.4	17.83	2,078	46.6	2,843

Summer 2010 System Peak Day: Profile for Commercial SGS End Uses (MW)

Hour	Refrig	Outdoor Light	Office	Misc	Indoor Light	Heating	Electric DHW	Electric Cook	Cooling	Vent	Total
1	1.98	27.37	10.86	30.04	85.7	0.09	21.5	1.9	221	39.66	440
2	1.88	27.37	10.85	28.78	85.1	0.09	21.4	1.9	220	37.20	435
3	1.85	27.37	10.95	28.82	85.3	0.09	21.4	2.1	219	37.20	434
4	1.86	27.37	11.12	33.19	88.2	0.10	21.4	2.4	218	37.20	441
5	2.03	27.31	11.53	52.64	95.4	0.11	22.1	2.8	221	40.14	475
6	2.36	23.96	12.22	89.12	104.6	-	24.0	3.3	260	52.04	572
7	2.61	5.02	12.99	134.63	115.5	0.13	26.8	3.8	303	64.69	669
8	2.98	0.87	13.82	177.76	124.4	0.13	29.1	4.3	352	77.40	783
9	3.51	0.00	14.19	199.20	126.5	0.13	30.4	4.5	373	83.63	835
10	3.88	0.00	14.28	206.36	127.1	0.12	30.3	4.6	391	89.15	867
11	3.98	0.00	14.34	209.47	127.1	0.11	30.0	4.7	399	91.67	880
12	4.00	0.00	14.38	210.47	127.3	0.10	30.4	4.6	406	91.67	889
13	4.11	0.00	14.42	210.97	127.9	0.08	30.5	4.7	410	91.67	895
14	4.14	0.00	14.46	206.29	128.9	0.07	30.2	4.7	416	91.65	896
15	4.18	0.00	14.41	197.08	130.0	0.07	30.1	4.7	407	91.64	879
16	4.13	0.00	14.27	187.46	131.7	0.07	30.0	4.6	377	85.21	834
17	3.85	0.47	13.67	172.61	128.1	0.07	29.2	4.3	333	76.69	762
18	3.72	1.20	13.24	151.80	124.1	0.07	29.0	4.0	300	68.25	695
19	3.43	1.28	12.83	127.09	119.8	0.11	28.0	3.6	286	65.49	648
20	3.19	5.17	12.33	101.65	112.1	0.11	26.9	3.2	262	58.06	585
21	2.94	23.87	11.89	77.70	107.8	0.12	25.9	2.9	245	52.81	551
22	2.58	27.29	11.42	60.02	102.3	0.12	24.2	2.7	227	47.56	505
23	2.32	27.37	11.15	46.18	93.5	0.14	22.6	2.4	221	45.01	472
24	2.09	27.37	10.92	34.97	86.9	0.14	21.6	2.0	219	41.55	447

Summer 2010 System Peak Day: Profile for Commercial LGS End Uses (MW)

Hour	Cooling	Electric Cook	Electric DHW	Heating	Indoor Light	Misc	Office	Outdoor Light	Refrigerator	Vent	Total
1	365	3.05	25.42	0.04	123	123	22.9	54.1	99	80	894
2	368	3.05	25.11	0.04	121	122	22.9	54.1	98	74	887
3	367	3.31	25.01	0.04	122	122	23.1	54.1	97	74	887
4	365	3.84	25.01	0.05	129	128	23.5	54.1	97	74	900
5	368	4.56	27.41	0.06	150	150	24.4	53.9	99	81	959
6	421	5.37	33.95	0.00	192	189	26.0	47.3	103	109	1,126
7	476	6.11	44.62	0.08	238	236	27.8	9.9	105	140	1,284
8	542	6.98	53.46	0.08	280	279	29.7	1.7	109	172	1,474
9	564	7.32	59.86	0.08	293	299	30.6	0.0	115	190	1,559
10	585	7.45	59.68	0.07	296	306	30.8	0.0	119	205	1,610
11	592	7.50	59.04	0.06	296	309	30.9	0.0	121	213	1,629
12	602	7.44	60.24	0.05	297	311	31.0	0.0	121	213	1,642
13	606	7.50	60.77	0.03	299	312	31.1	0.0	122	213	1,652
14	614	7.50	59.86	0.02	301	309	31.2	0.0	122	213	1,657
15	601	7.56	59.48	0.02	300	301	31.1	0.0	123	212	1,636
16	559	7.36	58.88	0.02	297	294	30.7	0.0	122	195	1,564
17	498	6.89	57.11	0.02	281	278	29.3	1.0	118	173	1,443
18	452	6.43	55.99	0.02	255	258	28.3	2.4	118	151	1,328
19	436	5.87	52.20	0.04	238	232	27.4	2.5	114	144	1,253
20	405	5.22	48.17	0.04	213	203	26.3	10.2	112	125	1,147
21	382	4.65	44.09	0.04	199	175	25.3	47.2	109	112	1,099
22	358	4.28	35.99	0.05	180	156	24.2	53.9	105	100	1,017
23	353	3.83	29.45	0.06	148	141	23.6	54.1	102	93	947
24	356	3.17	25.86	0.07	127	128	23.1	54.1	100	85	902

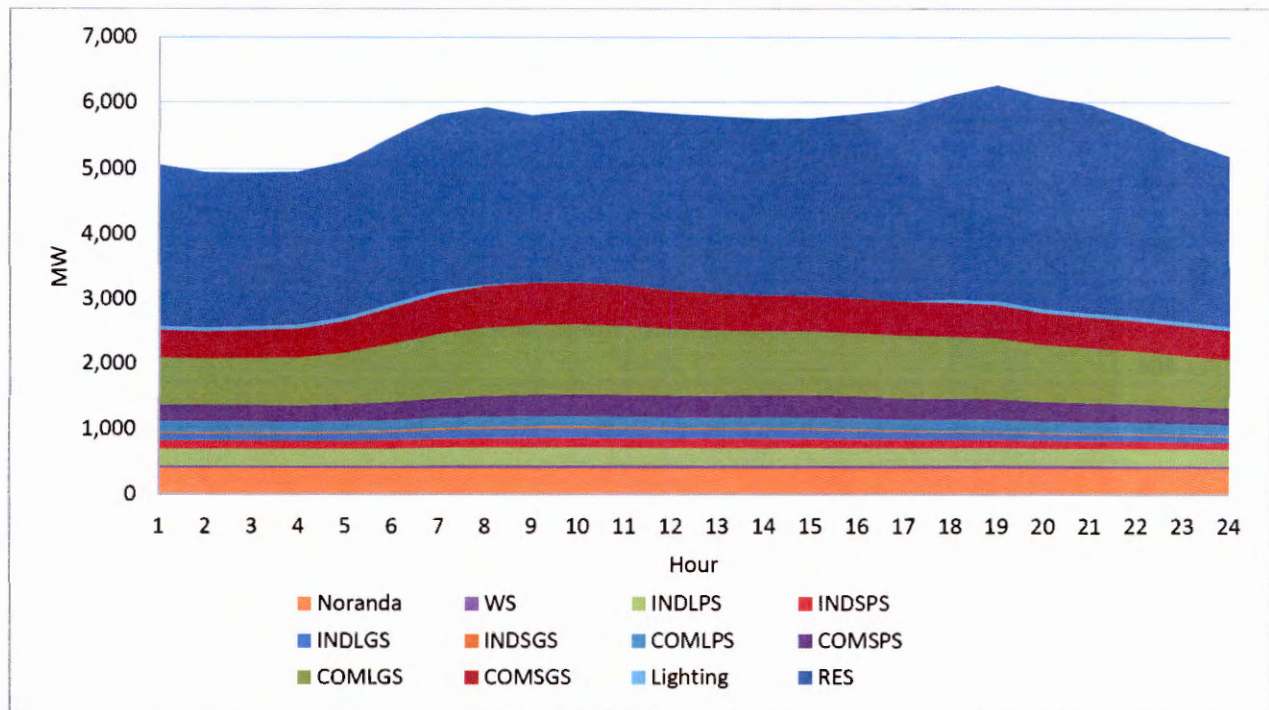
Summer 2010 System Peak Day: Profile for Commercial SPS End Uses (MW)

Hour	Cooling	Electric Cook	Electric DHW	Indoor Light	Misc	Office	Outdoor Light	Refrigerator	Vent	Total
1	107	0.60	14.01	50.9	67	11	21.7	26.8	30.7	331
2	111	0.60	13.97	50.2	67	11	21.7	26.7	28.4	330
3	111	0.65	13.95	50.4	67	12	21.7	26.7	28.4	331
4	110	0.76	13.95	53.4	69	12	21.7	26.7	28.4	336
5	110	0.90	14.47	61.6	76	12	21.7	26.8	31.1	354
6	118	1.06	15.77	77.6	87	13	19.0	27.1	42.4	400
7	124	1.20	17.70	95.3	100	13	4.0	27.3	55.1	438
8	131	1.38	19.32	111.5	111	14	0.7	27.7	68.5	485
9	129	1.44	20.25	116.3	115	15	0.0	28.2	75.9	501
10	128	1.47	20.14	117.6	117	15	0.0	28.5	82.6	510
11	125	1.48	19.99	117.7	118	15	0.0	28.7	86.0	512
12	126	1.47	20.21	118.0	118	15	0.0	28.7	86.0	513
13	126	1.48	20.28	118.8	119	15	0.0	28.8	86.0	515
14	127	1.48	20.13	119.6	119	15	0.0	28.8	85.7	516
15	125	1.49	20.05	119.2	117	15	0.0	28.9	85.5	512
16	119	1.45	19.94	118.1	116	15	0.0	28.9	78.3	496
17	109	1.36	19.43	112.2	112	14	0.4	28.2	69.3	466
18	103	1.27	19.30	102.2	107	14	1.0	28.4	60.2	436
19	103	1.16	18.57	95.6	100	13	1.0	28.1	57.1	417
20	99	1.03	17.79	85.8	91	13	4.1	27.8	49.4	389
21	97	0.92	17.11	80.5	82	12	19.0	27.6	44.1	381
22	94	0.84	15.93	73.0	77	12	21.7	27.2	38.9	360
23	95	0.75	14.79	60.4	72	12	21.7	27.0	36.3	340
24	101	0.62	14.07	52.2	69	11	21.7	26.8	32.8	329

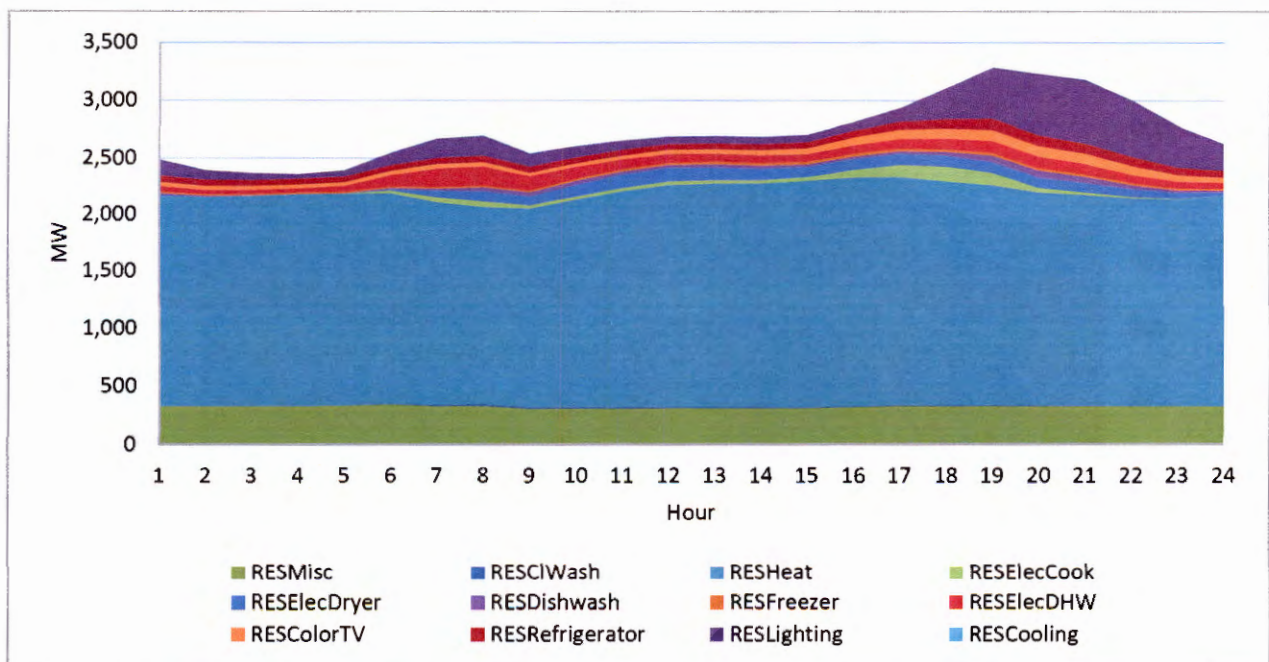
Summer 2010 System Peak Day: Profile for Commercial LPS End Uses (MW)

Hour	Cooling	Electric Cook	Electric DHW	Indoor Light	Misc	Office	Outdoor Light	Refrigerator	Vent	Total
1	68.25	0.41	8.87	39.1	41.65	5.87	12.23	8.7	27.8	213
2	70.44	0.41	8.85	38.8	41.51	5.87	12.23	8.7	26.4	213
3	70.60	0.44	8.84	38.9	41.75	5.92	12.23	8.7	26.4	214
4	70.22	0.51	8.84	40.2	42.45	6.02	12.23	8.7	26.4	216
5	69.73	0.61	9.12	43.3	44.88	6.28	12.20	8.7	28.1	223
6	74.81	0.72	9.77	47.0	47.85	6.74	10.70	8.8	34.6	241
7	78.62	0.82	10.72	51.4	51.12	7.26	2.24	8.9	41.0	252
8	82.87	0.93	11.51	55.0	53.35	7.81	0.39	9.0	46.8	268
9	81.44	0.98	11.92	55.8	54.05	8.06	0.00	9.2	48.9	270
10	80.68	1.00	11.85	56.0	54.30	8.13	0.00	9.3	50.6	272
11	79.23	1.00	11.77	56.0	54.45	8.17	0.00	9.4	51.2	271
12	79.46	1.00	11.88	56.1	54.65	8.20	0.00	9.4	51.2	272
13	79.39	1.00	11.90	56.4	54.97	8.22	0.00	9.4	51.2	272
14	80.06	1.00	11.83	56.8	55.39	8.23	0.00	9.4	51.4	274
15	78.79	1.01	11.79	57.3	55.66	8.19	0.00	9.4	51.6	274
16	74.96	0.98	11.74	58.2	55.95	8.07	0.00	9.4	49.0	268
17	68.93	0.92	11.45	56.7	54.68	7.69	0.21	9.2	45.1	255
18	65.34	0.86	11.40	55.2	53.98	7.40	0.54	9.3	41.4	245
19	65.15	0.79	11.03	53.5	52.00	7.13	0.57	9.2	40.3	240
20	63.04	0.70	10.64	50.2	49.13	6.81	2.31	9.1	36.8	229
21	61.54	0.62	10.32	48.4	46.29	6.54	10.66	9.0	34.2	228
22	59.57	0.57	9.81	46.1	44.45	6.24	12.19	8.9	31.5	219
23	60.50	0.51	9.26	42.4	43.21	6.07	12.23	8.8	30.3	213
24	63.88	0.42	8.90	39.6	42.15	5.92	12.23	8.8	28.6	210

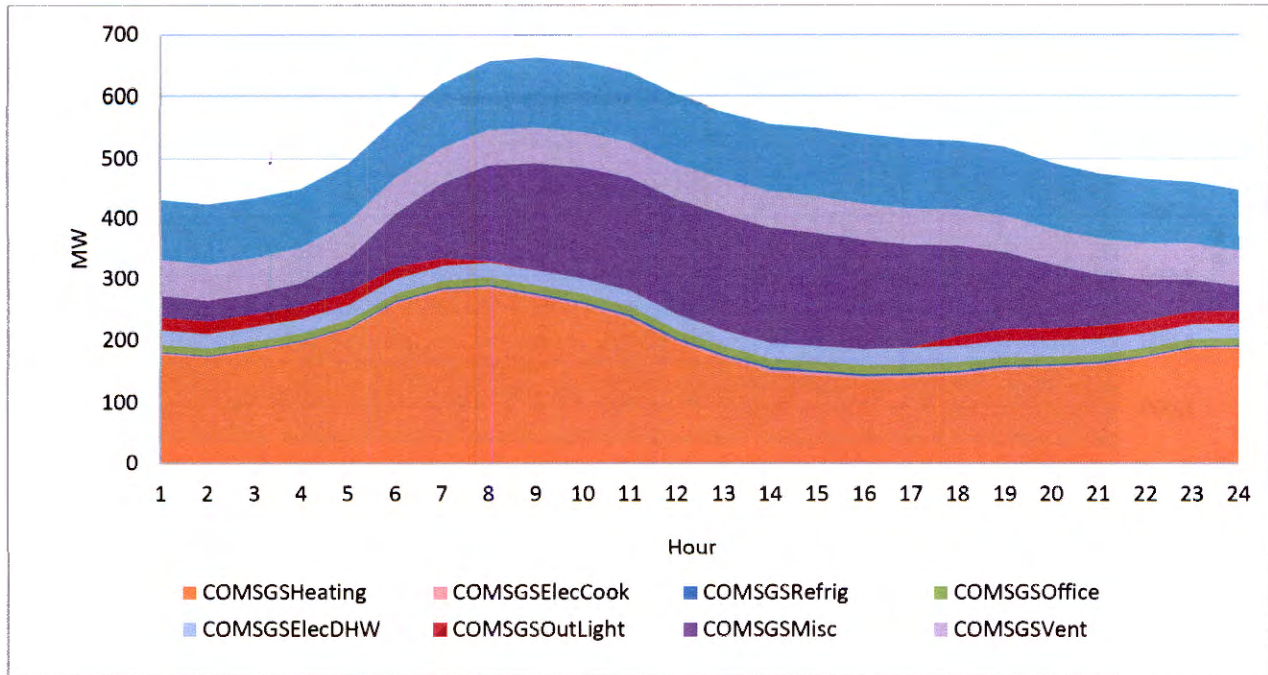
Load Profiles for Winter 2010 System Peak Day (MW)



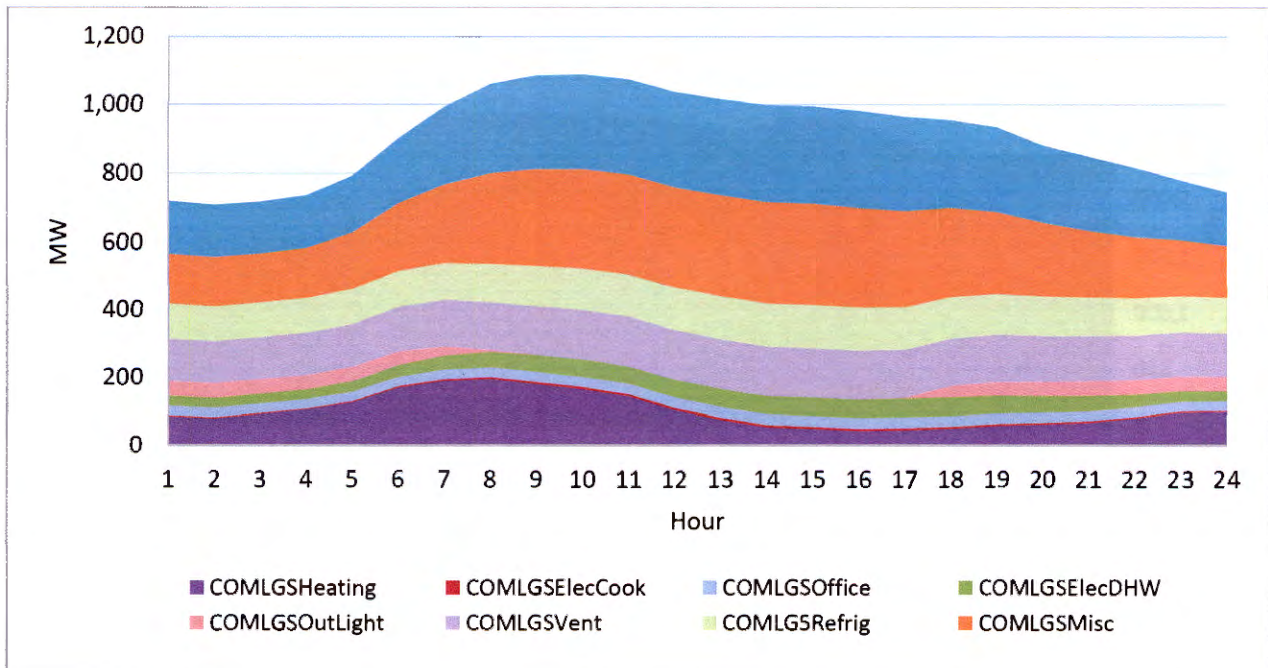
Winter 2010 System Peak Day: Residential End-Use Profiles (MW)



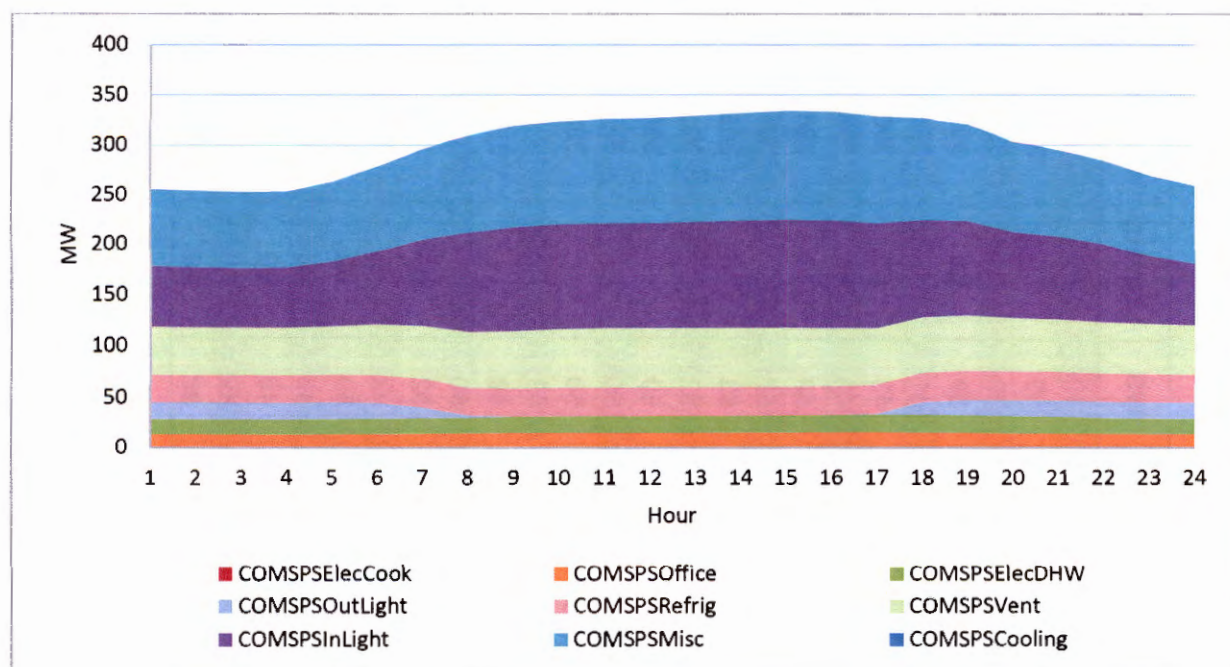
Winter 2010 System Peak Day: Commercial SGS End-Use Profiles (MW)



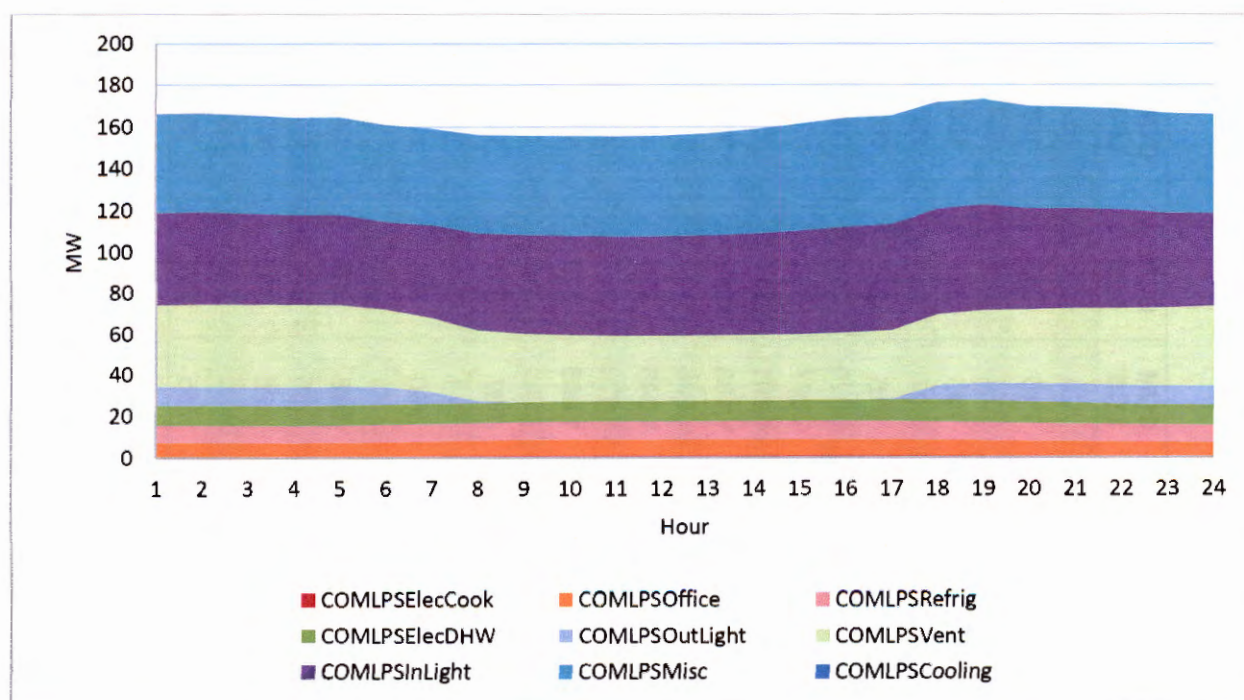
Winter 2010 System Peak Day: Commercial LGS End-Use Profiles (MW)



Winter 2010 System Peak Day: Commercial SPS End-Use Profiles (MW)



Winter 2010 System Peak Day: Commercial LPS End-Use Profiles (MW)



Load Profiles for Winter 2010 System Peak Day (MW)

Hour	RES	COM SGS	COM LGS	COM SPS	COM LPS	IND SGS	IND LGS	IND SPS	IND LPS	WS	Lighting	Noranda	Total
1	2,524	436	728	254	167	20.75	102	132	254	40	60	398	5,115
2	2,429	428	716	252	168	20.83	104	130	253	39	60	398	4,998
3	2,403	439	726	251	167	21.05	105	129	254	39	60	398	4,992
4	2,394	455	745	251	166	22.03	103	125	253	39	60	398	5,011
5	2,430	498	804	261	166	22.06	107	129	254	41	60	398	5,168
6	2,583	571	915	276	162	24.03	113	133	258	43	60	398	5,537
7	2,701	629	1,010	294	160	29.68	129	140	264	49	60	398	5,864
8	2,725	665	1,077	308	157	31.75	138	143	266	52	15	398	5,976
9	2,572	671	1,101	317	157	33.38	141	147	266	52	-	398	5,856
10	2,638	664	1,103	322	157	34.97	140	149	265	53	-	398	5,923
11	2,688	646	1,086	324	157	29.62	141	150	260	52	-	398	5,930
12	2,725	608	1,046	325	157	29.42	134	150	257	50	-	398	5,880
13	2,729	583	1,023	327	158	28.44	131	151	257	50	-	398	5,836
14	2,722	562	1,005	329	160	28.79	136	151	256	50	-	398	5,798
15	2,740	555	1,001	332	163	27.32	135	146	259	49	-	398	5,805
16	2,847	545	987	331	165	24.97	129	141	255	49	-	398	5,873
17	2,968	537	971	326	167	21.60	114	140	254	50	-	398	5,947
18	3,139	534	960	324	173	21.29	111	136	252	52	51	398	6,152
19	3,311	525	941	319	174	20.30	108	134	252	52	61	402	6,299
20	3,257	498	888	302	171	18.13	100	132	248	50	60	398	6,121
21	3,206	480	856	293	171	18.33	98	129	246	48	60	398	6,000
22	3,029	471	825	282	170	17.54	96	129	245	46	60	398	5,767
23	2,809	466	789	267	168	17.82	90	120	247	42	60	398	5,474
24	2,659	453	755	257	167	17.97	86	115	245	38	60	398	5,251

Winter 2010 System Peak Day: Profile for Residential End Uses (MW)

Hour	Cl Wash	Refrig	Misc	Lighting	Heating	Freezer	Dryer	DHW	Cooker	Dishwasher	Cooling	TV	Total
1	0.16	57	329	142	1,863	14.61	15.22	50	1.67	15.69	-	36	2,524
2	(0.00)	56	329	85	1,860	14.20	5.99	38	0.92	4.71	-	36	2,429
3	0.13	54	329	60	1,872	13.86	2.50	35	1.10	0.84	-	34	2,403
4	0.53	53	329	38	1,887	13.39	0.33	38	1.52	0.23	-	33	2,394
5	1.93	52	335	56	1,885	12.44	0.00	54	3.36	(0.00)	-	29	2,430
6	7.17	51	345	108	1,873	12.03	10.66	102	23.71	12.67	-	37	2,583
7	12.78	53	330	166	1,802	12.17	59.20	166	42.14	18.29	-	40	2,701
8	17.96	56	330	172	1,752	12.85	90.75	171	48.70	34.54	-	39	2,725
9	14.73	56	306	114	1,766	14.47	77.41	129	28.63	37.26	-	28	2,572
10	14.62	53	308	96	1,847	15.94	103.74	108	25.31	36.75	-	29	2,638
11	12.70	52	308	79	1,924	17.32	119.72	88	27.67	27.92	-	32	2,688
12	10.52	52	311	64	1,981	18.27	120.10	77	32.49	25.82	-	34	2,725
13	9.24	52	310	63	1,997	19.63	112.25	72	29.35	29.12	-	37	2,729
14	8.88	52	310	62	1,999	20.85	101.08	69	27.33	29.28	-	43	2,722
15	8.73	54	312	61	2,021	21.66	91.12	66	32.75	22.01	-	49	2,740
16	9.49	59	320	73	2,041	22.34	95.99	73	67.01	22.00	-	64	2,847
17	9.70	68	331	117	2,036	22.20	96.98	83	106.59	21.78	-	76	2,968
18	9.86	80	327	267	1,999	21.25	95.23	93	131.49	31.04	-	83	3,139
19	9.35	95	330	439	1,962	20.63	95.38	105	108.13	57.08	-	90	3,311
20	7.78	91	328	525	1,901	19.49	91.03	102	39.98	62.85	-	89	3,257
21	6.53	87	328	544	1,878	18.81	84.66	94	21.46	54.98	-	89	3,206
22	3.23	80	328	481	1,852	17.86	71.40	76	10.20	33.49	-	77	3,029
23	1.07	67	328	355	1,845	16.91	52.75	59	3.53	20.78	-	59	2,809
24	0.06	60	328	232	1,877	15.29	28.51	54	0.37	17.77	-	46	2,659

Winter 2010 System Peak Day: Profile for Commercial SGS End Uses (MW)

Hour	Refrig	Outdoor Light	Office	Misc	Indoor Light	Heating	Electric DHW	Electric Cook	Cooling	Vent	Total
1	1.96	20.84	12.19	35	99	183	22.96	2.27	-	59	436
2	1.87	20.84	12.18	33	99	177	22.89	2.27	-	59	428
3	1.83	20.84	12.14	33	98	189	22.87	2.06	-	59	439
4	1.85	20.84	12.11	37	97	203	22.87	1.56	-	59	455
5	2.01	20.84	12.21	56	98	225	23.30	2.10	-	59	498
6	2.34	19.50	12.33	88	96	268	23.45	2.69	-	59	571
7	2.59	13.32	12.53	123	103	288	23.74	3.21	-	59	629
8	2.96	2.59	12.86	159	108	293	23.54	3.78	-	59	665
9	3.47	-	13.15	178	110	278	24.31	3.98	-	59	671
10	3.84	-	13.23	184	111	263	24.65	4.07	-	59	664
11	3.92	-	13.30	187	111	242	24.94	4.11	-	59	646
12	3.94	-	13.33	189	111	202	24.86	4.10	-	59	608
13	4.03	-	13.37	190	112	175	25.02	4.17	-	59	583
14	4.06	-	13.50	189	113	154	25.13	4.19	-	59	562
15	4.10	-	13.60	185	115	149	25.40	4.14	-	59	555
16	4.05	-	13.78	178	118	143	25.81	4.01	-	59	545
17	3.85	0.98	13.87	167	117	145	26.29	3.90	-	59	537
18	3.67	16.05	13.53	146	116	149	26.65	3.60	-	59	534
19	3.40	19.09	13.35	125	116	158	26.49	3.33	-	60	525
20	3.16	20.13	12.89	103	110	160	25.61	2.99	-	59	498
21	2.91	20.77	12.67	83	109	165	25.07	2.87	-	59	480
22	2.56	20.84	12.55	66	107	176	23.31	2.75	-	59	471
23	2.31	20.84	12.37	52	103	192	22.87	2.52	-	59	466
24	2.08	20.84	12.23	40	100	194	23.05	2.29	-	59	453

Winter 2010 System Peak Day: Profile for Commercial LGS End Uses (MW)

Hour	Cooling	Electric Cook	Electric DHW	Heating	Indoor Light	Misc	Office	Outdoor Light	Refrigerator	Vent	Total
1	-	3.89	29.11	90	153	150	27.32	43.66	104	128	728
2	-	3.89	28.76	84	151	148	27.30	43.66	103	126	716
3	-	3.52	28.65	98	150	147	27.21	43.66	102	126	726
4	-	2.68	28.65	113	152	150	27.16	43.66	103	126	745
5	-	3.60	30.89	135	164	167	27.46	43.65	104	128	804
6	-	4.61	35.50	181	188	196	27.87	40.84	108	133	915
7	-	5.49	42.33	203	226	228	28.47	27.95	111	138	1,010
8	-	6.47	46.29	209	260	263	29.36	5.48	115	142	1,077
9	-	6.82	51.22	192	273	282	30.08	-	121	145	1,101
10	-	6.96	52.05	176	276	288	30.30	-	125	147	1,103
11	-	7.04	52.48	153	277	291	30.46	-	126	149	1,086
12	-	7.02	52.83	110	277	293	30.53	-	126	149	1,046
13	-	7.13	53.48	80	280	296	30.63	-	127	149	1,023
14	-	7.17	53.27	57	283	298	30.91	-	128	149	1,005
15	-	7.09	53.70	52	284	297	31.12	-	128	148	1,001
16	-	6.87	54.30	45	283	293	31.48	-	127	146	987
17	-	6.68	55.05	47	275	283	31.59	2.12	125	144	971
18	-	6.17	55.05	53	255	262	30.75	33.87	123	142	960
19	-	5.70	52.93	62	247	241	30.27	40.18	121	142	941
20	-	5.12	49.20	66	224	217	29.16	42.25	117	138	888
21	-	4.91	45.75	71	215	197	28.60	43.52	114	135	856
22	-	4.71	37.09	85	202	181	28.25	43.66	110	133	825
23	-	4.32	31.91	103	173	167	27.80	43.66	108	132	789
24	-	3.93	29.61	106	155	155	27.42	43.66	105	129	755

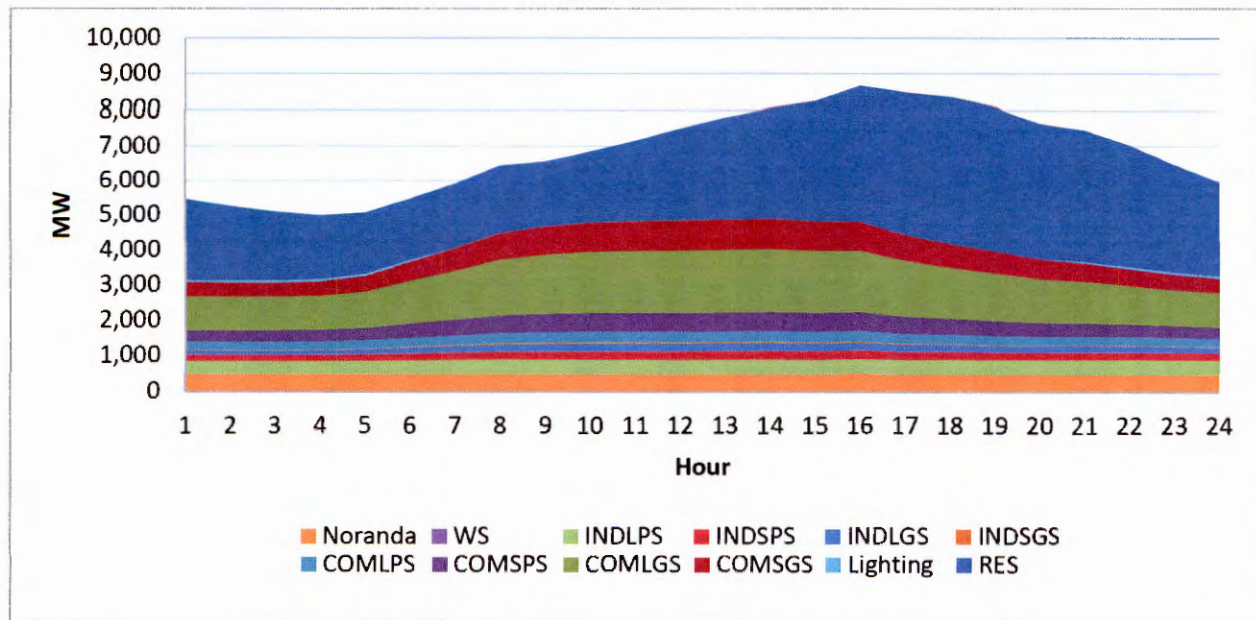
Winter 2010 System Peak Day: Profile for Commercial SPS End Uses (MW)

Hour	Cooling	Electric Cook	Electric DHW	Indoor Light	Misc	Office	Outdoor Light	Refrigerator	Vent	Total
1	-	0.72	14.97	59	77	12.78	16.52	26.51	46	254
2	-	0.72	14.92	59	76	12.77	16.52	26.43	46	252
3	-	0.65	14.90	58	76	12.73	16.52	26.41	46	251
4	-	0.50	14.90	59	76	12.69	16.52	26.42	46	251
5	-	0.67	15.21	63	79	12.76	16.52	26.56	46	261
6	-	0.86	15.38	71	84	12.80	15.45	26.83	49	276
7	-	1.02	15.66	85	90	12.90	10.56	27.06	51	294
8	-	1.20	15.60	97	98	13.15	2.05	27.42	53	308
9	-	1.26	16.16	102	102	13.41	-	27.85	55	317
10	-	1.29	16.38	103	103	13.48	-	28.15	56	322
11	-	1.31	16.57	103	104	13.54	-	28.20	57	324
12	-	1.30	16.53	103	105	13.57	-	28.21	57	325
13	-	1.32	16.64	104	106	13.61	-	28.27	57	327
14	-	1.33	16.70	106	107	13.75	-	28.30	57	329
15	-	1.31	16.89	106	109	13.88	-	28.32	56	332
16	-	1.27	17.15	106	109	14.10	-	28.28	56	331
17	-	1.24	17.47	103	107	14.23	0.78	28.12	55	326
18	-	1.14	17.69	96	102	13.94	12.72	27.93	53	324
19	-	1.06	17.56	93	97	13.79	15.13	27.86	53	319
20	-	0.95	16.95	85	91	13.36	15.96	27.44	51	302
21	-	0.91	16.55	82	87	13.17	16.47	27.22	50	293
22	-	0.87	15.31	77	83	13.08	16.52	26.96	49	282
23	-	0.80	14.95	67	80	12.93	16.52	26.77	48	267
24	-	0.73	15.03	60	78	12.81	16.52	26.60	47	257

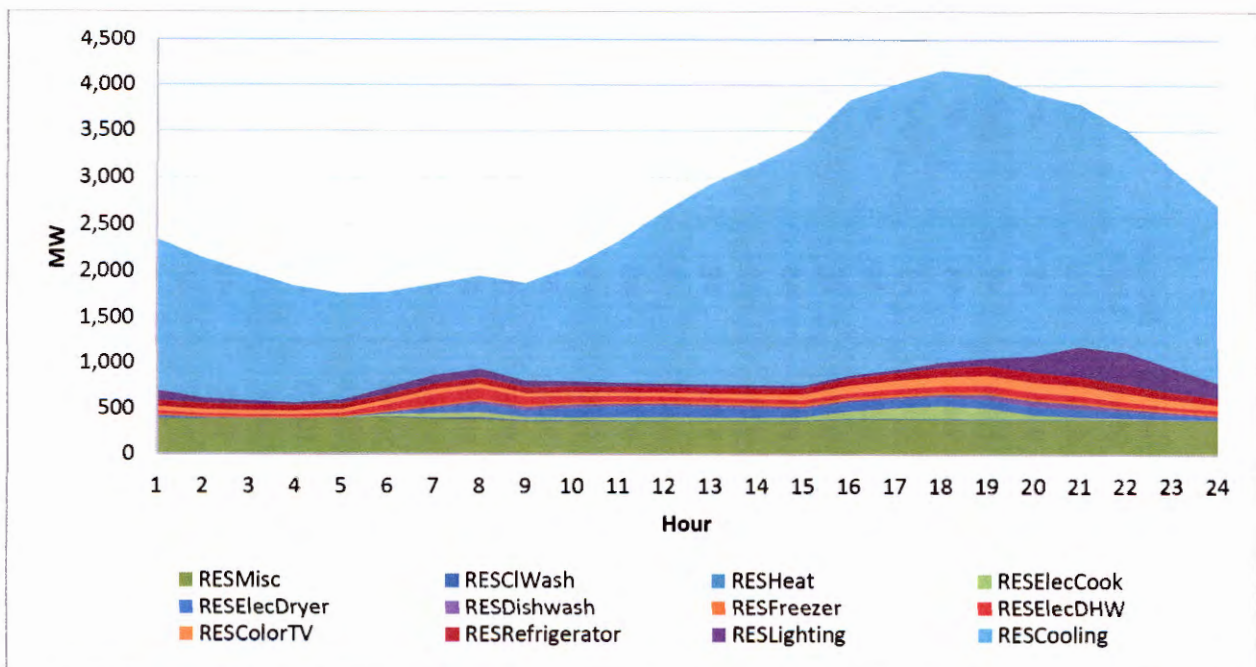
Winter 2010 System Peak Day: Profile for Commercial LPS End Uses (MW)

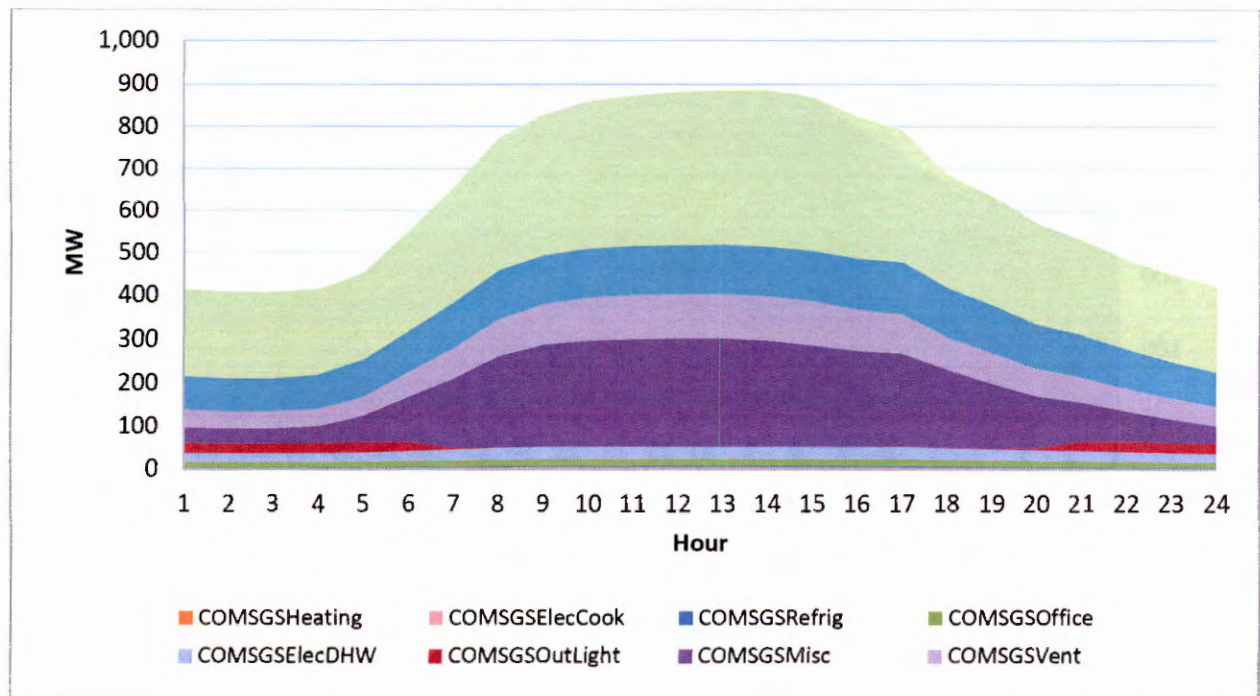
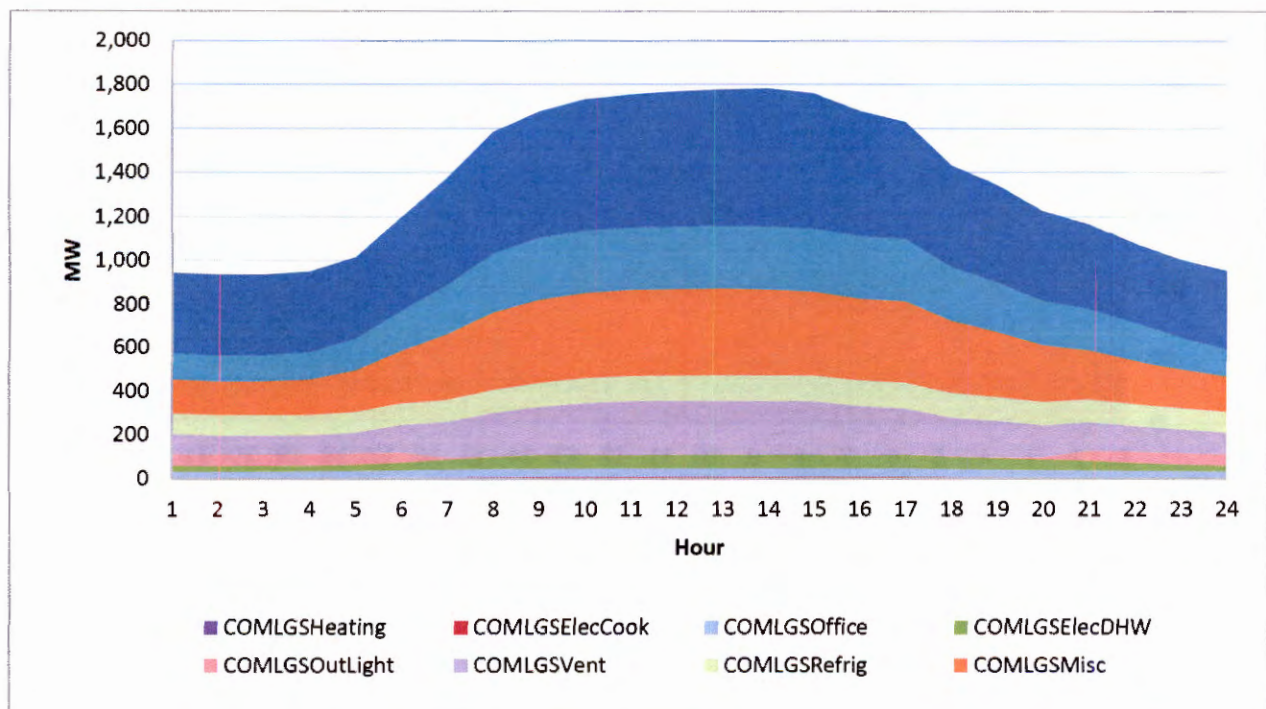
Hour	Cooling	Electric Cook	Electric DHW	Indoor Light	Misc	Office	Outdoor Light	Refrigerator	Vent	Total
1	-	0.49	9.47	45	47	6.59	9.30	8.65	40	167
2	-	0.49	9.45	45	47	6.58	9.30	8.63	41	168
3	-	0.44	9.44	45	47	6.56	9.30	8.62	41	167
4	-	0.34	9.44	44	47	6.56	9.30	8.62	41	166
5	-	0.45	9.57	44	47	6.65	9.30	8.67	40	166
6	-	0.58	9.52	43	46	6.80	8.70	8.76	38	162
7	-	0.69	9.48	46	46	7.00	5.94	8.84	37	160
8	-	0.81	9.29	48	47	7.27	1.16	8.96	35	157
9	-	0.86	9.50	49	48	7.47	-	9.10	34	157
10	-	0.88	9.63	49	48	7.53	-	9.20	33	157
11	-	0.89	9.75	49	48	7.57	-	9.22	32	157
12	-	0.89	9.71	49	48	7.59	-	9.22	32	157
13	-	0.90	9.76	49	49	7.62	-	9.24	32	158
14	-	0.90	9.81	50	50	7.68	-	9.25	33	160
15	-	0.89	9.92	51	51	7.73	-	9.26	33	163
16	-	0.87	10.09	52	52	7.79	-	9.24	33	165
17	-	0.84	10.28	52	52	7.79	0.44	9.19	34	167
18	-	0.78	10.44	52	51	7.56	7.16	9.13	35	173
19	-	0.72	10.43	52	51	7.42	8.52	9.10	36	174
20	-	0.64	10.13	49	49	7.12	8.99	8.96	37	171
21	-	0.62	9.98	49	49	6.96	9.27	8.89	37	171
22	-	0.59	9.42	48	48	6.86	9.30	8.80	38	170
23	-	0.54	9.35	46	48	6.73	9.30	8.74	39	168
24	-	0.50	9.50	45	47	6.62	9.30	8.68	40	167

Load Profiles for Summer 2015 System Peak Day (MW)

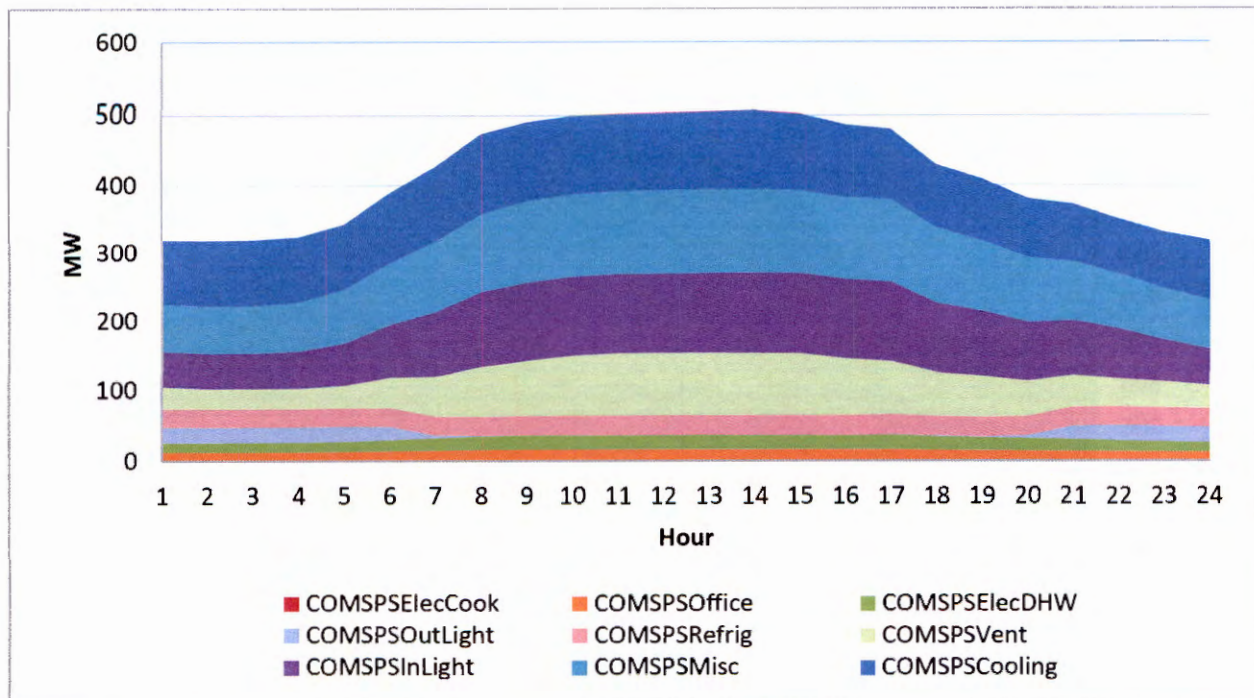


Summer 2015 System Peak Day: Residential End-Use Profiles (MW)

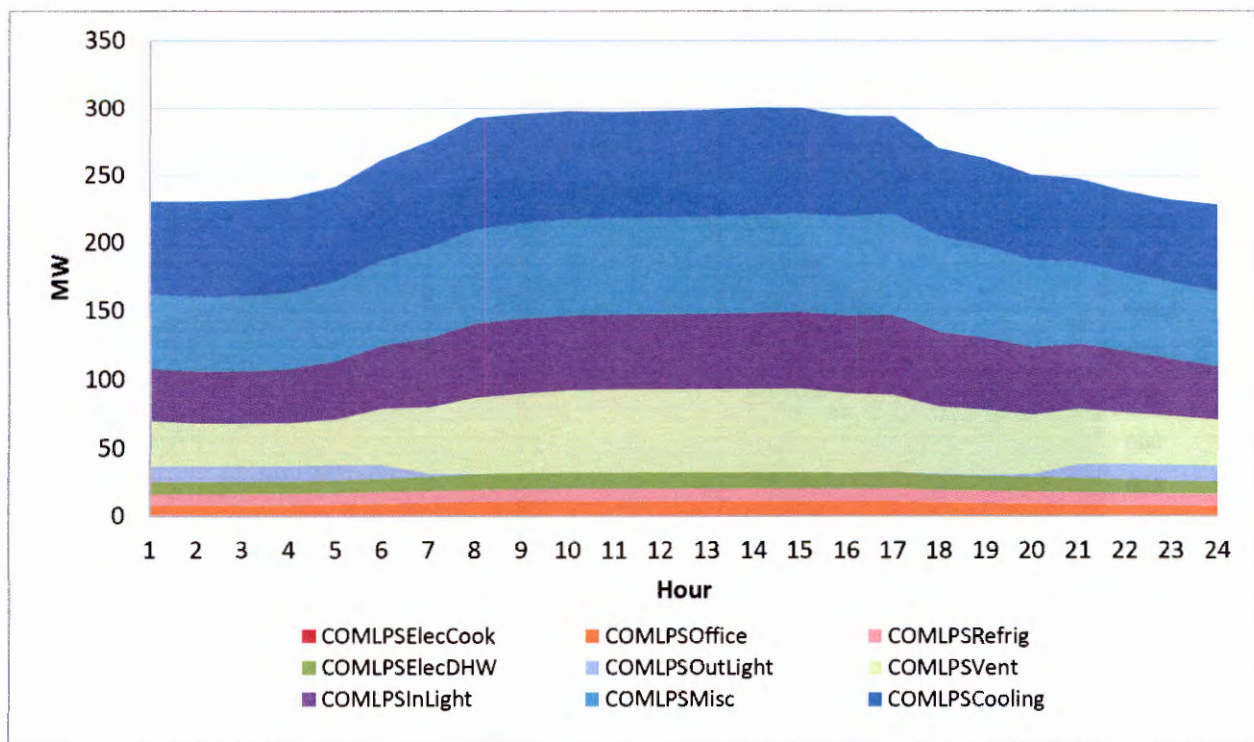


Summer 2015 System Peak Day: Commercial SGS End-Use Profiles (MW)**Summer 2015 System Peak Day: Commercial LGS End-Use Profiles (MW)**

Summer 2015 System Peak Day: Commercial SPS End-Use Profiles (MW)



Summer 2015 System Peak Day: Commercial LPS End-Use Profiles (MW)



Load Profiles for Summer 2015 System Peak Day (MW)

Hour	RES	COM SGS	COM LGS	COM SPS	COM LPS	IND SGS	IND LGS	IND SPS	IND LPS	WS	Lighting	Noranda	Total
1	2,345	415	945	333	231	11.67	114	181	358	-	56.81	492	5,481
2	2,143	410	936	332	231	11.53	115	181	361	-	56.81	492	5,269
3	1,987	409	937	333	231	11.17	116	180	357	-	56.81	492	5,111
4	1,840	416	950	338	233	11.66	121	181	360	-	56.81	492	5,000
5	1,763	454	1,016	358	242	13.85	134	185	369	-	56.81	492	5,083
6	1,776	554	1,199	406	262	20.12	157	196	381	-	49.23	492	5,493
7	1,864	657	1,377	447	275	24.64	180	211	396	-	-	492	5,923
8	1,949	775	1,585	496	293	30.05	198	222	411	-	-	492	6,451
9	1,875	829	1,678	515	296	37.28	208	228	406	-	-	492	6,566
10	2,055	861	1,734	525	298	37.42	218	233	404	-	-	492	6,857
11	2,322	874	1,755	528	298	35.44	221	238	401	-	-	492	7,165
12	2,644	883	1,769	529	298	33.69	221	239	399	-	-	492	7,509
13	2,937	888	1,778	531	299	33.79	219	243	407	-	-	492	7,828
14	3,151	888	1,783	532	301	33.73	226	245	412	-	-	492	8,064
15	3,386	870	1,759	528	301	32.39	215	244	404	-	-	492	8,231
16	3,838	851	1,734	527	304	31.40	215	246	413	-	-	508	8,668
17	4,012	766	1,576	488	285	23.78	199	231	400	-	-	492	8,473
18	4,161	689	1,432	451	271	20.34	194	226	410	-	-	492	8,346
19	4,117	636	1,344	430	263	16.22	177	223	391	-	-	492	8,089
20	3,911	570	1,227	399	251	13.42	178	220	392	-	-	492	7,654
21	3,794	532	1,168	388	248	12.08	179	219	397	-	35.98	492	7,465
22	3,516	484	1,077	365	239	12.63	179	219	402	-	56.81	492	7,044
23	3,103	450	1,004	345	232	12.07	173	215	397	-	56.81	492	6,480
24	2,713	423	954	332	229	14.10	156	211	394	-	56.81	492	5,974

Summer 2015 System Peak Day: Residential End-Use Profiles (MW)

Hour	Cl. Wash	Refrig.	Misc	Lighting	Heating	Freezer	Dryer	Electric DHW	Cooker	Dish washer	Cooling	TV	Total
1	0.14	70	389	108	1.22	17.14	15.46	36.22	1.76	15.65	1,647	42.23	2,345
2	(0.00)	68	389	60	1.19	16.67	6.08	27.53	0.96	4.70	1,527	42.07	2,143
3	0.12	66	389	43	1.15	16.26	2.54	25.71	1.16	0.84	1,401	40.42	1,987
4	0.47	65	389	26	1.11	15.71	0.33	27.59	1.60	0.23	1,275	38.47	1,840
5	1.69	65	396	40	1.09	14.60	0.00	39.57	3.54	(0.00)	1,167	34.71	1,763
6	6.31	63	409	73	-	14.12	10.83	74.11	24.94	12.65	1,045	43.20	1,776
7	11.25	65	390	95	1.09	14.28	60.16	120.58	44.34	18.25	997	47.08	1,864
8	15.80	69	391	96	1.14	15.07	92.22	124.52	51.24	34.46	1,012	45.95	1,949
9	12.97	70	363	69	1.21	16.98	78.66	93.66	30.12	37.17	1,069	33.34	1,875
10	12.87	66	365	57	1.31	18.70	105.42	78.38	26.63	36.67	1,253	34.34	2,055
11	11.17	65	365	44	1.43	20.32	121.66	63.85	29.12	27.86	1,536	37.33	2,322
12	9.26	64	368	38	1.55	21.44	122.05	56.10	34.18	25.77	1,864	39.51	2,644
13	8.13	65	367	38	1.65	23.03	114.06	52.02	30.88	29.06	2,166	43.17	2,937
14	7.82	66	367	36	1.74	24.46	102.71	49.84	28.75	29.22	2,387	50.35	3,151
15	7.68	69	369	32	1.78	25.42	92.59	47.98	34.46	21.96	2,626	58.32	3,386
16	8.62	78	390	34	1.76	27.04	100.63	54.83	72.73	22.64	2,970	78.22	3,838
17	8.54	86	391	35	1.57	26.05	98.55	60.37	112.14	21.73	3,081	89.68	4,012
18	8.67	100	387	59	1.56	24.94	96.77	67.76	138.35	30.97	3,148	97.33	4,161
19	8.15	111	387	84	1.56	23.98	96.04	75.24	112.74	56.44	3,055	104.81	4,117
20	6.85	107	388	185	1.53	22.87	92.50	74.37	42.06	62.71	2,823	105.21	3,911
21	5.74	103	388	333	1.45	22.07	86.03	68.38	22.58	54.85	2,605	104.36	3,794
22	2.84	99	388	354	1.41	20.96	72.55	54.90	10.73	33.41	2,388	90.28	3,516
23	0.94	85	389	271	1.36	19.85	53.60	43.13	3.72	20.73	2,146	69.82	3,103
24	0.05	76	388	167	1.29	17.94	28.97	39.17	0.39	17.73	1,922	54.71	2,713

Summer 2015 System Peak Day: Commercial SGS End-Use Profiles (MW)

Hour	Refrig	Outdoor Light	Office	Misc	Indoor Light	Heating	Electric DHW	Electric Cook	Cooling	Vent	Total
1	1.78	24.58	12.33	36	77	0.09	20.55	1.83	198	42.97	415
2	1.70	24.58	12.32	34	76	0.08	20.49	1.83	198	40.31	410
3	1.67	24.58	12.44	34	77	0.09	20.47	1.99	196	40.31	409
4	1.68	24.58	12.62	40	79	0.09	20.47	2.30	196	40.31	416
5	1.83	24.53	13.09	63	86	0.10	21.20	2.74	199	43.50	454
6	2.13	21.52	13.87	106	94	-	22.99	3.22	234	56.39	554
7	2.35	4.50	14.76	160	104	0.12	25.66	3.67	272	70.11	657
8	2.69	0.78	15.69	212	112	0.13	27.88	4.19	316	83.87	775
9	3.17	-	16.12	237	114	0.12	29.13	4.39	335	90.63	829
10	3.50	-	16.22	246	114	0.11	28.98	4.47	351	96.61	861
11	3.59	-	16.29	250	114	0.11	28.76	4.51	358	99.34	874
12	3.61	-	16.33	251	114	0.09	29.07	4.47	365	99.34	883
13	3.70	-	16.37	251	115	0.08	29.15	4.51	368	99.34	888
14	3.73	-	16.42	246	116	0.07	28.94	4.51	373	99.32	888
15	3.77	-	16.37	235	117	0.07	28.85	4.54	366	99.31	870
16	3.83	-	16.72	230	122	0.07	29.58	4.55	349	95.21	851
17	3.53	0.43	15.77	209	117	0.07	28.41	4.20	304	84.43	766
18	3.37	1.08	15.09	181	112	0.07	27.88	3.87	270	74.21	689
19	3.09	1.15	14.57	151	108	0.10	26.78	3.52	257	70.97	636
20	2.88	4.64	14.00	121	101	0.11	25.70	3.13	235	62.91	570
21	2.65	21.44	13.51	93	97	0.11	24.77	2.79	220	57.22	532
22	2.32	24.51	12.97	72	92	0.12	23.19	2.57	204	51.54	484
23	2.10	24.58	12.66	55	84	0.13	21.63	2.30	198	48.77	450
24	1.89	24.58	12.40	42	78	0.13	20.63	1.90	197	45.03	423

Summer 2015 System Peak Day: Commercial LGS End-Use Profiles (MW)

Hour	Cooling	Electric Cook	Electric DHW	Heating	Indoor Light	Misc	Office	Outdoor Light	Refrig	Vent	Total
1	371	3.17	26.11	0.04	119	157	27.94	52.11	95	93	945
2	374	3.17	25.79	0.04	117	155	27.90	52.11	94	86	936
3	373	3.44	25.69	0.04	117	156	28.18	52.11	94	86	937
4	372	3.99	25.69	0.05	125	163	28.62	52.11	94	86	950
5	375	4.74	28.16	0.06	145	192	29.75	51.99	96	94	1,016
6	429	5.58	34.87	-	185	242	31.69	45.62	99	126	1,199
7	485	6.35	45.84	0.08	229	302	33.89	9.57	102	162	1,377
8	552	7.25	54.92	0.09	270	357	36.21	1.68	106	200	1,585
9	575	7.61	61.49	0.08	282	383	37.27	-	112	220	1,678
10	596	7.74	61.31	0.07	285	392	37.54	-	115	239	1,734
11	603	7.80	60.65	0.06	286	395	37.70	-	117	248	1,755
12	613	7.74	61.88	0.05	286	397	37.82	-	117	248	1,769
13	617	7.80	62.43	0.03	288	399	37.92	-	118	248	1,778
14	625	7.80	61.49	0.02	290	395	38.00	-	118	247	1,783
15	612	7.85	61.10	0.02	289	385	37.86	-	119	247	1,759
16	587	7.88	62.37	0.02	295	387	38.58	-	122	234	1,734
17	515	7.27	59.60	0.02	276	361	36.32	0.93	116	205	1,576
18	462	6.70	57.71	0.02	247	331	34.66	2.31	114	177	1,432
19	444	6.10	53.63	0.04	230	296	33.40	2.45	111	167	1,344
20	412	5.42	49.48	0.04	205	259	32.01	9.85	108	146	1,227
21	389	4.83	45.29	0.05	192	224	30.81	45.45	105	131	1,168
22	365	4.45	36.97	0.05	173	199	29.51	51.96	101	116	1,077
23	359	3.98	30.25	0.07	142	180	28.76	52.11	99	108	1,004
24	362	3.29	26.56	0.07	122	164	28.12	52.11	97	98	954