
Part 1 - Appendix 3C
Evergy Metro Reports

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

For the net system load profiles, the utility shall provide plots for the summer peak day and the winter peak day.

The plots shall show each of the major class components of the net system load profile in a cumulative manner.

The plots shall be provided for the base year of the load forecast and for the fifth, tenth, and twentieth years of the forecast.

Compliance: See Plots 3C-1 through 3C-8 for base-case Evergy Metro forecast reports designed to comply with section (7)(A)(7) reporting requirements.

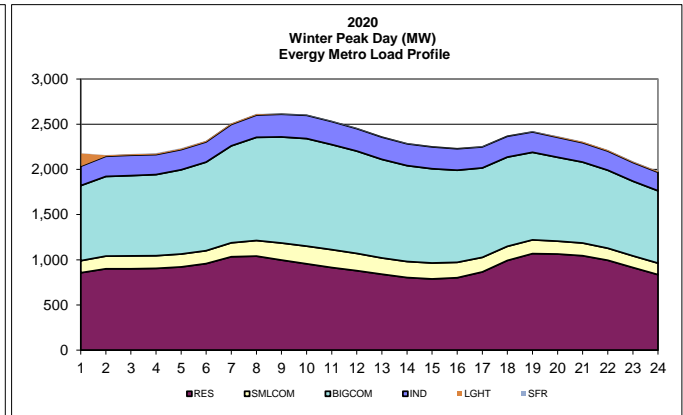
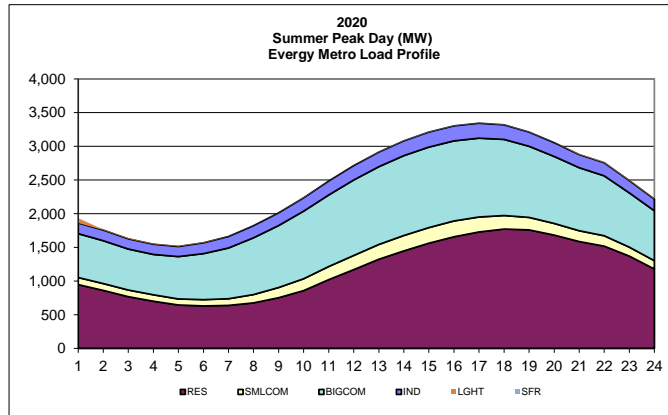
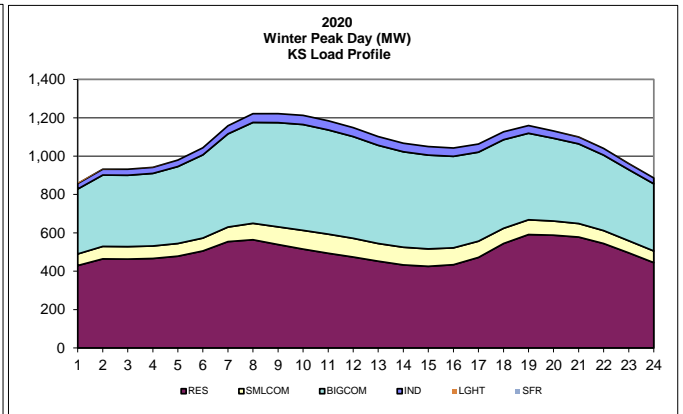
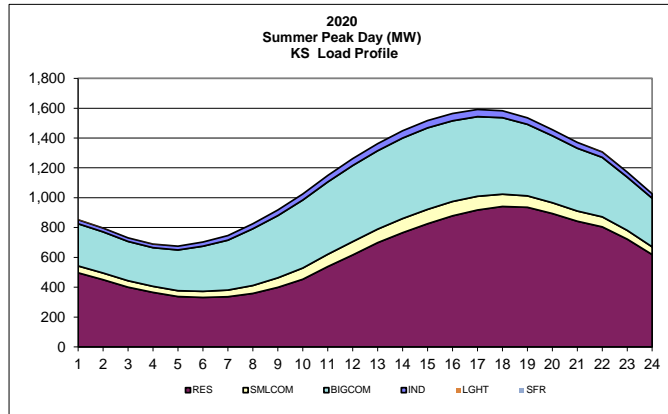
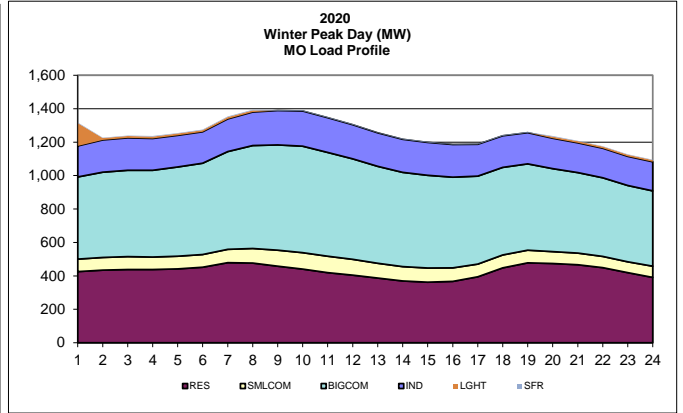
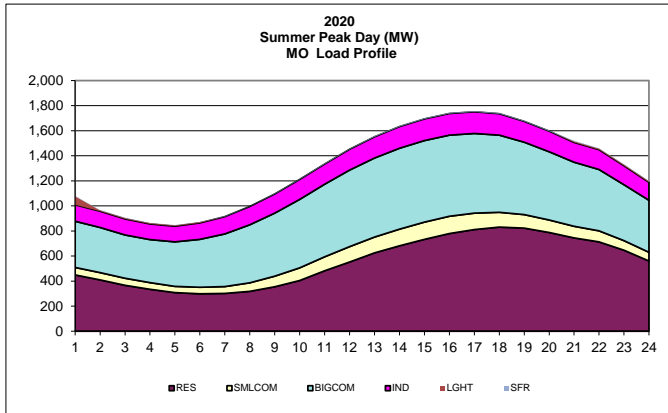
Work Files:

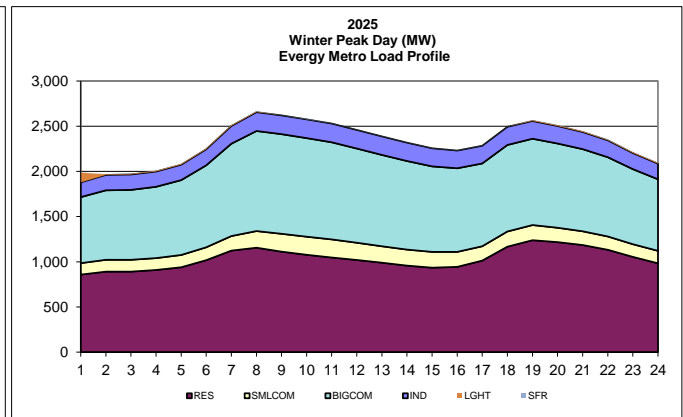
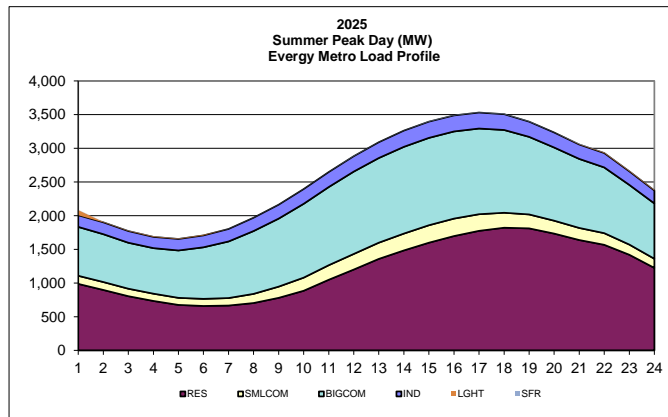
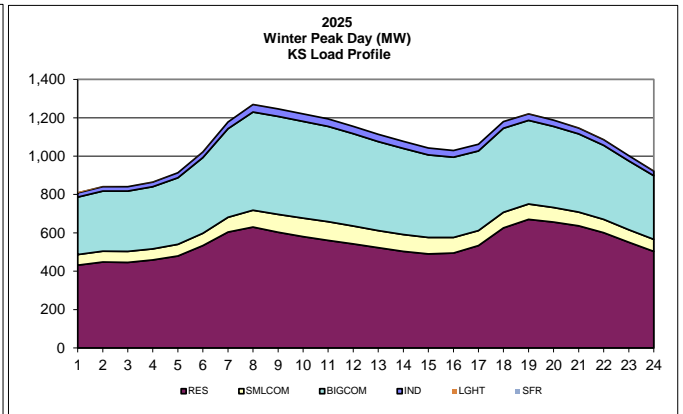
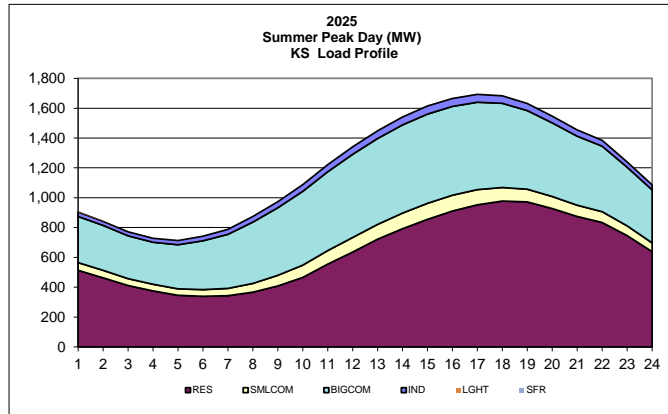
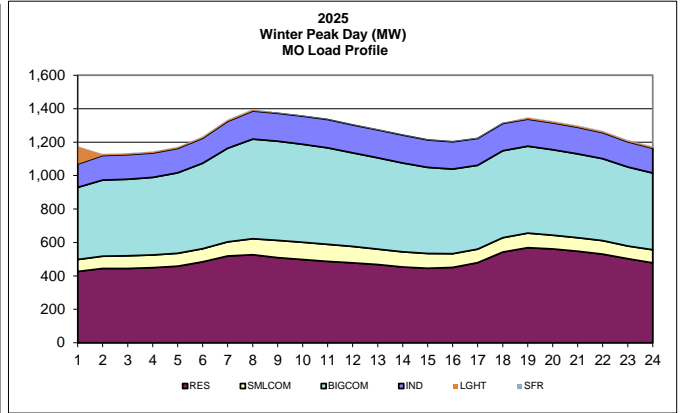
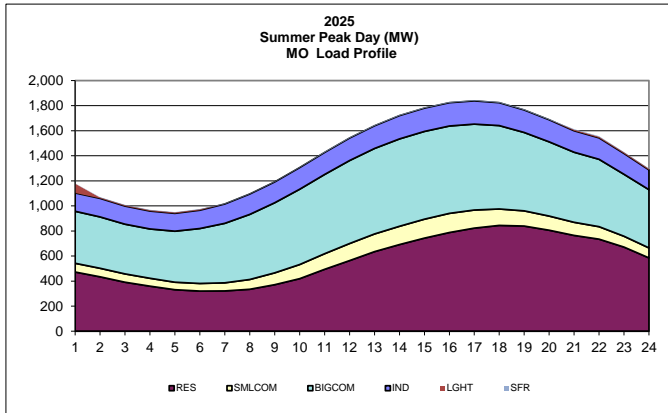
7_Data_Calib.xls

MetroMO_ClassEndUseWN.Itm

MetroKS_ClassEndUseWN.Itm

SysShape.Itm





**Plot 3C-5 Evergy Metro System Peak Day Loads by Class (Summer 2030)
Summer Peak Day (MW)**

Date	Hr	Missouri							Kansas							System						
		RES	SMLCOM	BIGCOM	IND	LGHT	SFR	Total	RES	SMLCOM	BIGCOM	IND	LGHT	SFR	Total	RES	SMLCOM	BIGCOM	IND	LGHT	SFR	Total
7/18/30	1	482	72	425	148	75	3	1,206	525	53	320	29	4	-	931	1,007	126	745	177	79	3	2,137
7/18/30	2	444	71	421	149	8	3	1,096	475	52	312	28	0	-	866	919	123	732	177	8	3	1,962
7/18/30	3	401	69	408	146	8	3	1,035	422	49	298	27	0	-	796	823	118	706	173	8	3	1,831
7/18/30	4	369	66	405	144	8	3	994	386	47	292	27	0	-	752	755	113	697	171	8	3	1,746
7/18/30	5	340	63	419	144	8	3	977	356	46	307	28	0	-	737	696	109	726	172	8	3	1,713
7/18/30	6	330	64	449	148	8	3	1,001	349	47	339	31	0	-	766	679	111	788	179	8	3	1,768
7/18/30	7	331	68	486	156	-	3	1,044	354	51	374	34	-	-	812	685	119	860	190	-	3	1,857
7/18/30	8	345	81	531	162	-	3	1,123	377	61	424	37	-	-	899	722	142	955	200	-	3	2,022
7/18/30	9	379	100	570	167	-	4	1,220	418	75	464	41	-	-	998	797	174	1,034	208	-	4	2,218
7/18/30	10	427	118	613	173	-	4	1,334	474	87	507	45	-	-	1,113	901	205	1,120	218	-	4	2,448
7/18/30	11	501	130	644	176	-	4	1,455	563	94	542	48	-	-	1,247	1,064	224	1,186	224	-	4	2,702
7/18/30	12	570	141	675	180	-	5	1,571	644	102	571	50	-	-	1,367	1,214	243	1,247	230	-	5	2,938
7/18/30	13	640	147	694	183	-	5	1,669	730	104	589	52	-	-	1,475	1,370	251	1,283	235	-	5	3,144
7/18/30	14	697	153	709	186	-	5	1,750	800	109	605	54	-	-	1,567	1,496	261	1,315	239	-	5	3,317
7/18/30	15	748	158	713	186	-	5	1,810	863	111	612	54	-	-	1,640	1,611	269	1,325	240	-	5	3,450
7/18/30	16	794	158	710	186	-	5	1,853	918	111	608	54	-	-	1,691	1,712	269	1,318	240	-	5	3,544
7/18/30	17	829	150	699	185	-	5	1,868	960	106	599	53	-	-	1,718	1,790	256	1,298	238	-	5	3,586
7/18/30	18	853	136	676	183	-	5	1,853	987	95	576	51	-	-	1,709	1,840	231	1,252	234	-	5	3,562
7/18/30	19	850	125	635	180	-	5	1,795	982	89	538	48	-	-	1,656	1,832	213	1,173	227	-	5	3,451
7/18/30	20	818	116	603	176	-	5	1,718	938	83	505	45	-	-	1,571	1,756	199	1,108	221	-	5	3,289
7/18/30	21	776	108	569	172	8	5	1,638	886	79	473	42	0	-	1,480	1,662	186	1,042	214	8	5	3,118
7/18/30	22	747	103	546	172	8	5	1,582	845	77	448	40	0	-	1,410	1,592	180	994	212	9	5	2,992
7/18/30	23	683	91	504	165	8	4	1,455	759	68	402	36	0	-	1,265	1,442	158	906	202	8	4	2,720
7/18/30	24	597	82	474	160	8	4	1,325	650	61	366	33	0	-	1,111	1,247	144	840	193	8	4	2,436

**Plot 3C-6 Evergy Metro System Peak Day Loads by Class (Winter 2030)
Winter Peak Day (MW)**

Date	Hr	Missouri							Kansas							System						
		RES	SMLCOM	BIGCOM	IND	LGHT	SFR	Total	RES	SMLCOM	BIGCOM	IND	LGHT	SFR	Total	RES	SMLCOM	BIGCOM	IND	LGHT	SFR	Total
1/11/30	1	444	73	434	140	105	3	1,200	443	57	303	22	5	-	830	888	130	737	162	111	3	2,030
1/11/30	2	462	76	458	147	8	3	1,154	459	59	317	23	0	-	858	921	135	774	169	8	3	2,011
1/11/30	3	463	78	461	147	8	3	1,159	458	59	317	23	0	-	857	921	136	779	170	8	3	2,016
1/11/30	4	469	77	468	145	8	3	1,169	471	59	328	24	0	-	882	940	136	795	169	8	3	2,051
1/11/30	5	478	78	485	145	8	3	1,197	493	61	352	26	0	-	932	971	140	836	171	8	3	2,129
1/11/30	6	504	80	514	150	8	3	1,260	549	66	400	30	0	-	1,045	1,053	147	914	179	8	3	2,304
1/11/30	7	541	87	563	161	8	3	1,364	623	79	468	35	0	-	1,206	1,164	167	1,030	196	9	3	2,569
1/11/30	8	550	98	600	168	8	3	1,427	650	91	519	40	0	-	1,300	1,199	189	1,119	208	9	3	2,727
1/11/30	9	532	106	596	168	-	3	1,405	622	97	518	40	-	-	1,276	1,153	203	1,114	207	-	3	2,681
1/11/30	10	519	106	591	168	-	3	1,387	599	99	512	39	-	-	1,250	1,118	205	1,103	208	-	3	2,637
1/11/30	11	507	105	581	168	-	3	1,366	578	101	505	39	-	-	1,223	1,086	206	1,086	208	-	3	2,588
1/11/30	12	498	100	564	167	-	3	1,333	559	97	488	39	-	-	1,182	1,057	198	1,052	205	-	3	2,515
1/11/30	13	488	95	549	168	-	3	1,303	538	92	471	38	-	-	1,139	1,026	187	1,019	205	-	3	2,442
1/11/30	14	473	93	534	166	-	3	1,270	518	91	455	37	-	-	1,101	991	184	989	203	-	3	2,371
1/11/30	15	464	91	519	164	-	3	1,241	505	88	437	36	-	-	1,065	969	179	955	200	-	3	2,306
1/11/30	16	469	86	509	163	-	3	1,230	509	84	424	35	-	-	1,052	978	170	933	197	-	3	2,281
1/11/30	17	499	84	504	161	-	3	1,251	549	81	421	34	-	-	1,085	1,049	164	925	195	-	3	2,336
1/11/30	18	565	89	522	163	-	3	1,343	645	83	444	35	-	-	1,207	1,210	172	966	199	-	3	2,550
1/11/30	19	593	89	522	162	8	3	1,378	691	82	442	34	0	-	1,249	1,284	172	963	196	9	3	2,627
1/11/30	20	585	85	513	161	8	3	1,355	676	78	428	33	0	-	1,215	1,261	163	941	194	9	3	2,570
1/11/30	21	572	82	504	158	8	3	1,327	656	75	412	31	0	-	1,174	1,227	157	916	189	9	3	2,501
1/11/30	22	553	82	492	155	8	3	1,294	619	71	391	29	0	-	1,111	1,172	153	883	185	9	3	2,405
1/11/30	23	523	79	475	151	8	3	1,238	567	66	363	27	0	-	1,024	1,091	145	838	178	9	3	2,262
1/11/30	24	498	80	462	148	8	3	1,198	518	64	335	25	0	-	942	1,016	144	797	173	8	3	2,141

