

**Part 1 - Appendix 3C
Evergy Reports**

**Missouri 4 CSR 240-22.030 (7)(A)(7) Reporting Requirements
Load Analysis and Forecasting**

The utility shall provide plots for the net system load profiles for the summer peak day and the winter peak day showing the contribution of each major class. The plots shall be provided in the triennial filing for the base year of the forecast and for the fifth, tenth, and twentieth years of the forecast. Plots for all years shall be included in the workpapers supplied at the time of the triennial filing.

Compliance: See Plots 3C-1 through 3C-5 for base-case MO West forecast reports designed to comply with section (7)(A)(7) reporting requirements.

Linked Files:

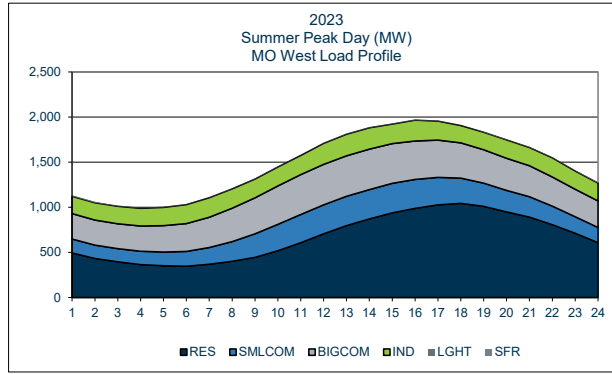
7_Data_Calib.xls

West_SystemLoad.ltm

System.ltm

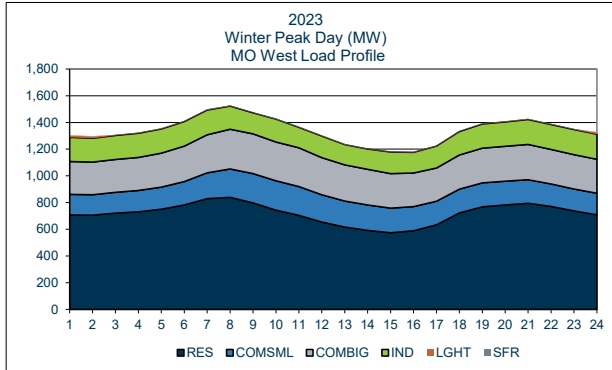
Plot 3C-1 MO West System Peak Day Loads by Class (Summer 2023)
Summer Peak Day (MW)

		MO West						
Date	Hr	RES	SMLCOM	BIGCOM	IND	LGHT	SFR	Total
7/20/23	1	495	154	280	193	10	2	1,135
7/20/23	2	434	148	276	192	11	2	1,063
7/20/23	3	395	147	277	192	3	2	1,015
7/20/23	4	366	147	280	196	3	2	994
7/20/23	5	352	153	292	201	3	2	1,002
7/20/23	6	347	164	309	209	3	2	1,033
7/20/23	7	370	184	336	216	-	2	1,108
7/20/23	8	402	219	369	214	-	2	1,206
7/20/23	9	446	260	400	208	-	3	1,317
7/20/23	10	520	292	425	211	-	3	1,451
7/20/23	11	609	313	441	211	-	3	1,577
7/20/23	12	706	322	447	232	-	4	1,711
7/20/23	13	797	324	449	239	-	4	1,813
7/20/23	14	871	326	448	236	-	4	1,885
7/20/23	15	938	327	442	214	-	4	1,925
7/20/23	16	989	319	427	230	-	4	1,970
7/20/23	17	####	305	412	212	-	4	1,960
7/20/23	18	####	278	391	190	-	4	1,909
7/20/23	19	####	255	371	194	-	4	1,836
7/20/23	20	948	239	356	204	-	3	1,751
7/20/23	21	891	226	345	200	3	3	1,668
7/20/23	22	808	205	324	211	3	3	1,554
7/20/23	23	713	184	305	202	3	3	1,408
7/20/23	24	608	169	293	198	11	2	1,281



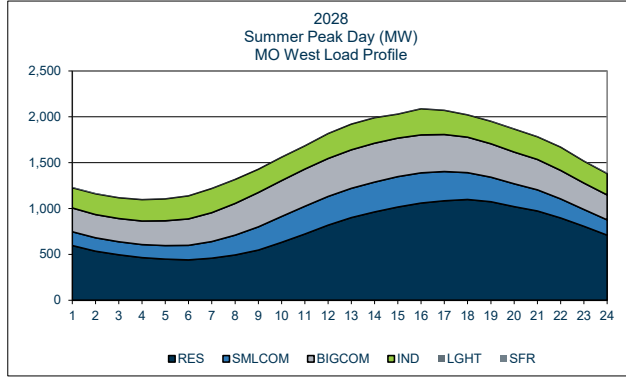
Plot 3C-2 MO West System Peak Day Loads by Class (Winter 2023)
Winter Peak Day (MW)

		MO West						
Date	Hr	RES	COMSML	COMBIG	IND	LGHT	SFR	System
1/31/23	1	708	154	246	180	14	3	1,305
1/31/23	2	705	153	244	178	14	3	1,299
1/31/23	3	721	156	246	179	3	3	1,308
1/31/23	4	732	159	248	180	3	3	1,324
1/31/23	5	750	165	255	180	3	3	1,356
1/31/23	6	782	175	266	182	3	3	1,412
1/31/23	7	830	193	285	185	3	3	1,499
1/31/23	8	840	212	297	173	3	4	1,529
1/31/23	9	798	220	297	156	-	4	1,475
1/31/23	10	744	218	292	171	-	4	1,428
1/31/23	11	705	215	290	154	-	3	1,367
1/31/23	12	655	204	278	161	-	3	1,301
1/31/23	13	617	195	271	152	-	3	1,238
1/31/23	14	591	191	268	151	-	3	1,204
1/31/23	15	574	184	258	161	-	3	1,181
1/31/23	16	589	181	252	154	-	3	1,179
1/31/23	17	634	177	249	164	-	3	1,226
1/31/23	18	722	178	256	175	-	3	1,334
1/31/23	19	769	179	260	181	3	3	1,395
1/31/23	20	782	178	261	183	3	3	1,410
1/31/23	21	795	176	264	187	3	3	1,428
1/31/23	22	771	168	259	186	3	3	1,391
1/31/23	23	738	164	257	187	3	3	1,352
1/31/23	24	709	161	255	187	14	3	1,329



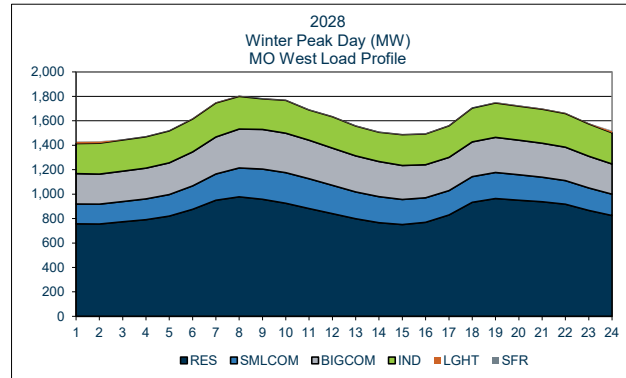
Plot 3C-3 MO West System Peak Day Loads by Class (Summer 2028)
Summer Peak Day (MW)

		MO West						
Date	Hr	RES	SMLCOM	BIGCOM	IND	LGHT	SFR	Total
7/20/28	1	596	151	258	220	8	2	1,236
7/20/28	2	536	145	254	227	8	2	1,171
7/20/28	3	495	142	254	227	2	2	1,122
7/20/28	4	465	142	257	233	2	2	1,101
7/20/28	5	449	147	270	239	2	2	1,109
7/20/28	6	440	159	288	251	2	2	1,142
7/20/28	7	459	180	316	263	-	2	1,220
7/20/28	8	495	214	347	262	-	2	1,320
7/20/28	9	548	253	374	254	-	3	1,431
7/20/28	10	631	282	393	255	-	3	1,563
7/20/28	11	723	302	406	254	-	3	1,688
7/20/28	12	818	314	414	272	-	3	1,822
7/20/28	13	902	319	420	279	-	4	1,923
7/20/28	14	963	326	423	278	-	4	1,994
7/20/28	15	1,017	330	421	261	-	4	2,034
7/20/28	16	1,060	329	414	285	-	4	2,092
7/20/28	17	1,084	319	405	263	-	4	2,075
7/20/28	18	1,098	293	386	244	-	4	2,026
7/20/28	19	1,074	268	364	245	-	4	1,955
7/20/28	20	1,021	248	347	251	-	4	1,871
7/20/28	21	973	232	332	246	2	3	1,788
7/20/28	22	898	208	309	254	2	3	1,674
7/20/28	23	807	184	287	240	2	3	1,523
7/20/28	24	710	167	272	233	8	2	1,393



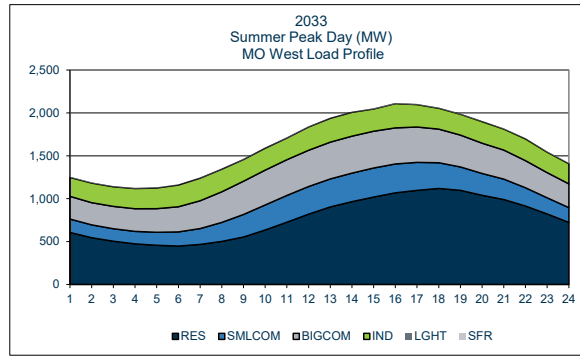
Plot 3C-4 MO West System Peak Day Loads by Class (Winter 2028)
Winter Peak Day (MW)

		MO West						
Date	Hr	RES	SMLCOM	BIGCOM	IND	LGHT	SFR	Total
1/7/28	1	756	163	248	246	13	3	1,430
1/7/28	2	756	162	246	253	13	3	1,434
1/7/28	3	774	165	248	255	3	3	1,448
1/7/28	4	792	169	252	256	3	3	1,474
1/7/28	5	820	177	260	260	3	3	1,522
1/7/28	6	876	192	278	269	3	3	1,621
1/7/28	7	949	215	303	278	3	4	1,752
1/7/28	8	978	236	318	267	3	4	1,806
1/7/28	9	958	247	325	250	-	4	1,784
1/7/28	10	926	249	323	269	-	4	1,771
1/7/28	11	882	243	316	247	-	4	1,693
1/7/28	12	840	232	305	256	-	4	1,637
1/7/28	13	798	220	295	244	-	4	1,561
1/7/28	14	767	213	287	241	-	4	1,511
1/7/28	15	751	206	277	252	-	4	1,489
1/7/28	16	769	201	270	253	-	4	1,496
1/7/28	17	829	201	271	258	-	4	1,562
1/7/28	18	932	210	284	276	-	4	1,708
1/7/28	19	965	212	287	282	3	4	1,753
1/7/28	20	951	207	283	279	3	4	1,727
1/7/28	21	938	201	279	277	3	4	1,701
1/7/28	22	917	194	273	275	3	4	1,665
1/7/28	23	867	184	259	265	3	4	1,581
1/7/28	24	825	175	247	255	14	3	1,520



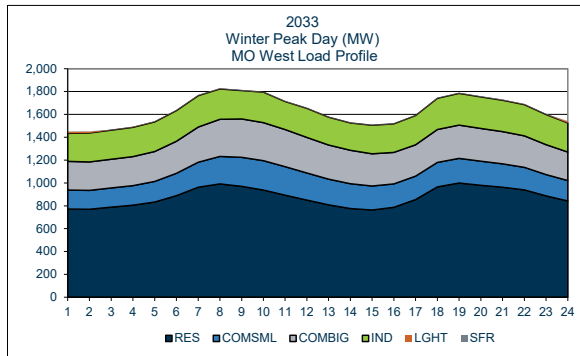
Plot 3C-5 MO West System Peak Day Loads by Class (Summer 2033)
Summer Peak Day (MW)

		MO West							
Date	Hr	RES	SMLCOM	BIGCOM	IND	LGHT	SFR	Total	
7/21/33	1	607	156	264	221	8	2	####	
7/21/33	2	545	149	260	227	8	2	####	
7/21/33	3	504	147	260	228	2	2	####	
7/21/33	4	473	146	264	234	2	2	####	
7/21/33	5	456	152	276	240	2	2	####	
7/21/33	6	448	164	295	251	2	2	####	
7/21/33	7	467	186	324	262	-	2	####	
7/21/33	8	503	222	357	261	-	2	####	
7/21/33	9	554	263	387	253	-	3	####	
7/21/33	10	636	291	406	254	-	3	####	
7/21/33	11	726	311	418	253	-	3	####	
7/21/33	12	821	322	423	270	-	3	####	
7/21/33	13	904	327	428	277	-	4	####	
7/21/33	14	965	333	431	276	-	4	####	
7/21/33	15	1,020	338	429	259	-	4	####	
7/21/33	16	1,068	336	421	282	-	4	####	
7/21/33	17	1,098	326	412	261	-	4	####	
7/21/33	18	1,119	300	393	242	-	4	####	
7/21/33	19	1,096	274	371	243	-	4	####	
7/21/33	20	1,040	254	354	249	-	4	####	
7/21/33	21	991	237	338	245	2	3	####	
7/21/33	22	915	214	315	252	2	3	####	
7/21/33	23	822	189	293	239	2	3	####	
7/21/33	24	724	172	278	233	8	2	####	



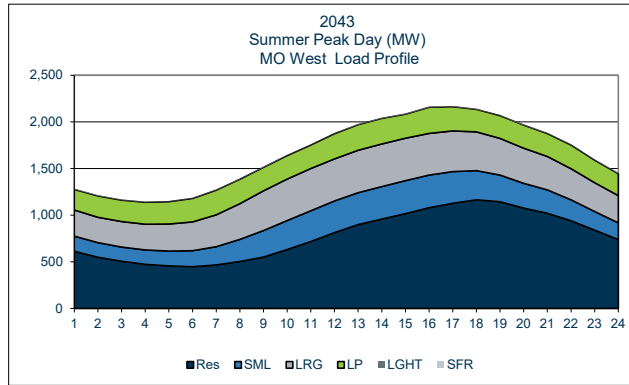
Plot 3C-6 MO West System Peak Day Loads by Class (Winter 2033)
Winter Peak Day (MW)

		MO West						System	
Date	Hr	RES	COMSML	COMBIG	IND	LGHT	SFR	Total	
1/7/33	1	771	167	251	246	13	3	980	
1/7/33	2	769	166	249	253	13	3	981	
1/7/33	3	788	168	251	254	3	3	975	
1/7/33	4	805	172	255	256	3	3	997	
1/7/33	5	833	180	263	258	3	3	####	
1/7/33	6	889	195	281	267	3	3	####	
1/7/33	7	962	220	307	275	3	4	####	
1/7/33	8	991	242	325	265	3	4	####	
1/7/33	9	970	255	336	248	-	4	####	
1/7/33	10	938	257	333	266	-	4	####	
1/7/33	11	893	250	325	245	-	4	####	
1/7/33	12	850	237	311	254	-	4	####	
1/7/33	13	809	224	300	243	-	4	####	
1/7/33	14	777	217	292	239	-	4	####	
1/7/33	15	763	210	282	250	-	4	####	
1/7/33	16	788	205	274	251	-	4	####	
1/7/33	17	855	205	275	255	-	4	####	
1/7/33	18	966	214	288	273	-	4	####	
1/7/33	19	999	216	291	278	3	4	####	
1/7/33	20	979	211	286	276	3	4	####	
1/7/33	21	963	205	282	275	3	4	####	
1/7/33	22	939	197	276	273	3	4	####	
1/7/33	23	887	187	261	263	3	4	####	
1/7/33	24	843	178	250	254	14	3	####	



Plot 3C-7 MO West System Peak Day Loads by Class (Summer 2043)
Summer Peak Day (MW)

		MO West						
Date	Hr	Res	SML	LRG	LP	LGHT	SFR	Total
7/23/43	1	613	164	278	221	8	2	1,325
7/23/43	2	548	156	273	228	8	2	1,248
7/23/43	3	505	154	273	228	2	2	1,185
7/23/43	4	474	153	276	234	2	2	1,148
7/23/43	5	456	159	289	240	2	2	1,133
7/23/43	6	447	172	309	251	2	2	1,165
7/23/43	7	466	196	342	262	-	2	1,212
7/23/43	8	504	237	383	260	-	2	1,287
7/23/43	9	552	284	426	251	-	3	1,413
7/23/43	10	631	312	443	251	-	3	1,552
7/23/43	11	717	330	452	251	-	3	1,686
7/23/43	12	813	338	452	269	-	3	1,801
7/23/43	13	899	342	454	275	-	4	1,891
7/23/43	14	958	348	458	274	-	4	1,961
7/23/43	15	1,017	353	455	257	-	4	2,018
7/23/43	16	1,080	351	446	281	-	4	2,051
7/23/43	17	1,127	340	436	259	-	4	2,057
7/23/43	18	1,165	313	415	241	-	4	2,031
7/23/43	19	1,144	287	393	242	-	4	1,979
7/23/43	20	1,075	267	375	249	-	4	1,899
7/23/43	21	1,021	250	359	245	2	3	1,821
7/23/43	22	941	225	333	253	2	3	1,729
7/23/43	23	840	199	309	240	2	3	1,584
7/23/43	24	737	181	292	233	8	2	1,450



Plot 3C-8 MO West System Peak Day Loads by Class (Winter 2043)
Winter Peak Day (MW)

		MO West						
Date	Hr	Res	SML	LRG	LP	LGHT	SFR	Total
1/9/43	1	767	173	262	250	14	3	1,186
1/9/43	2	762	172	260	257	14	3	1,184
1/9/43	3	778	175	262	258	3	3	1,171
1/9/43	4	794	178	266	260	3	3	1,189
1/9/43	5	821	186	274	263	3	3	1,234
1/9/43	6	874	203	293	271	3	4	1,341
1/9/43	7	944	229	322	278	3	4	1,465
1/9/43	8	972	255	349	266	3	4	1,517
1/9/43	9	949	275	372	248	-	4	1,490
1/9/43	10	919	276	368	266	-	4	1,440
1/9/43	11	873	266	355	246	-	4	1,387
1/9/43	12	832	250	334	255	-	4	1,332
1/9/43	13	795	234	319	244	-	4	1,279
1/9/43	14	764	227	311	240	-	4	1,238
1/9/43	15	757	219	300	251	-	4	1,212
1/9/43	16	799	214	291	251	-	4	1,208
1/9/43	17	887	213	291	256	-	4	1,250
1/9/43	18	1,017	222	302	272	-	4	1,333
1/9/43	19	1,050	224	304	277	3	4	1,368
1/9/43	20	1,011	219	301	276	3	4	1,352
1/9/43	21	984	213	296	276	3	4	1,321
1/9/43	22	953	204	287	275	3	4	1,246
1/9/43	23	893	194	272	266	3	4	1,142
1/9/43	24	846	184	260	257	14	3	1,091

