

**Part 1 - Appendix 3B
Evergy Metro Reports**

**Missouri 4 CSR 240-22.030 (7)(A)(6) Reporting Requirements
Load Analysis and Forecasting**

(7)(A)(6) For each major class specified pursuant to subsection (2)(A), the utility shall provide plots of class monthly energy and coincident peak demand at the time of summer and winter system peaks. The plots shall cover the historical database period and the forecast period of at least (20) years. The plots of coincident peak demands for the historical period shall include both actual and weather-normalized peak demands at the time of peak of summer and winter system peaks. The plots of coincident peak demand for the forecast period shall show the class coincident demands for the base-case forecast at the time of summer and winter systems peaks.

Compliance: See Plots 3B-1 through 3B-7 for base-case Evergy Metro forecast reports designed to comply with section (7)(A)(6) reporting requirements.

Work Files

WN PeakSumWin.xls

Act PeakSumWin.xls

Project Files

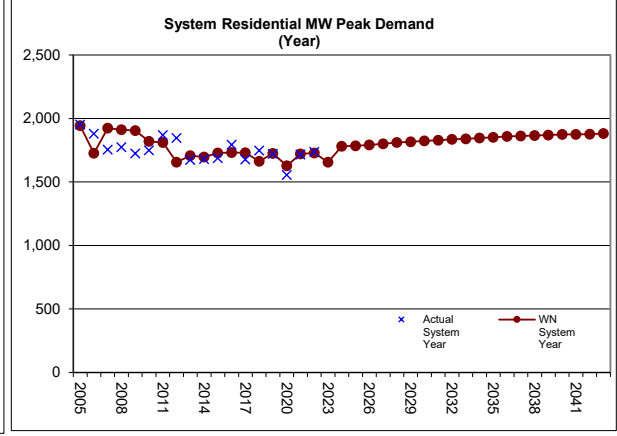
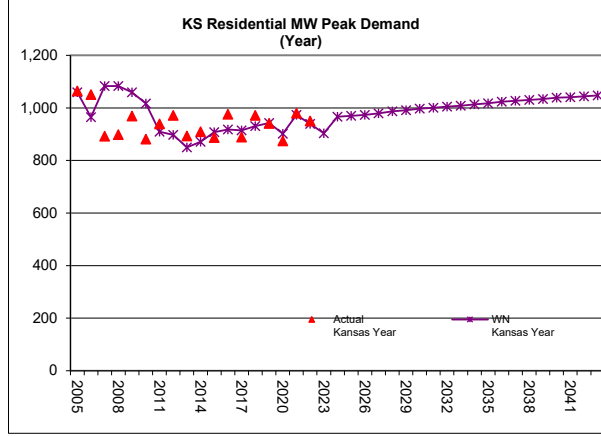
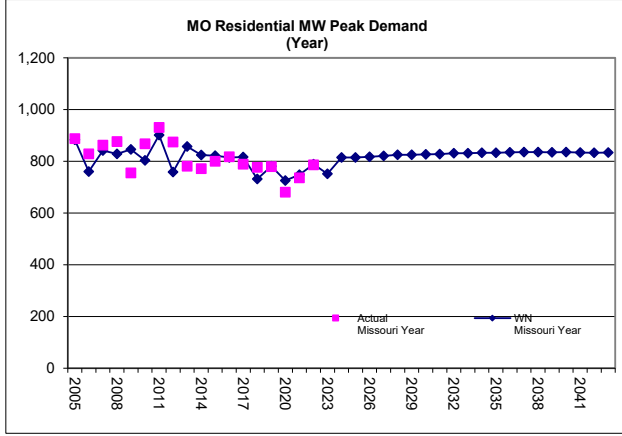
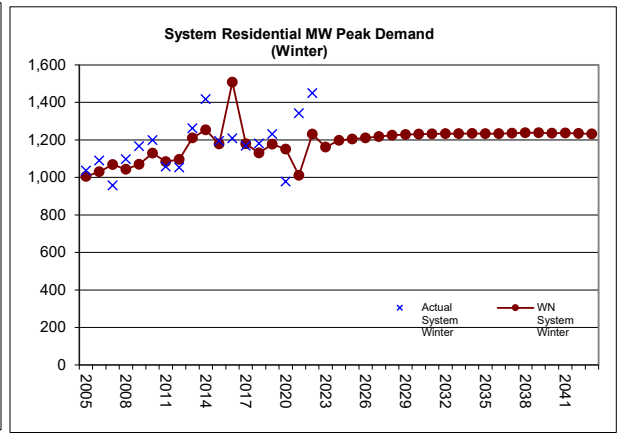
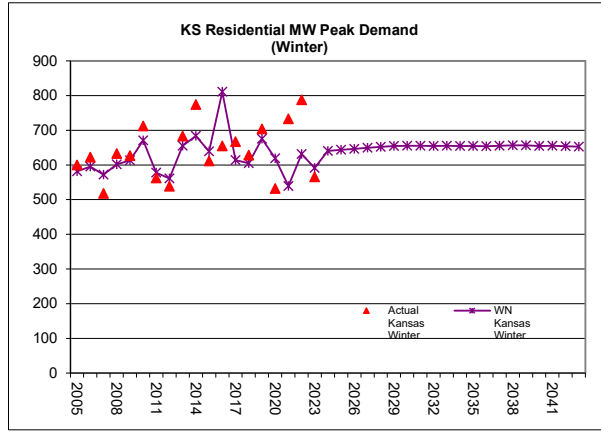
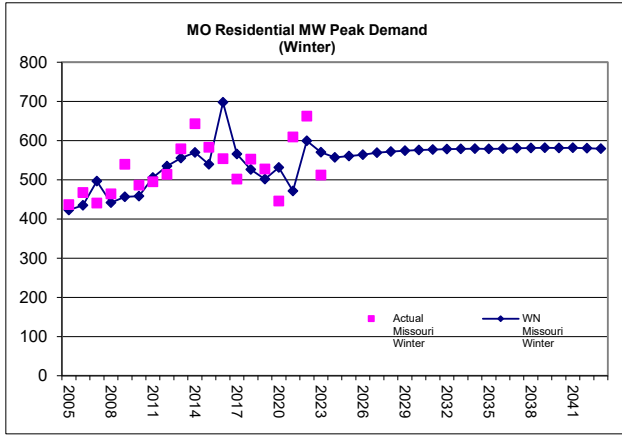
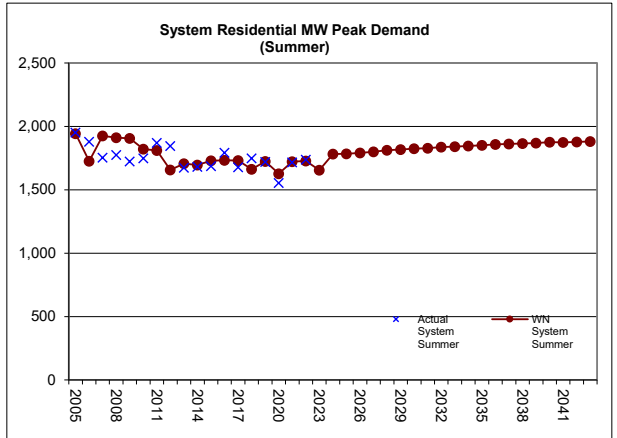
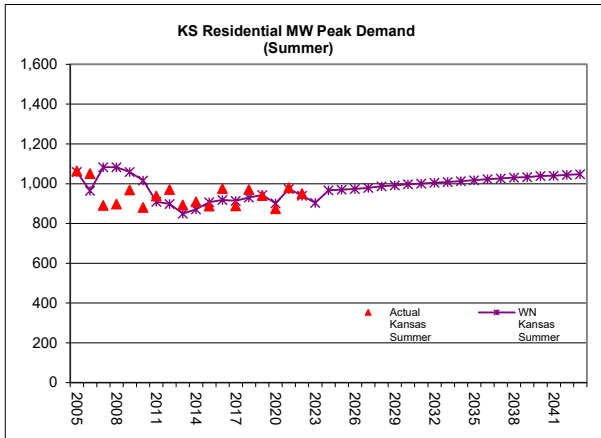
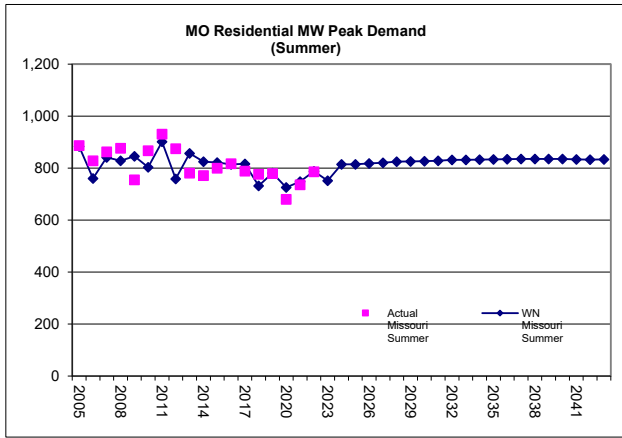
IRP_7.1.6_KCPL_Peaks

IRP_7.1.6_KCPL_MWh

**Plot 3B-1 Missouri & Kansas Residential MW Peak Demand
(Actual vs. Weather Normalized)**

Year	Actual		WN		Actual		WN		Actual		WN		Actual		WN		Actual		WN	
	Missouri Summer	Missouri Summer	Missouri Winter	Missouri Winter	Missouri Year	Missouri Year	Kansas Summer	Kansas Summer	Kansas Winter	Kansas Winter	Kansas Year	Kansas Year	System Summer	System Summer	System Winter	System Winter	System Year	System Year		
2005	887	883	436	423	887	883	1064	1,060	600	582	1,064	1,060	1,952	1,943	1,036	1,005	1,952	1,943		
2006	828	761	467	435	828	761	1051	965	622	595	1,051	965	1,880	1,726	1,090	1,030	1,880	1,726		
2007	863	842	440	497	863	842	892	1,083	517	572	892	1,083	1,755	1,925	958	1,068	1,755	1,925		
2008	877	828	464	441	877	828	898	1,083	632	602	898	1,083	1,774	1,911	1,096	1,043	1,774	1,911		
2009	755	846	539	457	755	846	969	1,059	627	613	969	1,059	1,724	1,905	1,166	1,069	1,724	1,905		
2010	867	804	486	458	867	804	881	1,017	712	671	881	1,017	1,749	1,820	1,198	1,129	1,749	1,820		
2011	931	901	495	506	931	901	939	910	562	578	939	910	1,870	1,811	1,057	1,083	1,870	1,811		
2012	875	759	514	535	875	759	972	898	539	561	972	898	1,846	1,656	1,052	1,095	1,846	1,656		
2013	781	857	579	555	781	857	893	850	683	655	893	850	1,674	1,707	1,262	1,211	1,674	1,707		
2014	771	825	643	569	771	825	910	871	774	684	910	871	1,681	1,696	1,417	1,253	1,681	1,696		
2015	800	821	583	539	800	821	888	907	611	639	888	907	1,687	1,729	1,194	1,178	1,687	1,729		
2016	818	814	554	698	818	814	976	918	655	811	976	918	1,793	1,732	1,208	1,508	1,793	1,732		
2017	788	816	502	566	788	816	889	914	667	614	889	914	1,677	1,731	1,169	1,180	1,677	1,731		
2018	776	731	552	526	776	731	971	931	628	605	971	931	1,748	1,662	1,181	1,131	1,748	1,662		
2019	779	781	527	502	779	781	941	943	704	676	941	943	1,720	1,724	1,231	1,177	1,720	1,724		
2020	680	726	446	531	680	726	875	902	532	619	875	902	1,555	1,627	978	1,150	1,555	1,627		
2021	736	748	609	471	736	748	980	974	733	539	980	974	1,716	1,722	1,342	1,011	1,716	1,722		
2022	786	788	662	600	786	788	951	939	788	631	951	939	1,737	1,728	1,450	1,231	1,737	1,728		
2023		752	512	570		752		904	565	591		904		1,655		1,161		1,655		
2024		815		557		815		967		640		967		1,781		1,197		1,781		
2025		815		561		815		970		644		970		1,784		1,204		1,784		
2026		818		564		818		974		646		974		1,791		1,210		1,791		
2027		821		569		821		980		649		980		1,800		1,218		1,800		
2028		825		572		825		987		652		987		1,811		1,224		1,811		
2029		825		574		825		992		654		992		1,817		1,229		1,817		
2030		827		576		827		997		655		997		1,824		1,231		1,824		
2031		828		577		828		1,000		655		1,000		1,828		1,232		1,828		
2032		831		578		831		1,005		655		1,005		1,836		1,233		1,836		
2033		832		579		832		1,008		655		1,008		1,839		1,234		1,839		
2034		833		579		833		1,013		655		1,013		1,846		1,234		1,846		
2035		833		579		833		1,018		654		1,018		1,851		1,233		1,851		
2036		835		579		835		1,024		654		1,024		1,858		1,233		1,858		
2037		835		580		835		1,027		655		1,027		1,862		1,235		1,862		
2038		835		581		835		1,030		657		1,030		1,866		1,238		1,866		
2039		835		582		835		1,034		656		1,034		1,869		1,238		1,869		
2040		835		581		835		1,039		655		1,039		1,875		1,236		1,875		
2041		833		582		833		1,040		655		1,040		1,874		1,237		1,874		
2042		833		581		833		1,044		654		1,044		1,877		1,235		1,877		
2043		833		580		833		1,048		653		1,048		1,881		1,232		1,881		
'18-'23	-100.0%	0.5%	-1.5%	1.6%	-100.0%	0.5%	-100.0%	-0.6%	-2.1%	-0.5%	-100.0%	-0.6%	-100.0%	-0.1%	-100.0%	0.5%	-100.0%	-0.1%		
'23-'28		1.9%		0.1%		1.9%		1.8%		2.0%		1.8%		1.1%		1.1%		1.8%		
'28-'33		0.2%		0.2%		0.2%		0.4%		0.1%		0.4%		0.3%		0.2%		0.3%		
ports		0.1%		0.1%		0.1%		0.4%		0.0%		0.4%		0.3%		0.1%		0.3%		
'38-'43		0.0%		-0.1%		0.0%		0.3%		-0.1%		0.3%		0.2%		-0.1%		0.2%		

* 2020 Summer peaks are not include since they are projections. The peak month occurred after the June 2020 cut off.
Winter values are include since the peak occurred in January 2020.

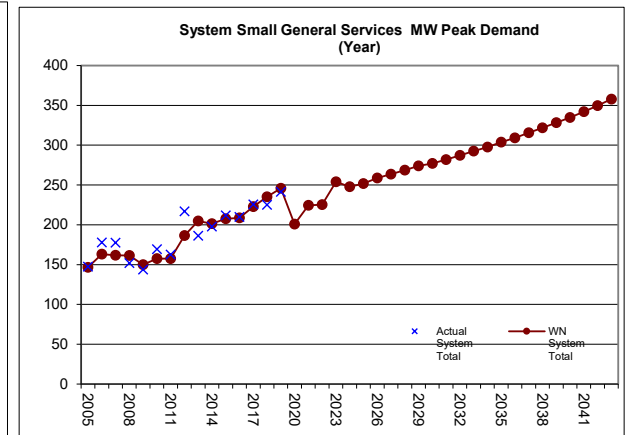
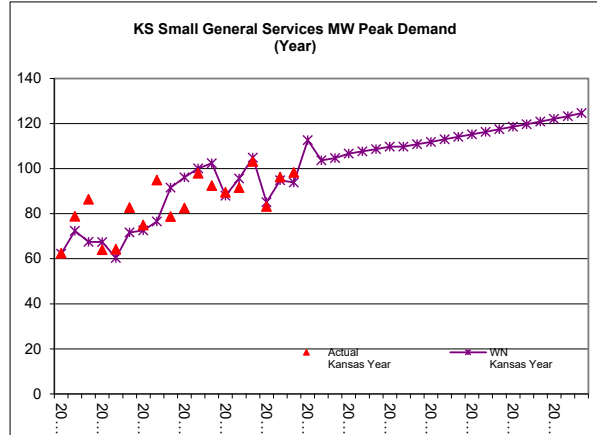
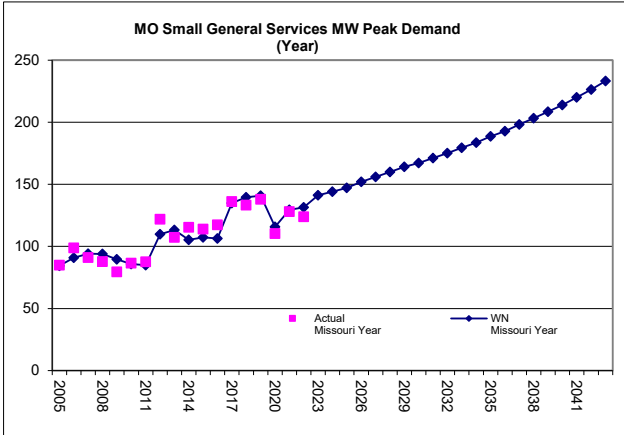
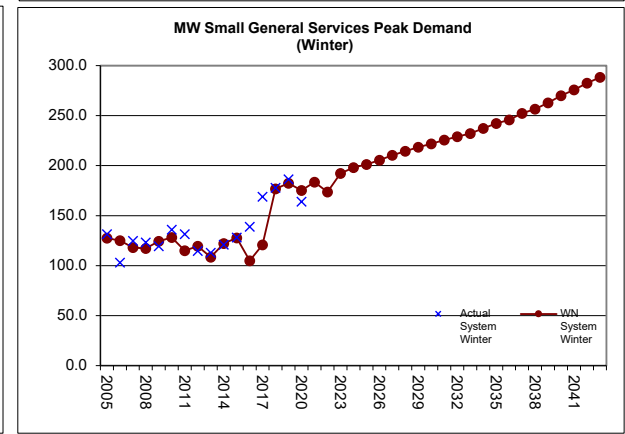
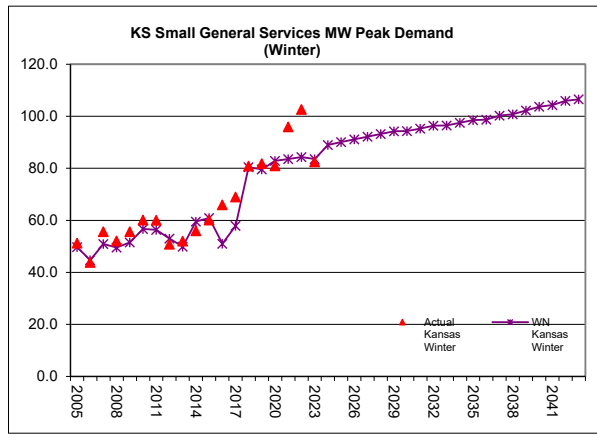
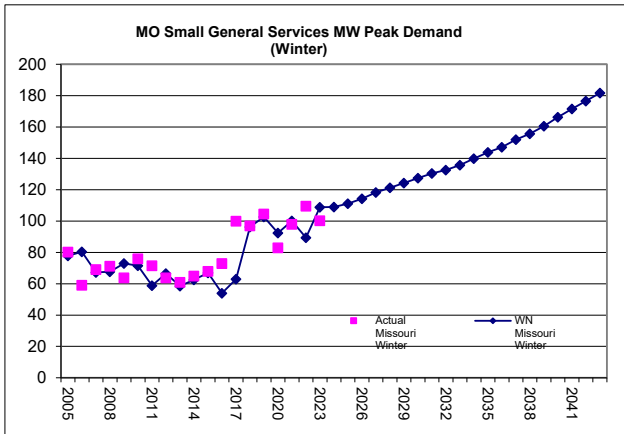
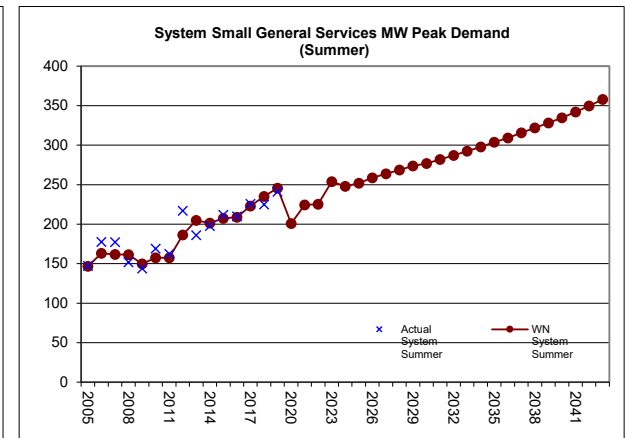
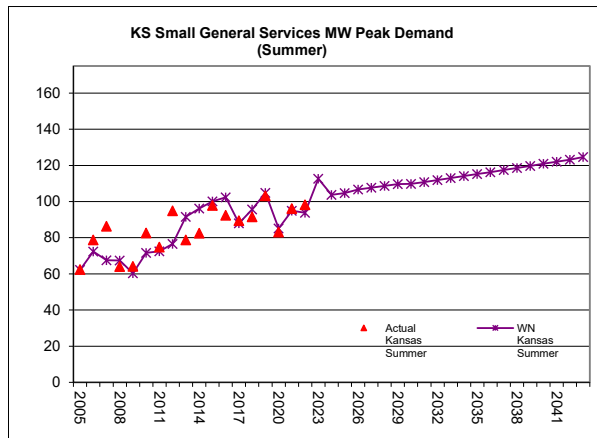
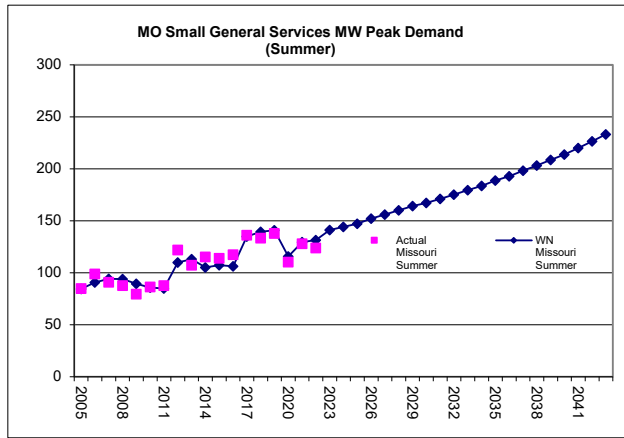


MO Winter drop due to the system coincident peak in Dec. and Res class peak is Jan.

**Plot 3B-2 Missouri & Kansas Small General Service MW Peak Demand
(Actual vs. Weather Normalized)**

Year	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	
	Missouri Summer	Missouri Summer	Missouri Winter	Missouri Winter	Missouri Year	Missouri Year	Kansas Summer	Kansas Summer	Kansas Winter	Kansas Winter	Kansas Year	Kansas Year	System Summer	System Summer	System Winter	System Winter	System Total	System Total	
2005	85	84	80	78	85	84	62.5	62	51.3	49.7	62.5	62.2	147.3	146.6	131.6	127.6	147.3	146.6	
2006	99	91	59	80	99	91	78.8	72	43.8	44.7	78.8	72.4	177.7	163.1	103.0	125.1	177.7	163.1	
2007	91	94	69	67	91	94	86.4	67	55.7	50.9	86.4	67.5	177.4	161.7	124.8	118.2	177.4	161.7	
2008	88	94	71	68	88	94	64.0	67	52.1	49.6	64.0	67.4	151.8	161.4	123.3	117.3	151.8	161.4	
2009	79	90	64	73	79	90	64.2	60	55.6	51.5	64.2	60.3	143.7	149.9	119.4	124.5	143.7	149.9	
2010	86	86	76	72	86	86	82.7	72	60.2	56.7	82.7	71.6	169.2	157.4	136.1	128.2	169.2	157.4	
2011	88	85	71	59	88	85	74.9	73	60.1	56.3	74.9	72.6	162.5	157.4	131.5	115.1	162.5	157.4	
2012	122	110	64	66	122	110	95.0	77	50.9	53.0	95.0	76.5	216.9	186.4	114.7	119.4	216.9	186.4	
2013	107	113	61	59	107	113	78.8	92	52.0	49.9	78.8	91.6	186.1	204.7	113.0	108.4	186.1	204.7	
2014	115	105	65	63	115	105	82.5	96	56.0	59.6	82.5	96.1	197.8	201.3	121.0	122.1	197.8	201.3	
2015	114	107	68	67	114	107	98.0	100	60.1	60.9	98.0	100.1	211.9	207.4	128.1	127.8	211.9	207.4	
2016	117	106	73	54	117	106	92.5	102	66.0	51.0	92.5	102.4	209.9	208.7	138.9	105.0	209.9	208.7	
2017	136	135	100	63	136	135	89.5	88	69.0	57.9	89.5	87.9	225.7	222.8	169.0	120.8	225.7	222.8	
2018	133	140	97	96	133	140	91.6	96	80.9	80.5	91.6	95.7	224.9	235.2	177.8	176.7	224.9	235.2	
2019	138	141	104	103	138	141	103.2	105	81.8	79.6	103.2	104.9	241.2	245.7	186.3	182.3	241.2	245.7	
2020	110	116	83	92	110	116	83.2	85	81.0	82.9	83.2	85.1	200.9	163.9	175.3		200.9		
2021	128	129	98	100	128	129	96.2	95	96.0	83.5	96.2	94.9	224.4	224.4	183.6		224.4		
2022	124	131	110	89	124	131	98.3	94	102.6	84.4	98.3	93.8	225.2		173.7		225.2		
2023	141	100	109	109	141	141		113	82.6	83.6		112.6		253.8	192.3			253.8	
2024	144		109		144			104		89.0		103.7		247.8		198.0		247.8	
2025	147		111		147			105		90.1		104.7		251.8		201.2		251.8	
2026	152		114		152			107		91.2		106.7		258.7		205.3		258.7	
2027	156		118		156			108		92.2		107.6		263.7		210.4		263.7	
2028	160		121		160			109		93.2		108.6		268.6		214.4		268.6	
2029	164		124		164			110		94.2		109.7		273.8		218.5		273.8	
2030	167		127		167			110		94.3		109.8		276.9		221.7		276.9	
2031	171		130		171			111		95.3		110.8		282.0		225.7		282.0	
2032	175		133		175			112		96.4		111.8		287.0		228.9		287.0	
2033	179		136		179			113		96.4		113.0		292.4		232.1		292.4	
2034	184		140		184			114		97.6		114.1		297.7		237.3		297.7	
2035	189		144		189			115		98.5		115.2		303.9		242.3		303.9	
2036	193		147		193			116		98.7		116.3		309.1		245.8		309.1	
2037	198		152		198			117.5		100.3		117.5		315.6		252.2		315.6	
2038	203		156		203			118.6		100.8		118.6		321.9		256.5		321.9	
2039	209		160		209			119.7		102.2		119.7		328.2		262.7		328.2	
2040	214		166		214			120.9		103.7		120.9		334.8		270.0		334.8	
2041	220		171		220			122.0		104.3		122.0		342.1		275.8		342.1	
2042	226		177		226			123.2		105.9		123.2		349.7		282.5		349.7	
2043	233		182		233			124.7		106.5		124.7		357.9		288.2		357.9	
0																			
'18-'23	-100.0%	0.2%	0.7%	2.5%	-100.0%	0.2%	-100.0%	3.3%	0.4%	0.8%	-100.0%	3.3%	-100.0%	1.5%	-100.0%	1.7%	-100.0%	1.5%	
'23-'28		2.5%		2.2%		2.5%		-0.7%		2.2%		-0.7%		1.1%		2.2%		1.1%	
'28-'33		2.3%		2.3%		2.3%		0.8%		0.7%		0.8%		1.7%		1.6%		1.7%	
ports		2.5%		2.8%		2.5%		1.0%		0.9%		1.0%		1.9%		2.0%		1.9%	
'38-'43		2.8%		3.1%		2.8%		1.0%		1.1%		1.0%		2.1%		2.4%		2.1%	

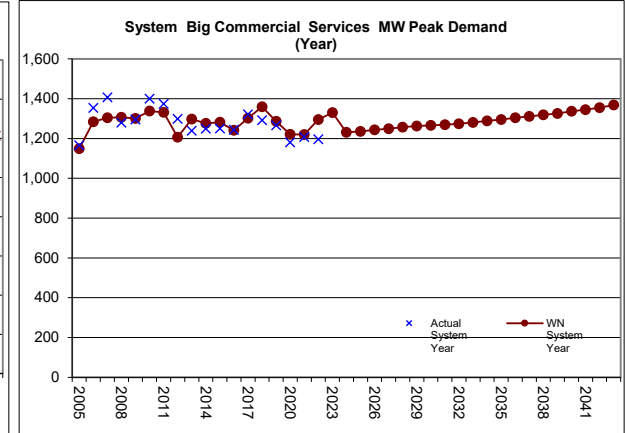
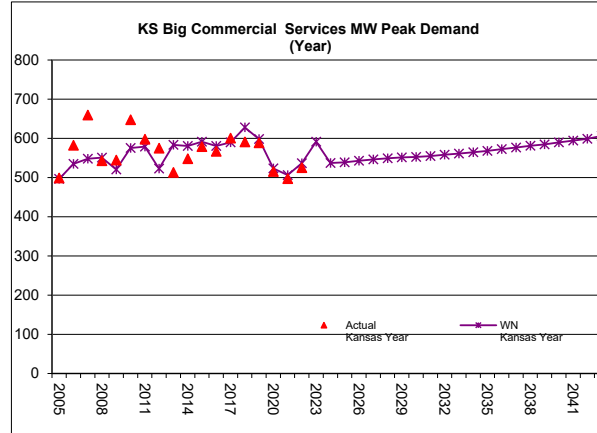
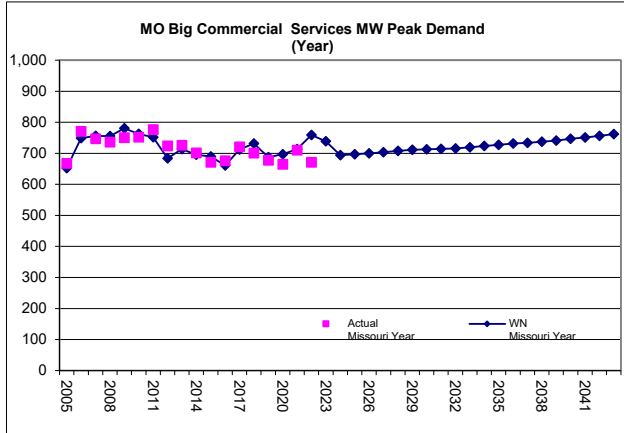
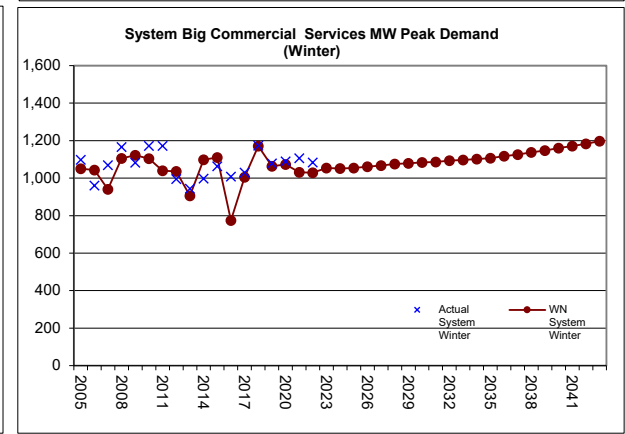
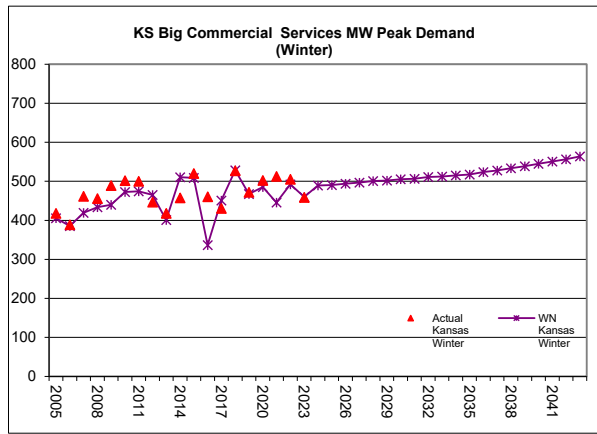
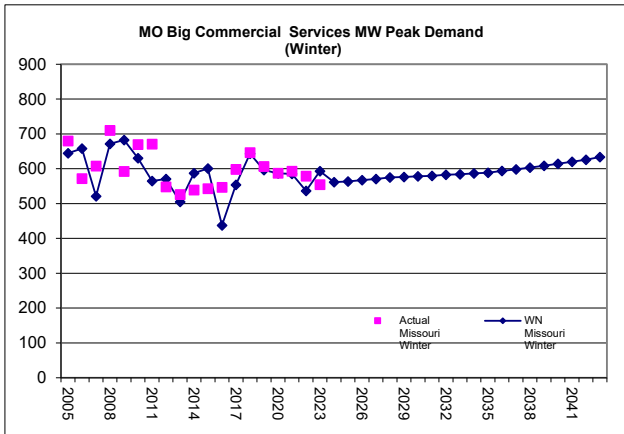
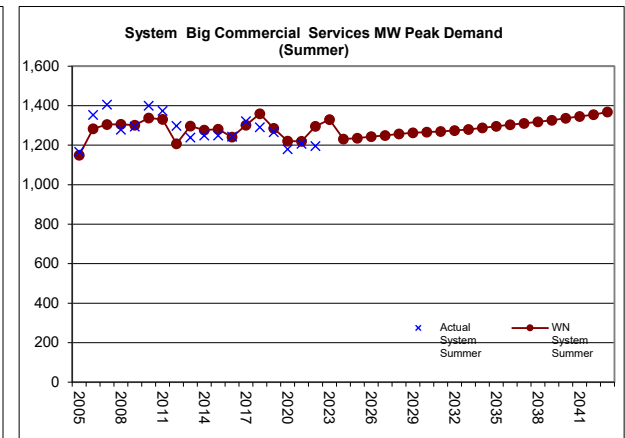
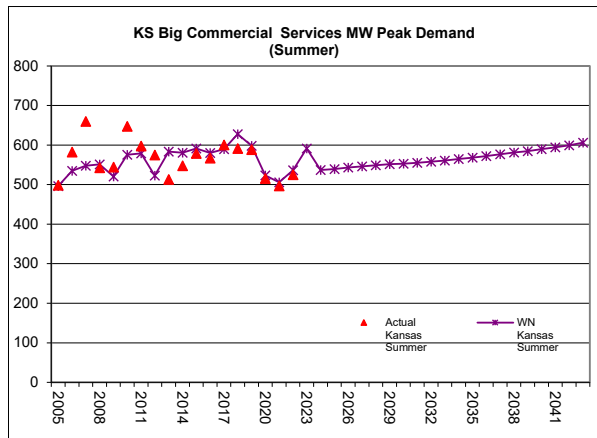
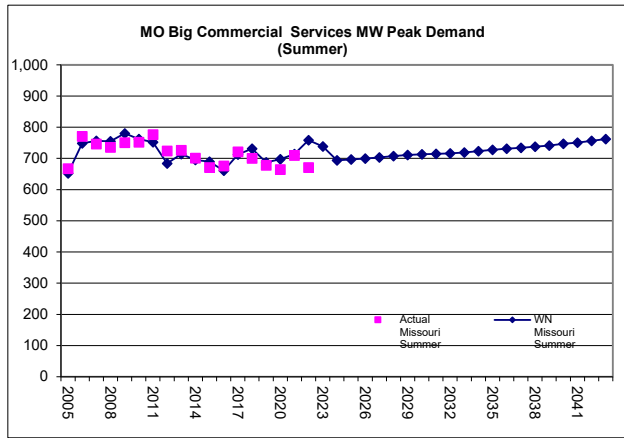
* 2020 Summer peaks are not include since they are projections. The peak month occurred after the June 2020 cut off.
Winter values are include since the peak occurred in January 2020.



**Plot 3B-3 Missouri & Kansas Medium General Services MW Peak Demand
(Actual vs. Weather Normalized)**

Year	Actual		WN		Actual		WN		Actual		WN		Actual		WN		Actual		WN	
	Missouri Summer	Missouri Summer	Missouri Winter	Missouri Winter	Missouri Year	Missouri Year	Kansas Summer	Kansas Summer	Kansas Winter	Kansas Winter	Kansas Year	Kansas Year	System Summer	System Summer	System Winter	System Winter	System Year	System Year		
2005	667	653	680	645	667	653	499	496	418	406	499	496	1,166	1,149	1,098	1,050	1,166	1,149		
2006	771	749	572	658	771	749	582	535	389	385	582	535	1,353	1,283	961	1,043	1,353	1,283		
2007	746	756	608	521	746	756	660	756	548	462	660	756	1,406	1,304	1,070	941	1,406	1,304		
2008	736	755	710	672	736	755	543	551	456	434	543	551	1,279	1,306	1,166	1,105	1,279	1,306		
2009	750	780	593	683	750	780	545	521	489	440	545	521	1,295	1,301	1,082	1,122	1,295	1,301		
2010	752	762	670	631	752	762	648	576	502	473	648	576	1,400	1,338	1,172	1,104	1,400	1,338		
2011	776	752	671	565	776	752	598	579	501	474	598	579	1,374	1,331	1,172	1,039	1,374	1,331		
2012	724	684	548	571	724	684	575	523	447	465	575	523	1,298	1,207	995	1,036	1,298	1,207		
2013	726	714	526	505	726	714	513	583	418	401	513	583	1,239	1,297	944	906	1,239	1,297		
2014	701	695	539	587	701	695	548	581	458	511	548	581	1,249	1,276	997	1,098	1,249	1,276		
2015	671	690	543	601	671	690	579	592	520	509	579	592	1,250	1,281	1,063	1,110	1,250	1,281		
2016	676	661	547	438	676	661	567	580	461	337	567	580	1,243	1,241	1,008	775	1,243	1,241		
2017	721	712	599	554	721	712	601	590	431	451	601	590	1,322	1,302	1,029	1,005	1,322	1,302		
2018	700	731	646	643	700	731	591	628	527	528	591	628	1,292	1,359	1,174	1,171	1,292	1,359		
2019	678	687	607	596	678	687	589	598	472	467	589	598	1,266	1,286	1,079	1,063	1,266	1,286		
2020	664	697	587	587	664	697	516	524	503	485	516	524	1,180	1,221	1,090	1,072	1,180	1,221		
2021	710	714	593	586	710	714	497	506	513	445	497	506	1,207	1,220	1,106	1,031	1,207	1,220		
2022	671	759	579	536	671	759	525	536	505	492	525	536	1,196	1,295	1,084	1,029	1,196	1,295		
2023		739	555	593		739		592	459	460		592		1,330		1,053		1,330		
2024		694		562		694		537		489		537		1,231		1,051		1,231		
2025		697		564		697		539		491		539		1,236		1,054		1,236		
2026		700		568		700		543		494		543		1,243		1,062		1,243		
2027		703		571		703		546		497		546		1,249		1,067		1,249		
2028		708		575		708		549		501		549		1,257		1,076		1,257		
2029		711		576		711		552		502		552		1,263		1,079		1,263		
2030		713		578		713		553		506		553		1,266		1,084		1,266		
2031		714		579		714		555		507		555		1,269		1,086		1,269		
2032		716		583		716		558		511		558		1,274		1,094		1,274		
2033		719		584		719		561		512		561		1,280		1,097		1,280		
2034		724		587		724		565		515		565		1,288		1,102		1,288		
2035		727		589		727		568		518		568		1,295		1,107		1,295		
2036		731		594		731		572		524		572		1,304		1,117		1,304		
2037		734		598		734		577		528		577		1,310		1,126		1,310		
2038		737		604		737		581		533		581		1,318		1,137		1,318		
2039		741		608		741		585		539		585		1,326		1,147		1,326		
2040		747		615		747		590		545		590		1,337		1,160		1,337		
2041		751		620		751		594		551		594		1,345		1,171		1,345		
2042		756		626		756		599		557		599		1,355		1,183		1,355		
2043		762		633		762		606		564		606		1,368		1,197		1,368		
'18-'23	-100.0%	0.2%	-3.0%	-1.6%	-100.0%	0.2%	-100.0%	-1.2%	-2.7%	-2.7%	-100.0%	-1.2%	-100.0%	-0.4%	-100.0%	-2.1%	-100.0%	-0.4%		
'23-'28		-0.8%		-0.6%		-0.8%		-1.5%		1.7%		-1.5%		-1.1%		0.4%		-1.1%		
'28-'33		0.3%		0.3%		0.3%		0.4%		0.5%		0.4%		0.4%		0.4%		0.4%		
ports		0.5%		0.7%		0.5%		0.7%		0.8%		0.7%		0.6%		0.7%		0.6%		
'38-'43		0.7%		1.0%		0.7%		0.9%		1.1%		0.9%		0.7%		1.0%		0.7%		

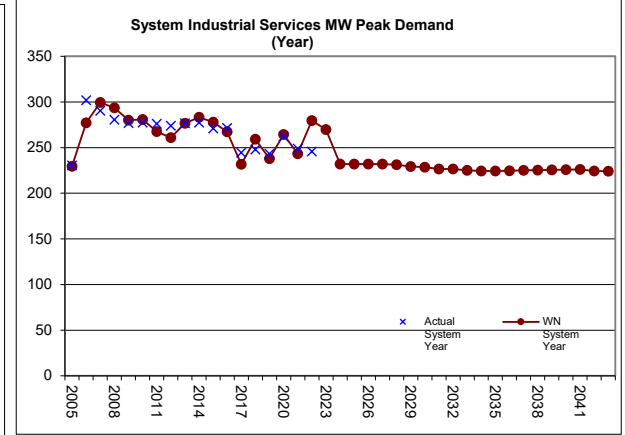
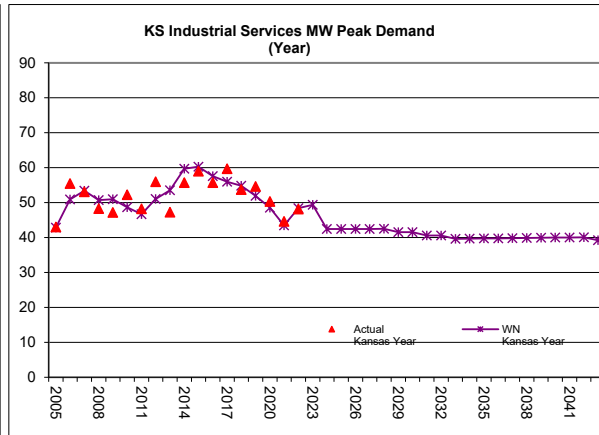
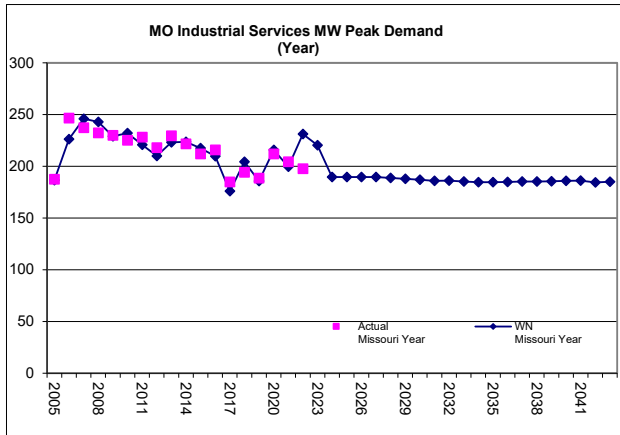
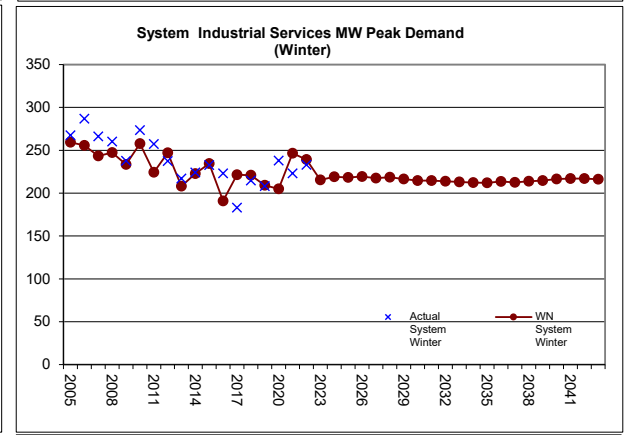
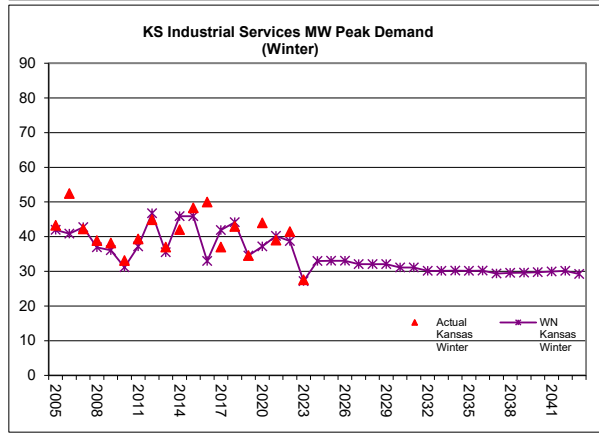
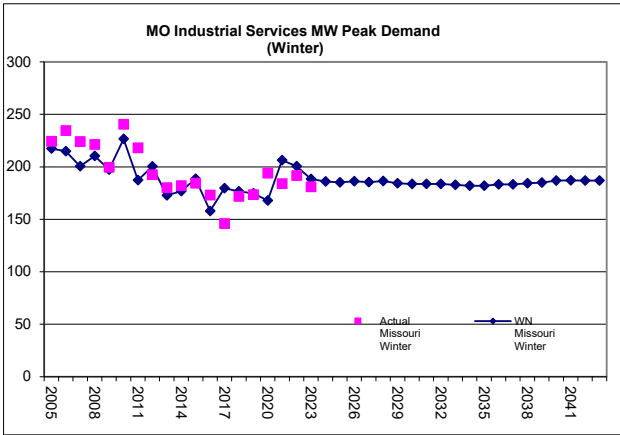
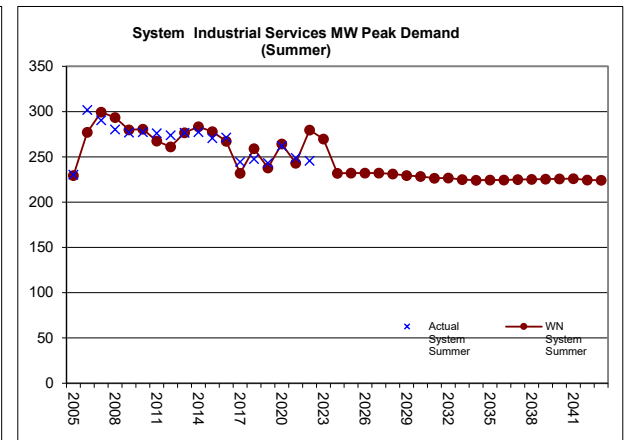
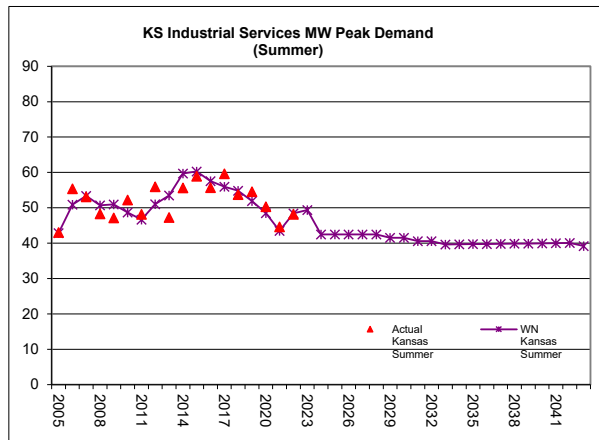
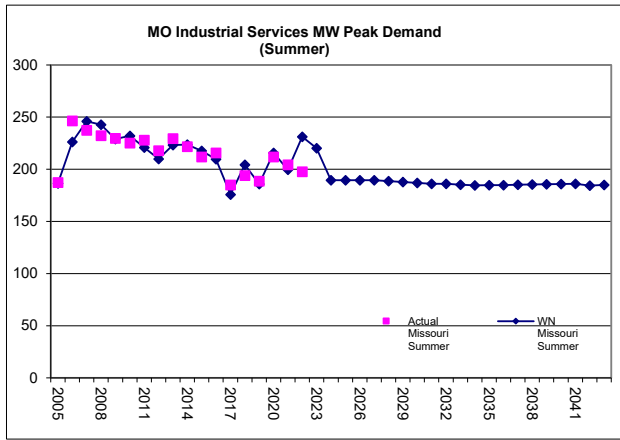
* 2020 Summer peaks are not include since they are projections. The peak month occurred after the June 2020 cut off.
Winter values are include since the peak occurred in January 2020.



**Plot 3B-4 Missouri & Kansas Large General Services MW Peak Demand
(Actual vs. Weather Normalized)**

Year	Actual		WN		Actual		WN		Actual		WN		Actual		WN		Actual		WN	
	Missouri Summer	Missouri Summer	Missouri Winter	Missouri Winter	Missouri Year	Missouri Year	Kansas Summer	Kansas Summer	Kansas Winter	Kansas Winter	Kansas Year	Kansas Year	System Summer	System Summer	System Winter	System Winter	System Year	System Year		
2005	187.4	187	224.2	217	187.4	186.6	43.0	43	43.2	41.9	43.0	42.8	230.5	229.4	267.5	259.3	230.5	229.4		
2006	246.5	226	234.4	215	246.5	226.3	55.4	51	52.4	40.9	55.4	50.9	301.9	277.2	286.8	255.7	301.9	277.2		
2007	237.3	246	224.0	201	237.3	246.0	53.1	53	42.2	42.8	53.1	53.4	290.4	299.4	266.2	243.3	290.4	299.4		
2008	232.2	243	221.2	210	232.2	242.8	48.3	51	38.8	36.9	48.3	50.7	280.5	293.5	260.0	247.3	280.5	293.5		
2009	229.8	229	199.5	197	229.8	229.0	47.2	51	38.1	36.1	47.2	51.0	277.0	280.0	237.6	233.3	277.0	280.0		
2010	225.2	232	240.4	226	225.2	232.0	52.2	49	33.1	31.2	52.2	48.7	277.4	280.7	273.5	257.7	277.4	280.7		
2011	228.1	221	218.0	187	228.1	220.9	48.2	47	39.3	37.2	48.2	46.7	276.3	267.6	257.3	224.4	276.3	267.6		
2012	217.9	210	192.5	200	217.9	210.0	56.0	51	44.9	46.7	56.0	51.0	273.9	261.0	237.4	247.1	273.9	261.0		
2013	229.4	223	180.0	173	229.4	223.2	47.3	53	37.0	35.5	47.3	53.5	276.7	276.7	217.0	208.2	276.7	276.7		
2014	221.7	224	182.0	177	221.7	223.6	55.7	60	42.0	45.9	55.7	59.7	277.4	283.3	224.0	222.7	277.4	283.3		
2015	211.9	218	184.3	189	211.9	217.6	59.0	60	48.3	45.9	59.0	60.3	270.9	277.9	232.6	234.6	270.9	277.9		
2016	215.8	210	172.9	158	215.8	209.7	55.7	58	50.0	33.0	55.7	57.6	271.5	267.3	222.9	190.9	271.5	267.3		
2017	184.9	176	146.0	180	184.9	175.9	59.7	56	37.0	41.9	59.7	56.0	244.6	231.8	183.0	221.5	244.6	231.8		
2018	194.1	204	171.8	177	194.1	204.3	53.7	55	43.0	44.2	53.7	54.8	247.8	259.1	214.8	220.9	247.8	259.1		
2019	188.6	186	173.5	175	188.6	185.8	54.6	52	34.5	34.5	54.6	51.9	243.2	237.7	208.0	209.2	243.2	237.7		
2020	211.9	216	193.9	168	211.9	215.8	50.3	49	44.0	37.2	50.3	48.5	262.2	264.3	237.9	205.0	262.2	264.3		
2021	204.3	200	184.0	206	204.3	199.7	44.6	43	39.0	40.2	44.6	43.5	249.0	243.1	223.0	246.5	249.0	243.1		
2022	197.6	231	191.5	201	197.6	231.2	48.2	48	41.5	38.7	48.2	48.4	245.8	279.6	232.9	239.2	245.8	279.6		
2023		220	180.9	188		220.3		49	27.5	27.2		49.4		269.6		215.5		269.6		
2024		190		186		189.6		42		33.0		42.5		232.0		219.0		232.0		
2025		190		185		189.6		42		33.0		42.5		232.0		218.3		232.0		
2026		190		186		189.6		42		33.1		42.5		232.1		219.4		232.1		
2027		190		185		189.6		42		32.1		42.5		232.1		217.4		232.1		
2028		189		186		188.6		42		32.1		42.5		231.1		218.4		231.1		
2029		188		184		187.8		42		32.1		41.5		229.4		216.5		229.4		
2030		187		184		186.9		42		31.1		41.5		228.5		214.7		228.5		
2031		186		184		186.0		41		31.1		40.6		226.5		214.7		226.5		
2032		186		184		186.1		41		30.1		40.6		226.7		213.8		226.7		
2033		185		183		185.3		40		30.1		39.6		225.0		213.0		225.0		
2034		185		182		184.6		40		30.2		39.7		224.3		212.2		224.3		
2035		185		182		184.7		40		30.2		39.7		224.5		212.1		224.5		
2036		185		183		184.9		40		30.2		39.8		224.6		213.5		224.6		
2037		185		183		185.2		40		29.4		39.8		225.0		212.7		225.0		
2038		185		184		185.4		40		29.5		39.9		225.2		213.8		225.2		
2039		186		185		185.6		40		29.6		39.9		225.5		214.7		225.5		
2040		186		187		185.9		40		29.8		40.0		225.8		216.6		225.8		
2041		186		187		186.1		40		30.0		40.0		226.1		216.9		226.1		
2042		184		187		184.4		40		30.1		40.1		224.4		217.0		224.4		
2043		185		187		185.0		39		29.2		39.2		224.2		216.2		224.2		
'18-'23	-100.0%	1.5%	1.0%	1.3%	-100.0%	1.5%	-100.0%	-2.1%	-8.5%	-9.3%	-100.0%	-2.1%	-100.0%	0.8%	-100.0%	-0.5%	-100.0%	0.8%		
'23-'28		-3.1%		-0.2%		-3.1%		-3.0%		3.4%		-3.0%		-3.0%		0.3%		-3.0%		
'28-'33		-0.4%		-0.4%		-0.4%		-1.4%		-1.2%		-1.4%		-0.5%		-0.5%		-0.5%		
ports		0.0%		0.2%		0.0%		0.1%		-0.4%		0.1%		0.0%		0.1%		0.0%		
'38-'43		0.0%		0.3%		0.0%		-0.3%		-0.2%		-0.3%		-0.1%		0.2%		-0.1%		

* 2020 Summer peaks are not include since they are projections. The peak month occurred after the June 2020 cut off.
Winter values are include since the peak occurred in January 2020.

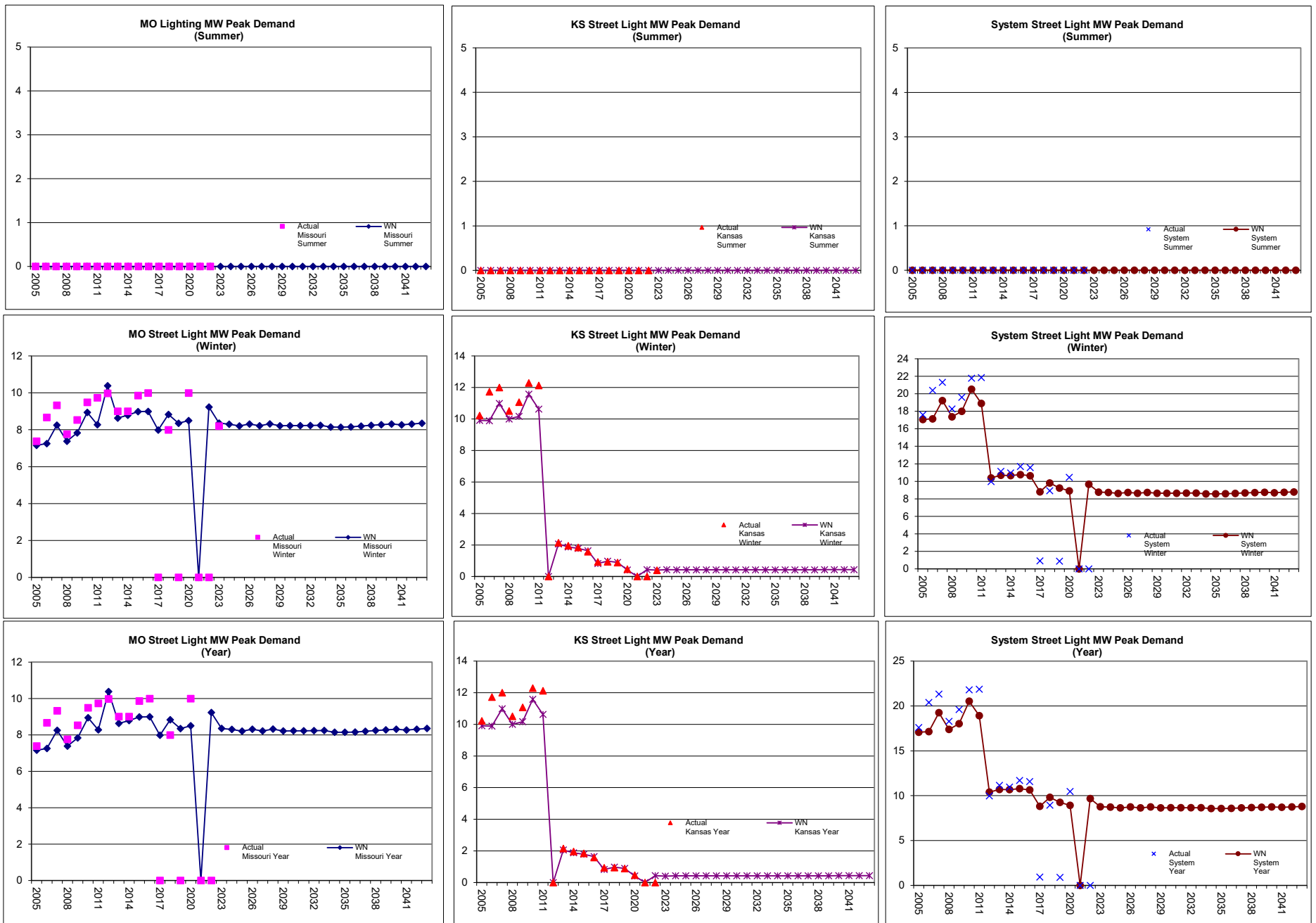


Plot 3B-5 Missouri & Kansas Street Lights and Traffic Signals MW Peak Demand (Actual vs. Weather Normalized)

Year	Missouri Summer		Missouri Winter		Missouri Year		Kansas Summer		Kansas Winter		Kansas Year		System Summer		System Winter		System Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
2005	0.0	0.0	7.4	7.2	7.4	7.2	0.0	0.0	10.2	9.9	10.2	9.9	0.0	0.0	17.6	17.1	17.6	17.1
2006	0.0	0.0	8.7	7.3	8.7	7.3	0.0	0.0	11.7	9.9	11.7	9.9	0.0	0.0	20.4	17.1	20.4	17.1
2007	0.0	0.0	9.3	8.2	9.3	8.2	0.0	0.0	12.0	11.0	12.0	11.0	0.0	0.0	21.3	19.2	21.3	19.2
2008	0.0	0.0	7.8	7.4	7.8	7.4	0.0	0.0	10.5	10.0	10.5	10.0	0.0	0.0	18.3	17.4	18.3	17.4
2009	0.0	0.0	8.5	7.8	8.5	7.8	0.0	0.0	11.1	10.2	11.1	10.2	0.0	0.0	19.6	18.0	19.6	18.0
2010	0.0	0.0	9.5	8.9	9.5	8.9	0.0	0.0	12.3	11.6	12.3	11.6	0.0	0.0	21.8	20.5	21.8	20.5
2011	0.0	0.0	9.7	8.3	9.7	8.3	0.0	0.0	12.1	10.6	12.1	10.6	0.0	0.0	21.9	18.9	21.9	18.9
2012	0.0	0.0	10.0	10.4	10.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.4	10.0	10.4
2013	0.0	0.0	9.0	8.6	9.0	8.6	0.0	0.0	2.2	2.1	2.2	2.1	0.0	0.0	11.2	10.7	11.2	10.7
2014	0.0	0.0	9.0	8.8	9.0	8.8	0.0	0.0	2.0	1.9	2.0	1.9	0.0	0.0	11.0	10.7	11.0	10.7
2015	0.0	0.0	9.9	9.0	9.9	9.0	0.0	0.0	1.8	1.8	1.8	1.8	0.0	0.0	11.7	10.8	11.7	10.8
2016	0.0	0.0	10.0	9.0	10.0	9.0	0.0	0.0	1.6	1.6	1.6	1.6	0.0	0.0	11.6	10.6	11.6	10.6
2017	0.0	0.0	0.0	8.0	0.0	8.0	0.0	0.0	0.9	0.8	0.9	0.8	0.0	0.0	0.9	8.8	0.9	8.8
2018	0.0	0.0	8.0	8.8	8.0	8.8	0.0	0.0	0.9	1.0	0.9	1.0	0.0	0.0	8.9	9.8	8.9	9.8
2019	0.0	0.0	0.0	8.4	0.0	8.4	0.0	0.0	0.9	0.9	0.9	0.9	0.0	0.0	0.9	9.2	0.9	9.2
2020	0.0	0.0	10.0	8.5	10.0	8.5	0.0	0.0	0.5	0.4	0.5	0.4	0.0	0.0	10.5	8.9	10.5	8.9
2021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2022	0.0	0.0	0.0	9.2	0.0	9.2	0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.0	0.0	9.7	0.0	9.7
2023		0.0	8.2	8.4		8.4		0.0	0.4	0.4		0.4		0.0		8.8		8.8
2024		0.0		8.3		8.3		0.0		0.4		0.4		0.0		8.7		8.7
2025		0.0		8.2		8.2		0.0		0.4		0.4		0.0		8.6		8.6
2026		0.0		8.3		8.3		0.0		0.4		0.4		0.0		8.7		8.7
2027		0.0		8.2		8.2		0.0		0.4		0.4		0.0		8.6		8.6
2028		0.0		8.3		8.3		0.0		0.4		0.4		0.0		8.7		8.7
2029		0.0		8.2		8.2		0.0		0.4		0.4		0.0		8.6		8.6
2030		0.0		8.2		8.2		0.0		0.4		0.4		0.0		8.6		8.6
2031		0.0		8.2		8.2		0.0		0.4		0.4		0.0		8.6		8.6
2032		0.0		8.2		8.2		0.0		0.4		0.4		0.0		8.7		8.7
2033		0.0		8.2		8.2		0.0		0.4		0.4		0.0		8.7		8.7
2034		0.0		8.1		8.1		0.0		0.4		0.4		0.0		8.6		8.6
2035		0.0		8.1		8.1		0.0		0.4		0.4		0.0		8.6		8.6
2036		0.0		8.2		8.2		0.0		0.4		0.4		0.0		8.6		8.6
2037		0.0		8.2		8.2		0.0		0.4		0.4		0.0		8.6		8.6
2038		0.0		8.2		8.2		0.0		0.4		0.4		0.0		8.7		8.7
2039		0.0		8.3		8.3		0.0		0.4		0.4		0.0		8.7		8.7
2040		0.0		8.3		8.3		0.0		0.4		0.4		0.0		8.7		8.7
2041		0.0		8.3		8.3		0.0		0.4		0.4		0.0		8.7		8.7
2042		0.0		8.3		8.3		0.0		0.4		0.4		0.0		8.7		8.7
2043		0.0		8.4		8.4		0.0		0.4		0.4		0.0		8.8		8.8
'18-'23	#DIV/0!	#DIV/0!	0.5%	-1.1%	-100.0%	-1.1%	#DIV/0!	#DIV/0!	-16.0%	-16.2%	-100.0%	-16.2%	#DIV/0!	#DIV/0!	-100.0%	-2.2%	-100.0%	-2.2%
'23-'28		#DIV/0!		-0.1%		-0.1%	#DIV/0!	#DIV/0!		0.9%		0.9%	#DIV/0!	#DIV/0!		-0.1%		-0.1%
'28-'33		#DIV/0!		-0.2%		-0.2%	#DIV/0!	#DIV/0!		0.1%		0.1%	#DIV/0!	#DIV/0!		-0.2%		-0.2%
ports		#DIV/0!		0.0%		0.0%	#DIV/0!	#DIV/0!		0.3%		0.3%	#DIV/0!	#DIV/0!		0.0%		0.0%
'38-'43		#DIV/0!		0.3%		0.3%	#DIV/0!	#DIV/0!		0.5%		0.5%	#DIV/0!	#DIV/0!		0.3%		0.3%

* Decline in Kansas lighting due to sale of lights to city of Olathe as well as LED installation.

* 2020 Summer peaks are not include since they are projections. The peak month occurred after the June 2020 cut off.

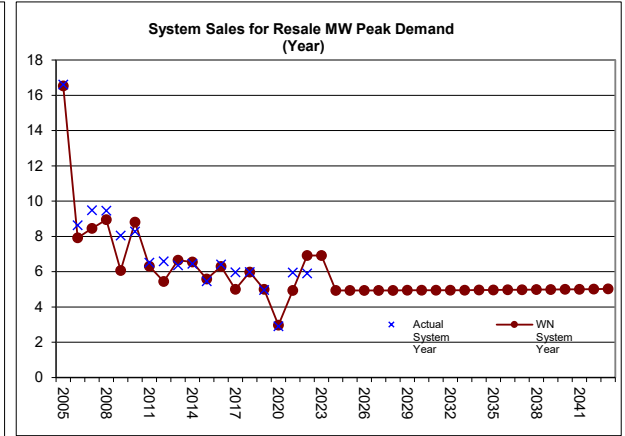
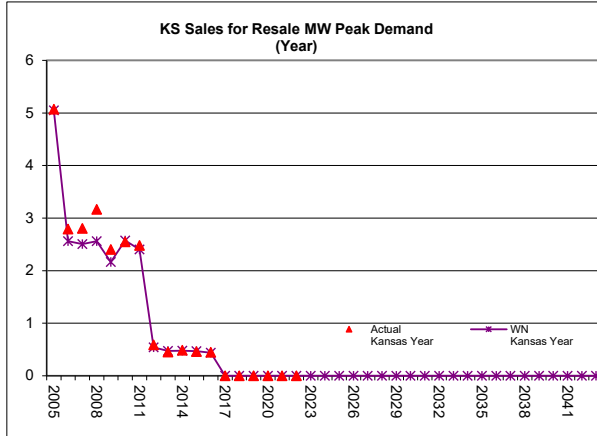
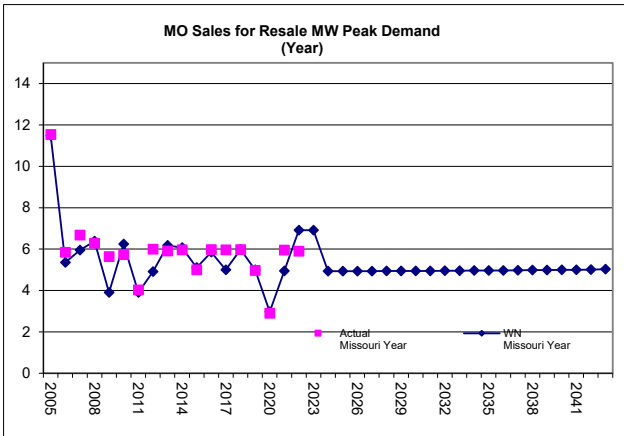
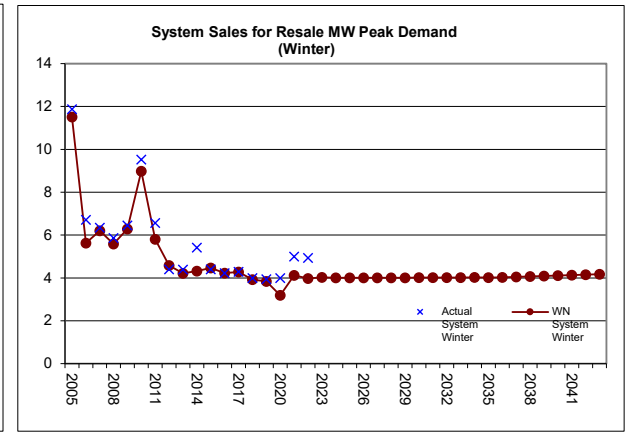
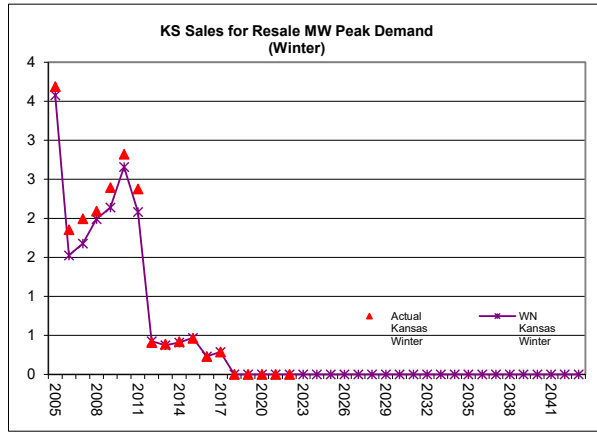
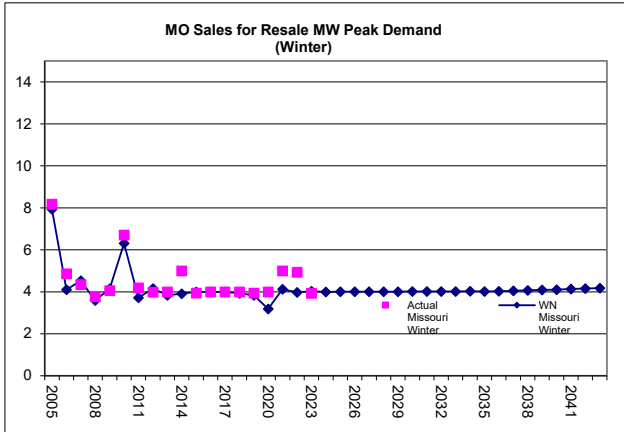
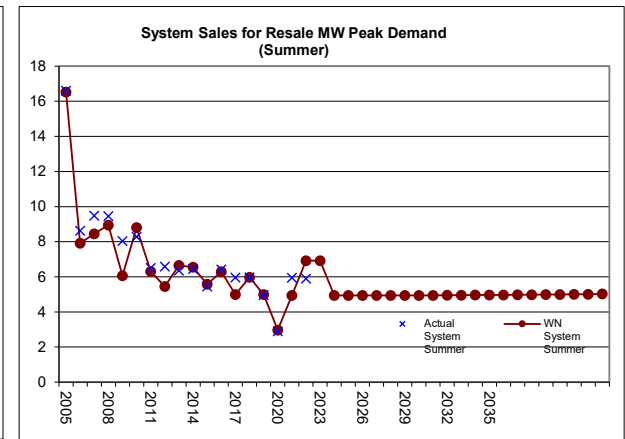
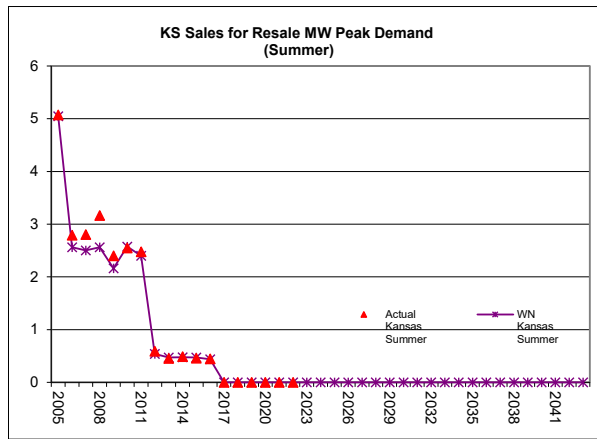
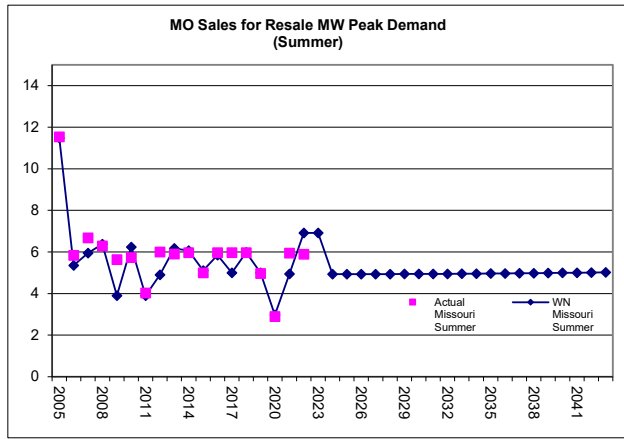


Plot 3B-6 Missouri & Kansas Sales for Resale MW Peak Demand (Actual vs. Weather Normalized)

Year	Actual		WN		Actual		WN		Actual		WN		Actual		WN		Actual		WN	
	Missouri Summer	Missouri Summer	Missouri Winter	Missouri Winter	Missouri Year	Missouri Year	Kansas Summer	Kansas Summer	Kansas Winter	Kansas Winter	Kansas Year	Kansas Year	System Summer	System Summer	System Winter	System Winter	System Year	System Year		
2005	11.5	11	8.2	7.9	11.5	11.5	5.1	5.0	3.7	3.6	5.1	5.0	16.6	16.5	11.9	11.5	16.6	16.5		
2006	5.8	5	4.9	4.1	5.8	5.4	2.8	2.6	1.9	1.5	2.8	2.6	8.6	7.9	6.7	5.6	8.6	7.9		
2007	6.7	6	4.3	4.5	6.7	6.0	2.8	2.5	2.0	1.7	2.8	2.5	9.5	8.5	6.3	6.2	9.5	8.5		
2008	6.3	6	3.8	3.6	6.3	6.4	3.2	2.6	2.1	2.0	3.2	2.6	9.5	8.9	5.9	5.6	9.5	8.9		
2009	5.6	4	4.1	4.1	5.6	3.9	2.4	2.2	2.4	2.1	2.4	2.2	8.0	6.1	6.5	6.3	8.0	6.1		
2010	5.7	6	6.7	6.3	5.7	6.2	2.5	2.6	2.8	2.7	2.5	2.6	8.3	8.8	9.5	9.0	8.3	8.8		
2011	4.0	4	4.2	3.7	4.0	3.9	2.5	2.4	2.4	2.1	2.5	2.4	6.5	6.3	6.6	5.8	6.5	6.3		
2012	6.0	5	4.0	4.2	6.0	4.9	0.6	0.5	0.4	0.4	0.6	0.5	6.6	5.4	4.4	4.6	6.6	5.4		
2013	5.9	6	4.0	3.8	5.9	6.2	0.5	0.5	0.4	0.4	0.5	0.5	6.4	6.6	4.4	4.2	6.4	6.6		
2014	6.0	6	5.0	3.9	6.0	6.1	0.5	0.5	0.4	0.4	0.5	0.5	6.5	6.5	5.4	4.3	6.5	6.5		
2015	5.0	5	3.9	4.0	5.0	5.1	0.5	0.5	0.5	0.5	0.5	0.5	5.5	5.6	4.4	4.5	5.5	5.6		
2016	6.0	6	4.0	4.0	6.0	5.9	0.4	0.4	0.2	0.2	0.4	0.4	6.4	6.3	4.2	4.2	6.4	6.3		
2017	6.0	5	4.0	4.0	6.0	5.0	0.0	0.0	0.3	0.3	0.0	0.0	6.0	5.0	4.3	4.3	6.0	5.0		
2018	6.0	6	4.0	3.9	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0	4.0	3.9	6.0	6.0		
2019	5.0	5	3.9	3.8	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0	3.9	3.8	5.0	5.0		
2020	2.9	3	4.0	3.2	2.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	3.0	4.0	3.2	2.9	3.0		
2021	6.0	5	5.0	4.1	6.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	6.0	4.9	5.0	4.1	6.0	4.9		
2022	5.9	7	4.9	4.0	5.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0	5.9	6.9	4.9	4.0	5.9	6.9		
2023		7	3.9	4.0		6.9		0.0		0.0		0.0		6.9		4.0		6.9		
2024		5		4.0		4.9		0.0		0.0		0.0		4.9		4.0		4.9		
2025		5		4.0		4.9		0.0		0.0		0.0		4.9		4.0		4.9		
2026		5		4.0		4.9		0.0		0.0		0.0		4.9		4.0		4.9		
2027		5		4.0		4.9		0.0		0.0		0.0		4.9		4.0		4.9		
2028		5		4.0		4.9		0.0		0.0		0.0		4.9		4.0		4.9		
2029		5		4.0		4.9		0.0		0.0		0.0		4.9		4.0		4.9		
2030		5		4.0		4.9		0.0		0.0		0.0		4.9		4.0		4.9		
2031		5		4.0		4.9		0.0		0.0		0.0		4.9		4.0		4.9		
2032		5		4.0		4.9		0.0		0.0		0.0		4.9		4.0		4.9		
2033		5		4.0		5.0		0.0		0.0		0.0		5.0		4.0		5.0		
2034		5		4.0		5.0		0.0		0.0		0.0		5.0		4.0		5.0		
2035		5		4.0		5.0		0.0		0.0		0.0		5.0		4.0		5.0		
2036		5		4.0		5.0		0.0		0.0		0.0		5.0		4.0		5.0		
2037		5		4.1		5.0		0.0		0.0		0.0		5.0		4.1		5.0		
2038		5		4.1		5.0		0.0		0.0		0.0		5.0		4.1		5.0		
2039		5		4.1		5.0		0.0		0.0		0.0		5.0		4.1		5.0		
2040		5		4.1		5.0		0.0		0.0		0.0		5.0		4.1		5.0		
2041		5		4.1		5.0		0.0		0.0		0.0		5.0		4.1		5.0		
2042		5		4.2		5.0		0.0		0.0		0.0		5.0		4.2		5.0		
2043		5		4.2		5.0		0.0		0.0		0.0		5.0		4.2		5.0		
'18-'23	-100.0%	2.9%	-0.3%	0.5%	-100.0%	2.9%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	-100.0%	2.9%	-100.0%	0.5%	-100.0%	2.9%		
'23-'28		-6.5%		-0.1%		-6.5%		#DIV/0!		#DIV/0!		#DIV/0!		-6.5%		-0.1%		-6.5%		
'28-'33		0.1%		0.1%		0.1%		#DIV/0!		#DIV/0!		#DIV/0!		0.1%		0.1%		0.1%		
ports		0.1%		0.3%		0.1%		#DIV/0!		#DIV/0!		#DIV/0!		0.1%		0.3%		0.1%		
'38-'43		0.2%		0.5%		0.2%		#DIV/0!		#DIV/0!		#DIV/0!		0.2%		0.5%		0.2%		

* Decline in Kansas Sales for Resale due to last few customers leaving (Owatta, Pomona - July 2015, Prescott - June 2017). There are no KS SFR Customers after June 2017.

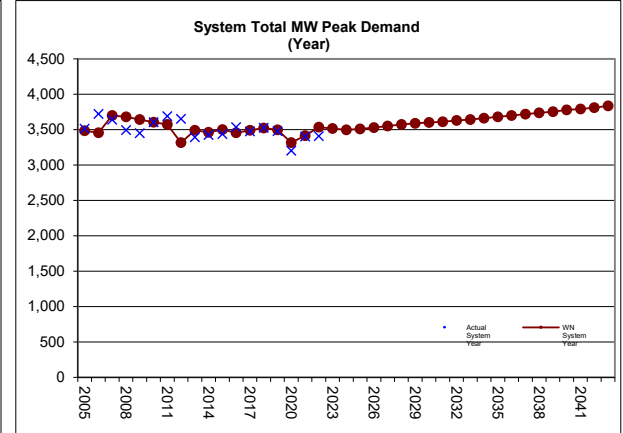
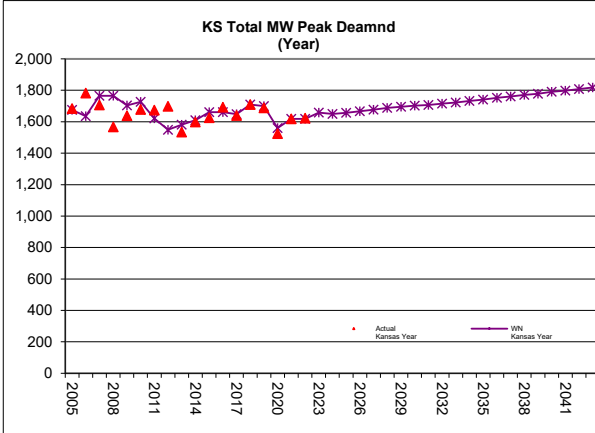
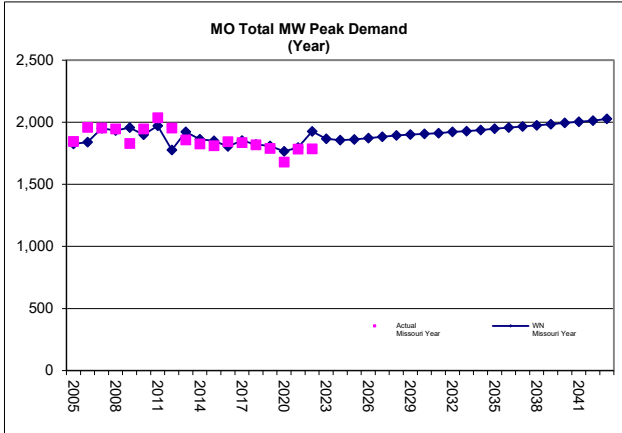
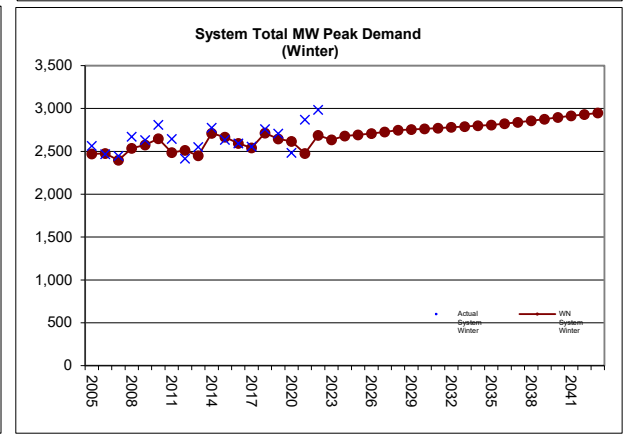
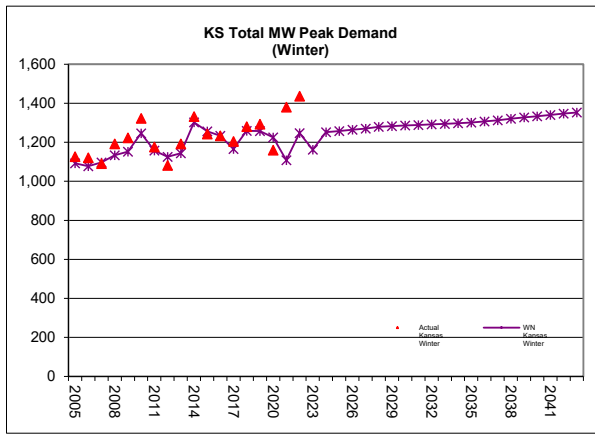
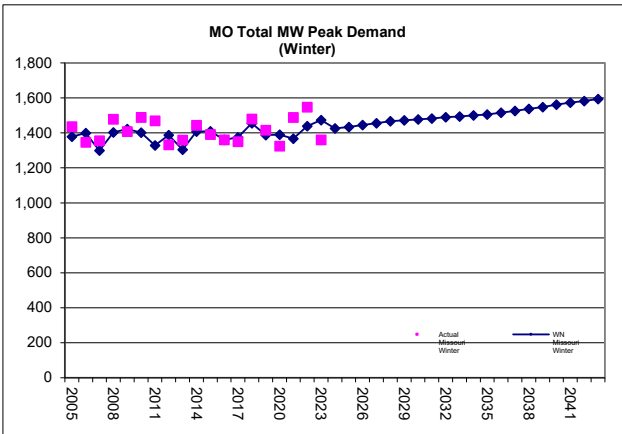
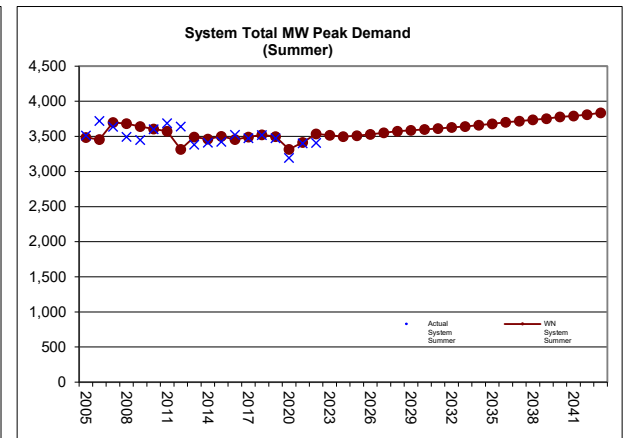
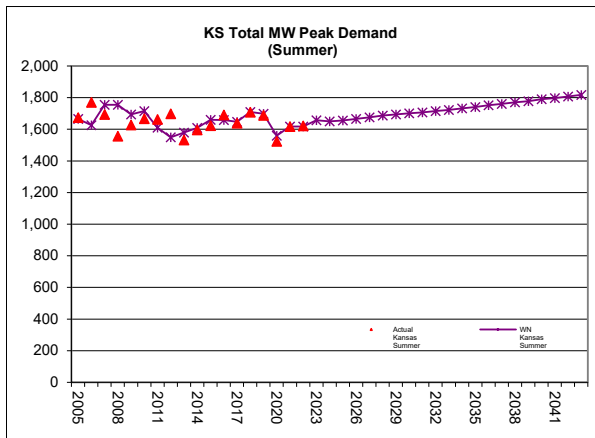
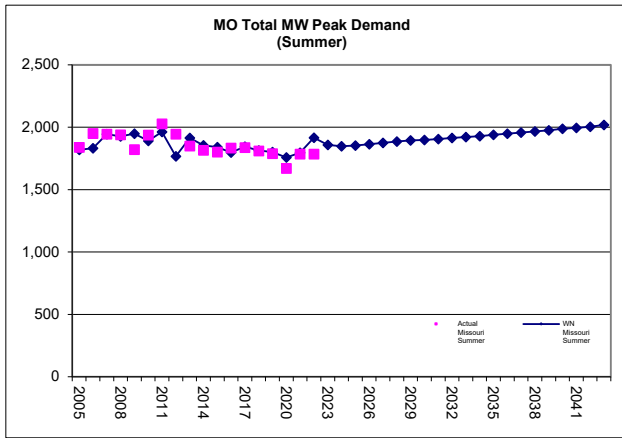
* 2020 Summer peaks are not include since they are projections. The peak month occurred after the June 2020 cut off.

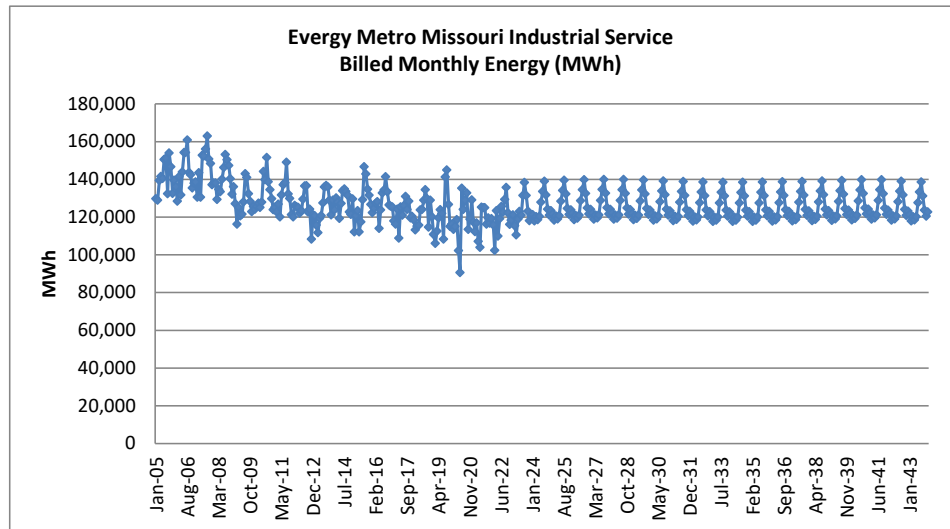
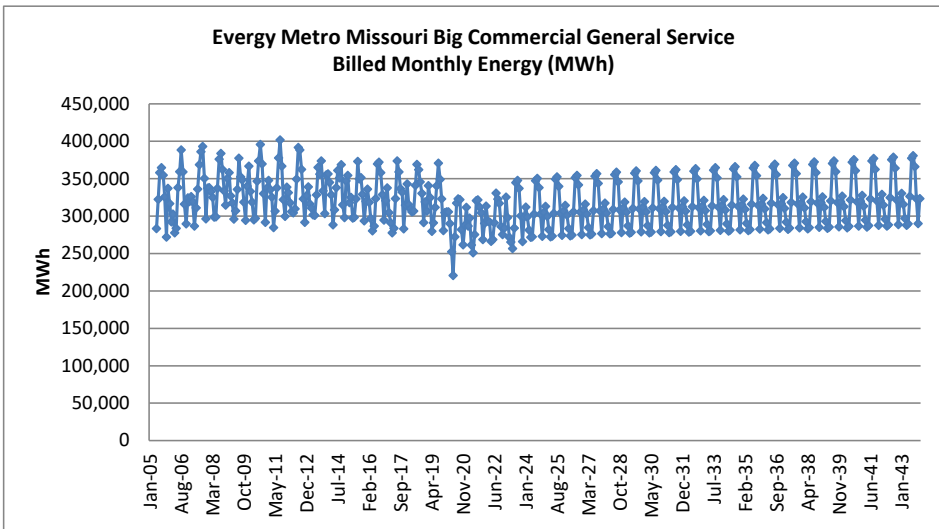
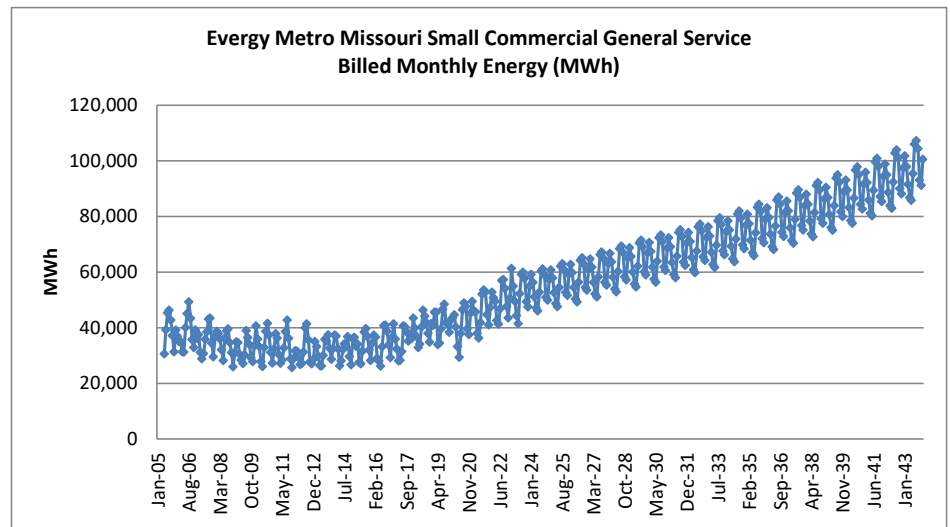
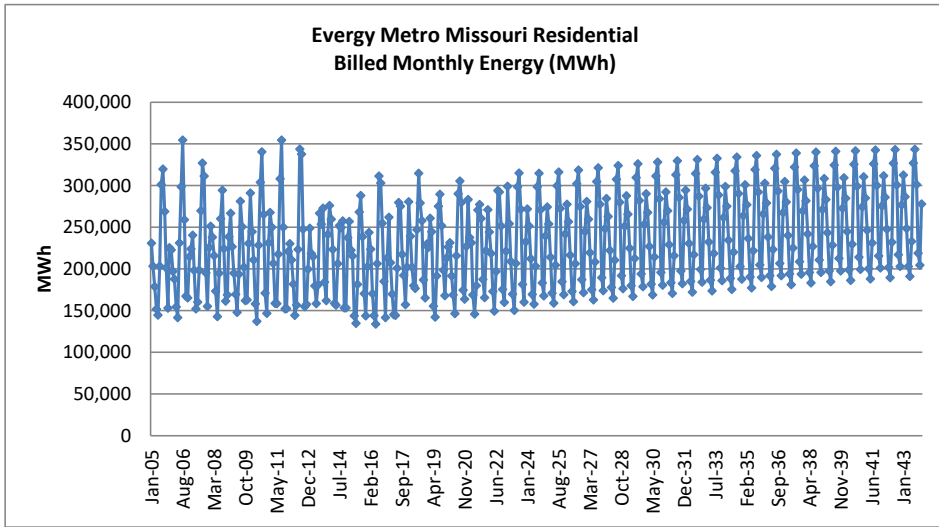


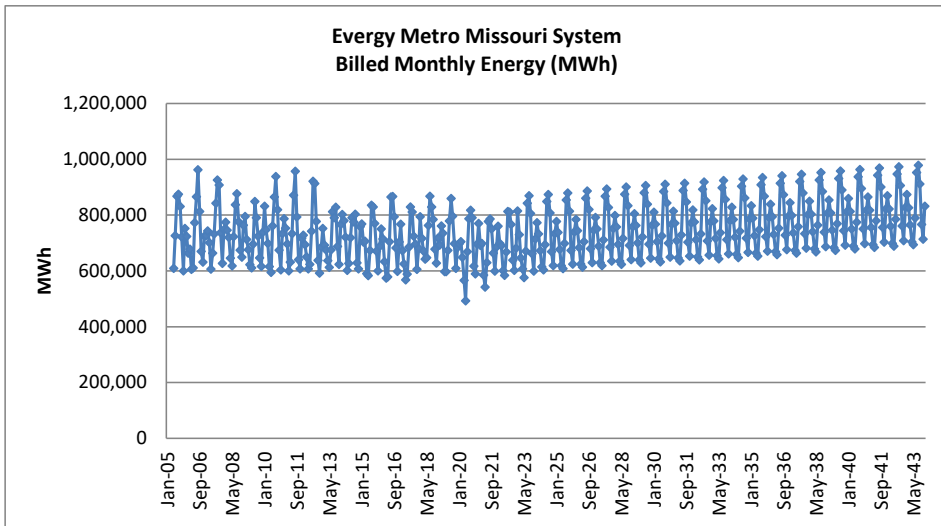
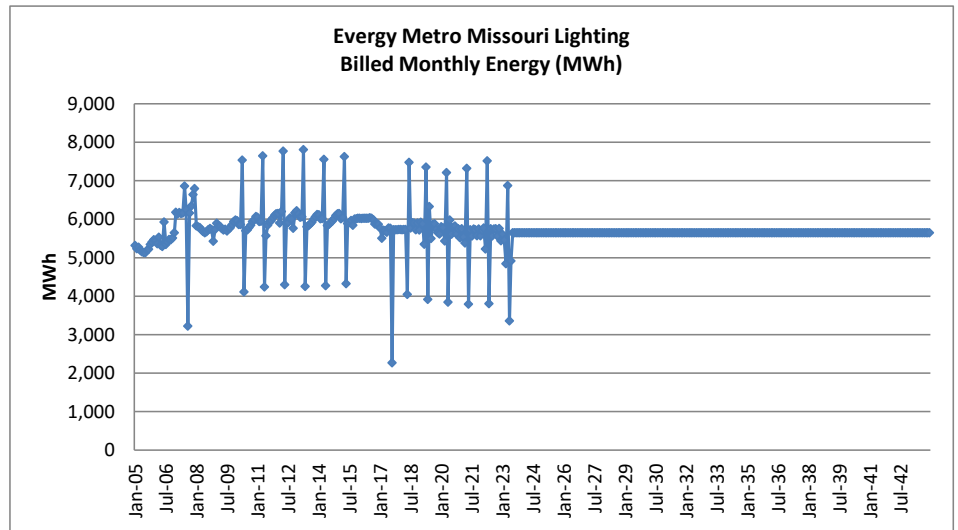
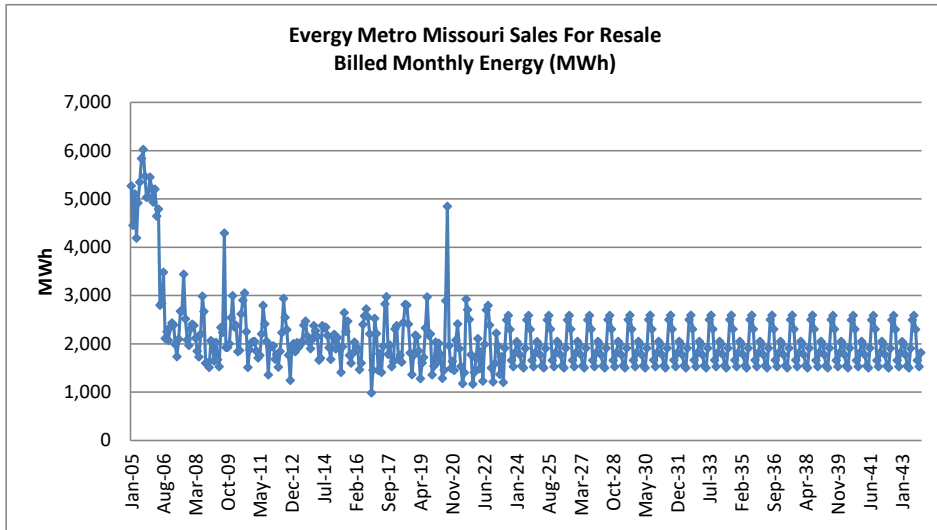
Plot 3B-7 Missouri & Kansas Total System MW Peak Demand (Actual vs. Weather Normalized)

Year	Actual		WN		Actual		WN		Actual		WN		Actual		WN		Actual		WN	
	Missouri Summer	Missouri Summer	Missouri Winter	Missouri Winter	Missouri Year	Missouri Year	Kansas Summer	Kansas Summer	Kansas Winter	Kansas Winter	Kansas Year	Kansas Year	System Summer	System Summer	System Winter	System Winter	System Year	System Year		
2005	1,838.4	1,818.3	1,436.3	1,378.1	1,845.8	1,825.5	1,673.6	1,666.0	1,126.7	1,092.4	1,683.8	1,675.9	3,512.0	3,484.3	2,563.0	2,470.5	3,512.0	3,484.3		
2006	1,950.3	1,831.6	1,346.1	1,399.0	1,959.0	1,838.9	1,770.7	1,625.5	1,120.9	1,077.5	1,782.4	1,635.4	3,721.0	3,457.1	2,467.0	2,476.5	3,721.0	3,457.1		
2007	1,944.0	1,943.8	1,354.8	1,298.6	1,953.3	1,952.1	1,694.0	1,754.5	1,091.2	1,097.2	1,706.0	1,765.5	3,638.0	3,698.3	2,446.0	2,395.8	3,638.0	3,698.3		
2008	1,938.5	1,926.5	1,478.2	1,402.3	1,946.3	1,933.9	1,556.5	1,754.5	1,191.8	1,133.8	1,567.0	1,764.5	3,495.0	3,681.0	2,670.0	2,536.1	3,495.0	3,681.0		
2009	1,820.5	1,948.7	1,407.8	1,421.5	1,829.1	1,956.6	1,627.5	1,693.3	1,223.2	1,152.5	1,638.5	1,703.4	3,448.0	3,642.0	2,631.0	2,574.0	3,448.0	3,642.0		
2010	1,936.7	1,889.9	1,488.4	1,402.1	1,946.2	1,898.9	1,666.3	1,715.1	1,322.6	1,245.9	1,678.6	1,726.6	3,603.0	3,605.0	2,811.0	2,648.0	3,603.0	3,605.0		
2011	2,026.8	1,963.0	1,469.5	1,328.8	2,036.5	1,971.3	1,662.2	1,610.0	1,176.5	1,158.2	1,674.3	1,620.6	3,689.0	3,573.0	2,646.0	2,487.0	3,689.0	3,573.0		
2012	1,944.2	1,767.0	1,332.3	1,387.0	1,954.1	1,777.4	1,697.8	1,549.0	1,081.7	1,126.0	1,697.8	1,549.0	3,642.0	3,316.0	2,414.0	2,513.0	3,652.0	3,316.0		
2013	1,849.4	1,913.4	1,359.3	1,303.9	1,858.4	1,922.0	1,532.6	1,578.6	1,192.7	1,144.1	1,534.7	1,580.7	3,382.0	3,492.0	2,552.0	2,448.0	3,393.2	3,492.0		
2014	1,815.8	1,854.8	1,443.5	1,408.6	1,824.8	1,863.6	1,596.2	1,608.2	1,332.5	1,302.3	1,598.1	1,610.1	3,412.0	3,463.0	2,776.0	2,710.9	3,423.0	3,463.0		
2015	1,801.4	1,841.1	1,391.7	1,408.7	1,811.2	1,850.1	1,623.6	1,659.8	1,242.3	1,257.1	1,625.5	1,661.6	3,425.0	3,500.9	2,634.0	2,665.8	3,436.7	3,500.9		
2016	1,832.7	1,797.2	1,360.8	1,360.3	1,842.7	1,806.2	1,691.3	1,658.7	1,233.2	1,233.3	1,692.9	1,660.3	3,524.0	3,455.9	2,594.0	2,593.6	3,535.6	3,455.9		
2017	1,836.5	1,844.4	1,350.4	1,374.5	1,836.5	1,852.4	1,638.5	1,647.7	1,204.9	1,165.7	1,639.4	1,648.5	3,475.0	3,492.1	2,555.3	2,540.2	3,475.9	3,492.1		
2018	1,810.1	1,812.7	1,479.5	1,455.0	1,818.1	1,821.5	1,707.9	1,709.1	1,280.5	1,258.5	1,708.8	1,710.1	3,518.0	3,521.8	2,760.0	2,713.5	3,526.9	3,521.8		
2019	1,788.5	1,800.2	1,415.9	1,387.4	1,788.5	1,808.6	1,687.5	1,698.1	1,293.1	1,257.9	1,688.4	1,699.0	3,476.0	3,498.4	2,709.0	2,645.3	3,476.9	3,498.4		
2020	1,669.4	1,757.3	1,324.1	1,390.1	1,679.3	1,765.8	1,523.6	1,559.0	1,159.9	1,225.2	1,524.1	1,559.4	3,193.0	3,316.2	2,484.0	2,615.3	3,203.5	3,316.2		
2021	1,784.2	1,796.1	1,489.1	1,367.3	1,784.2	1,796.1	1,617.8	1,618.0	1,380.9	1,108.5	1,617.8	1,618.0	3,402.0	3,414.0	2,870.0	2,475.8	3,402.0	3,414.0		
2022	1,784.9	1,916.5	1,547.0	1,439.1	1,784.9	1,925.8	1,622.1	1,618.1	1,437.0	1,247.3	1,622.1	1,618.5	3,407.0	3,534.6	2,984.0	2,686.4	3,407.0	3,534.6		
2023		1,858.6	1,360.1	1,472.7		1,867.0		1,657.4		1,162.5		1,657.8		3,516.0		2,635.1		3,516.0		
2024		1,847.2		1,426.4		1,855.5		1,649.8		1,251.6		1,650.2		3,497.0		2,678.0		3,497.0		
2025		1,853.1		1,433.1		1,855.9		1,655.9		1,257.9		1,656.3		3,509.0		2,691.0		3,509.0		
2026		1,864.1		1,444.5		1,872.4		1,665.9		1,264.5		1,666.3		3,530.0		2,709.0		3,530.0		
2027		1,874.3		1,455.3		1,882.5		1,675.7		1,270.7		1,676.2		3,550.0		2,726.0		3,550.0		
2028		1,886.0		1,467.0		1,894.4		1,687.0		1,279.0		1,687.4		3,573.0		2,746.0		3,573.0		
2029		1,893.5		1,471.7		1,901.7		1,694.5		1,283.3		1,694.9		3,588.0		2,755.0		3,588.0		
2030		1,898.8		1,477.4		1,907.1		1,701.2		1,286.6		1,701.6		3,600.0		2,764.0		3,600.0		
2031		1,904.5		1,482.5		1,912.7		1,706.5		1,288.5		1,707.0		3,611.0		2,771.0		3,611.0		
2032		1,913.6		1,489.5		1,921.9		1,715.4		1,292.5		1,715.8		3,629.0		2,782.0		3,629.0		
2033		1,920.5		1,493.6		1,928.7		1,721.5		1,294.4		1,722.0		3,642.0		2,788.0		3,642.0		
2034		1,929.3		1,500.2		1,937.4		1,731.7		1,297.8		1,732.1		3,661.0		2,798.0		3,661.0		
2035		1,939.0		1,505.8		1,947.2		1,741.0		1,301.2		1,741.4		3,680.0		2,807.0		3,680.0		
2036		1,948.9		1,515.2		1,957.0		1,752.1		1,306.8		1,752.5		3,701.0		2,822.0		3,701.0		
2037		1,957.6		1,526.1		1,965.8		1,760.4		1,312.9		1,760.8		3,718.0		2,839.0		3,718.0		
2038		1,966.1		1,537.3		1,974.3		1,769.9		1,320.7		1,770.3		3,736.0		2,858.0		3,736.0		
2039		1,975.2		1,547.8		1,983.5		1,777.8		1,327.2		1,778.2		3,753.0		2,875.0		3,753.0		
2040		1,987.2		1,561.2		1,995.5		1,789.8		1,333.8		1,790.2		3,777.0		2,895.0		3,777.0		
2041		1,995.3		1,572.7		2,003.5		1,796.7		1,340.3		1,797.1		3,792.0		2,913.0		3,792.0		
2042		2,004.4		1,582.7		2,012.7		1,806.6		1,347.3		1,807.0		3,811.0		2,930.0		3,811.0		
2043		2,018.4		1,594.2		2,026.7		1,817.6		1,352.8		1,818.0		3,836.0		2,947.0		3,836.0		
'18-'23	-100.0%	0.5%	-1.7%	0.2%	-100.0%	0.5%	-100.0%	-0.6%	-100.0%	-1.6%	-100.0%	-0.6%	-100.0%	0.0%	-100.0%	-0.6%	-100.0%	0.0%		
'23-'28		0.3%		-0.1%		0.3%		0.4%		1.9%		0.4%		0.3%		0.8%		0.3%		
'28-'33		0.4%		0.4%		0.4%		0.4%		0.2%		0.4%		0.4%		0.3%		0.4%		
ports		0.5%		0.6%		0.5%		0.6%		0.4%		0.6%		0.5%		0.5%		0.5%		
'38-'43		0.5%		0.7%		0.5%		0.5%		0.5%		0.5%		0.5%		0.6%		0.5%		

* 2020 Summer peaks are not include since they are projections. The peak month occurred after the June 2020 cut off.
 Winter values are include since the peak occurred in January 2020.

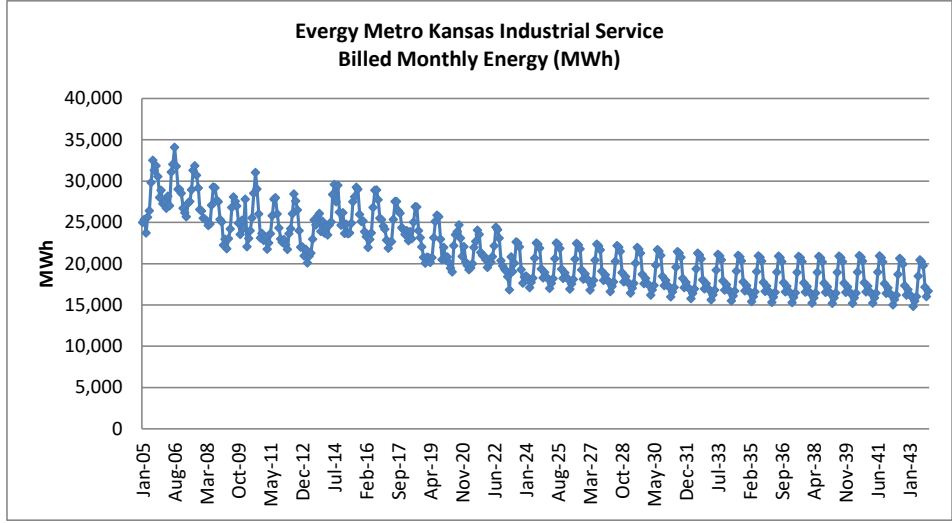
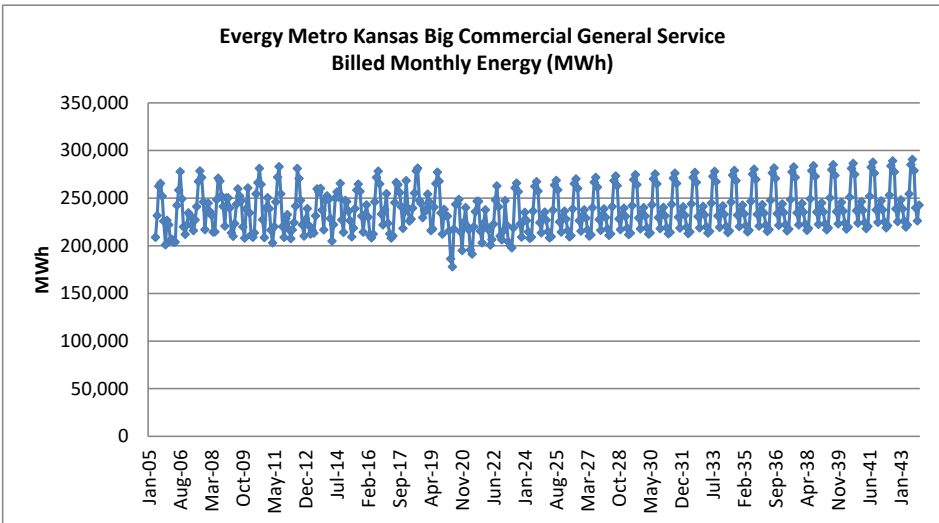
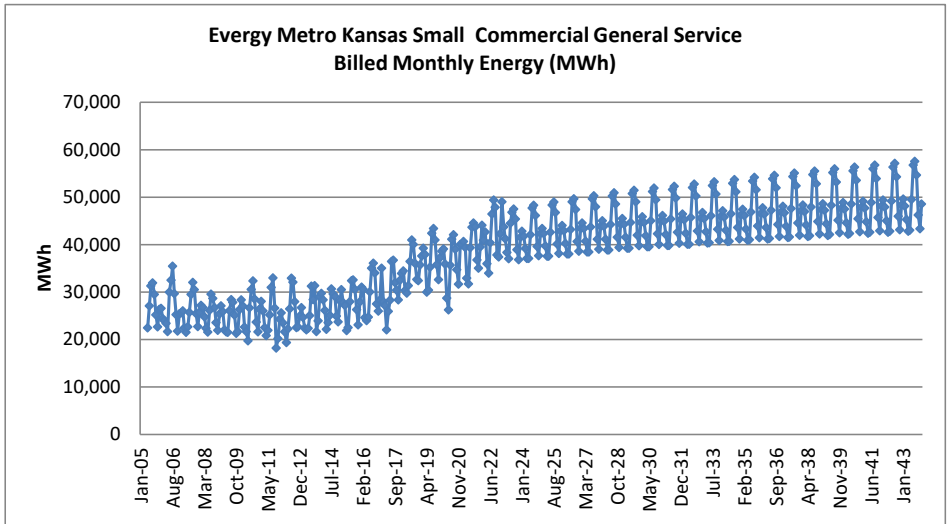
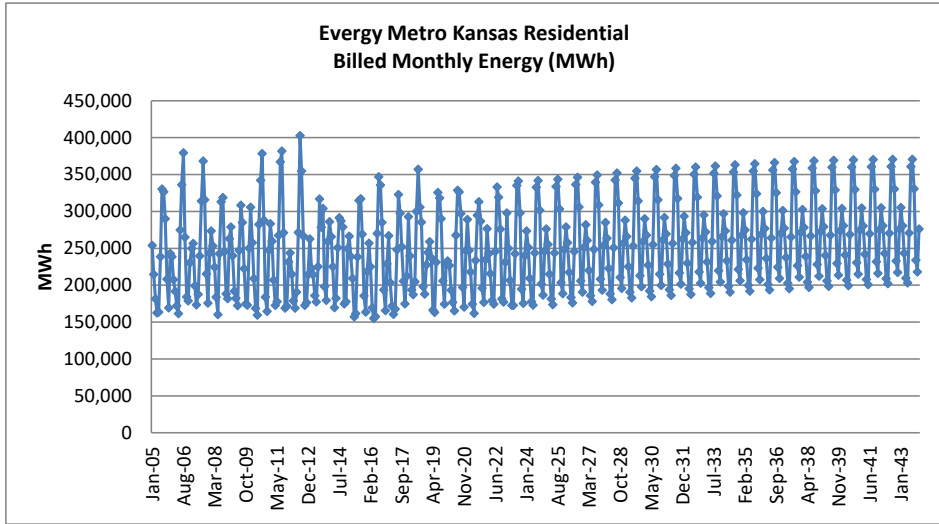




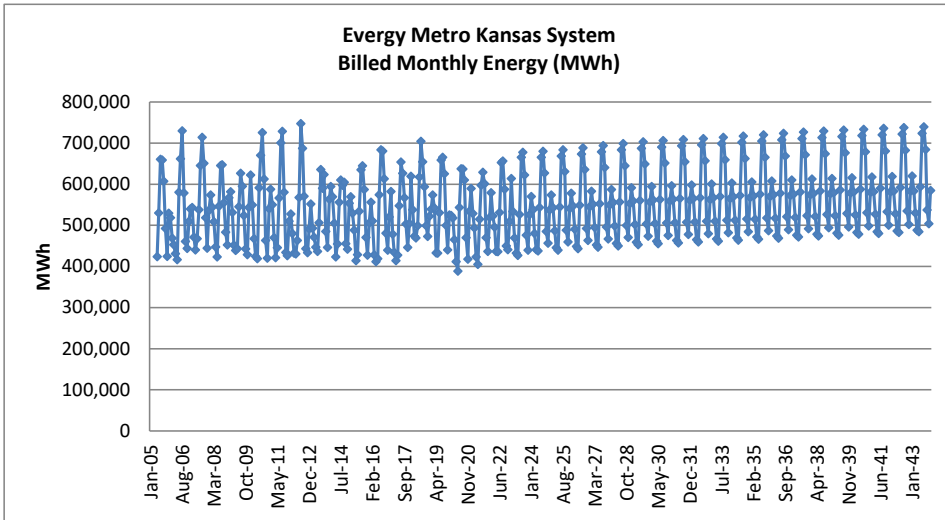
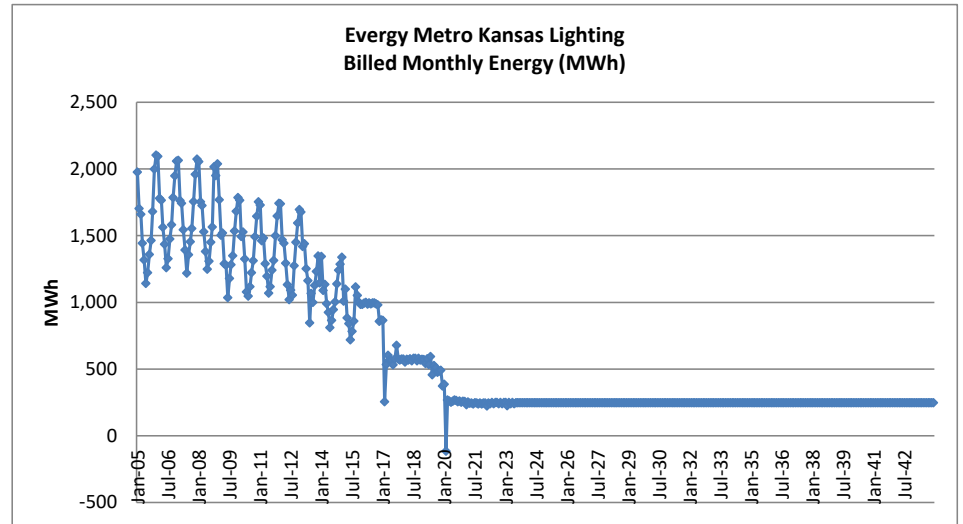
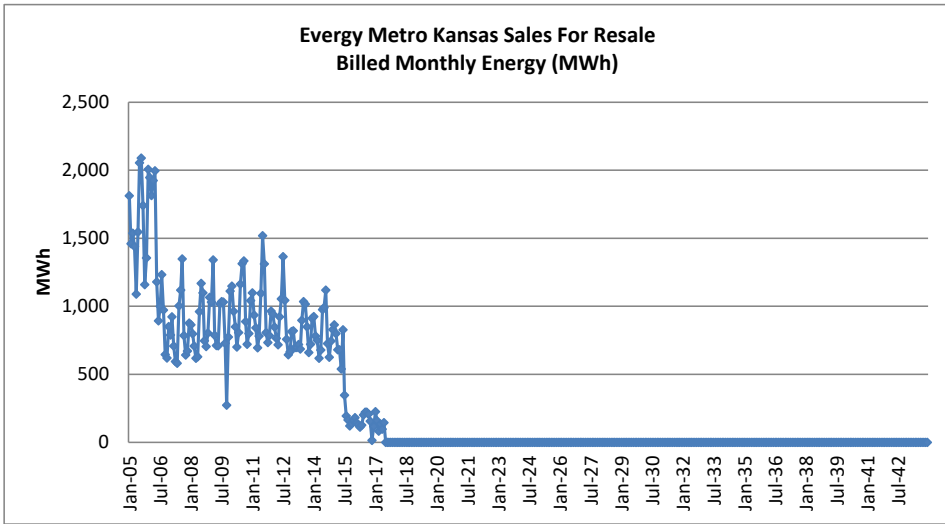


*Errors are due to rate switchers and billing errors. These outlier data points are adjusted for in the models.

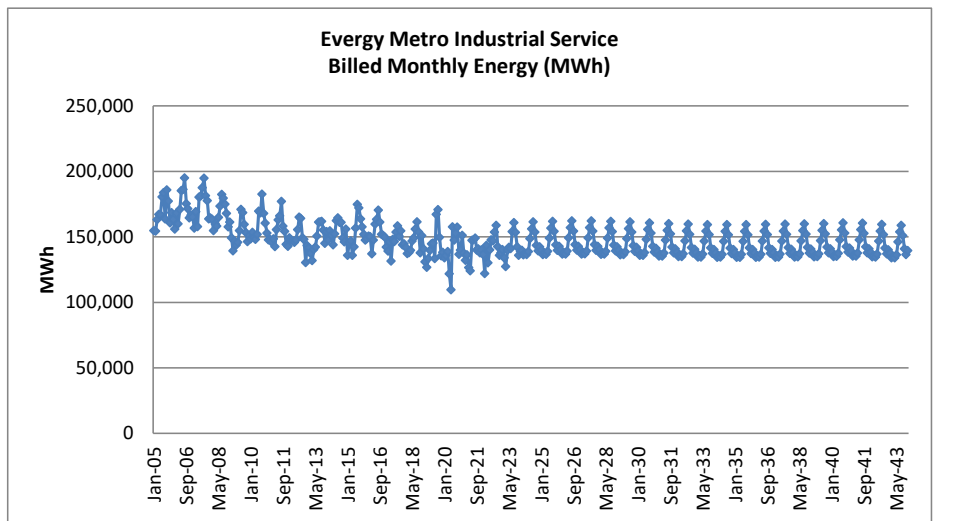
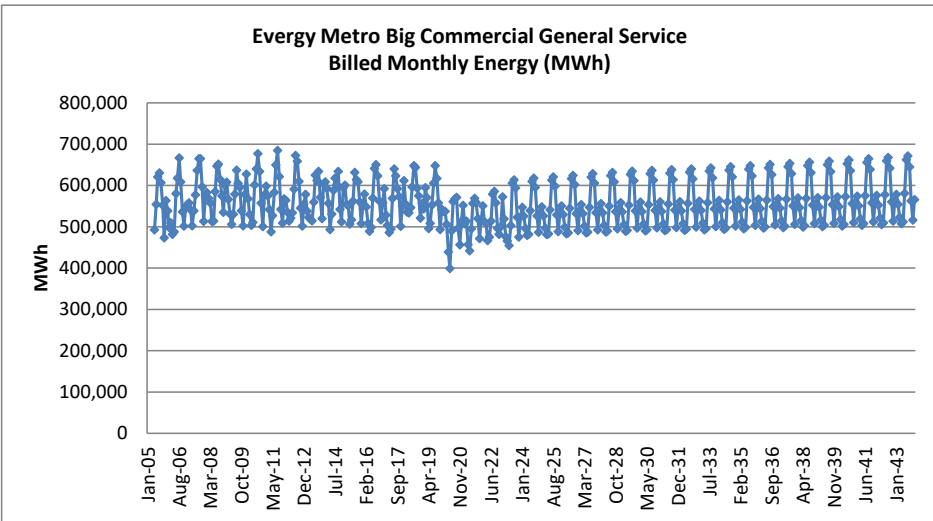
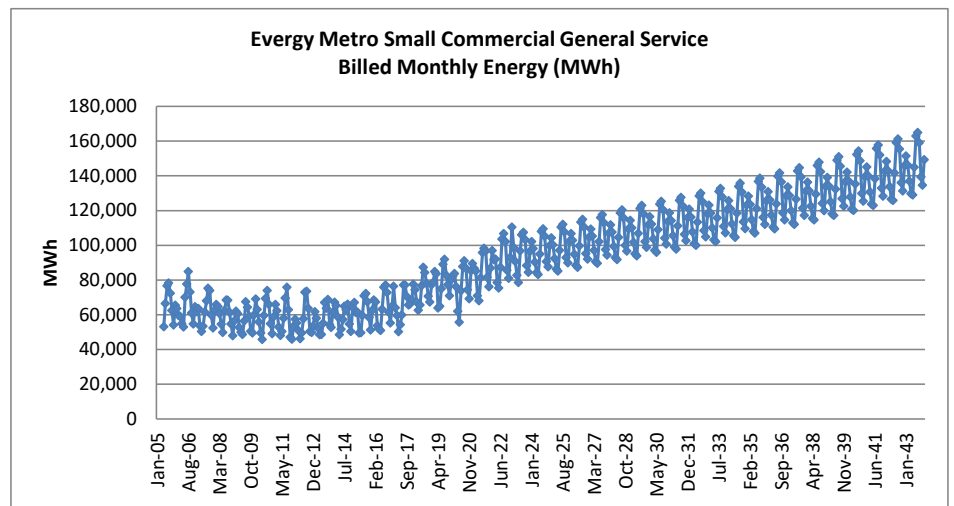
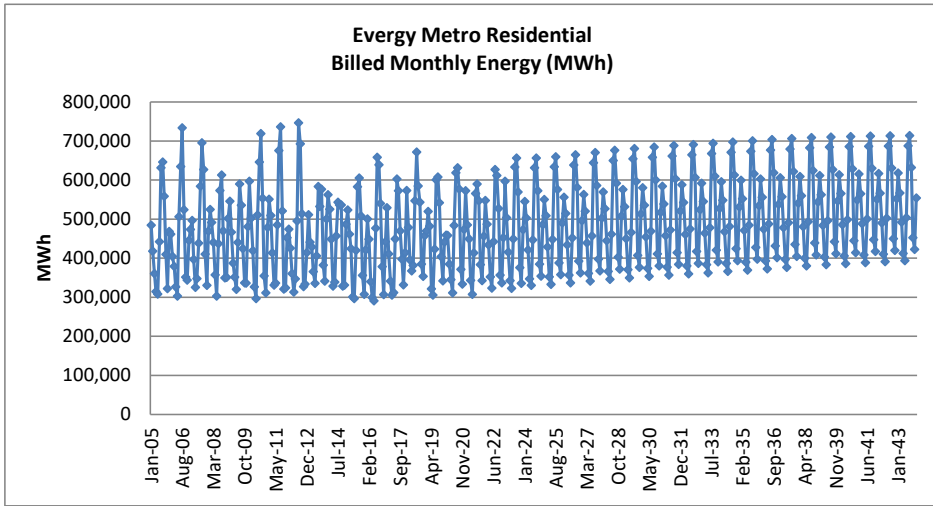
** Lighting bumps in April and May are due to billing request by City of Kansas City Missouri



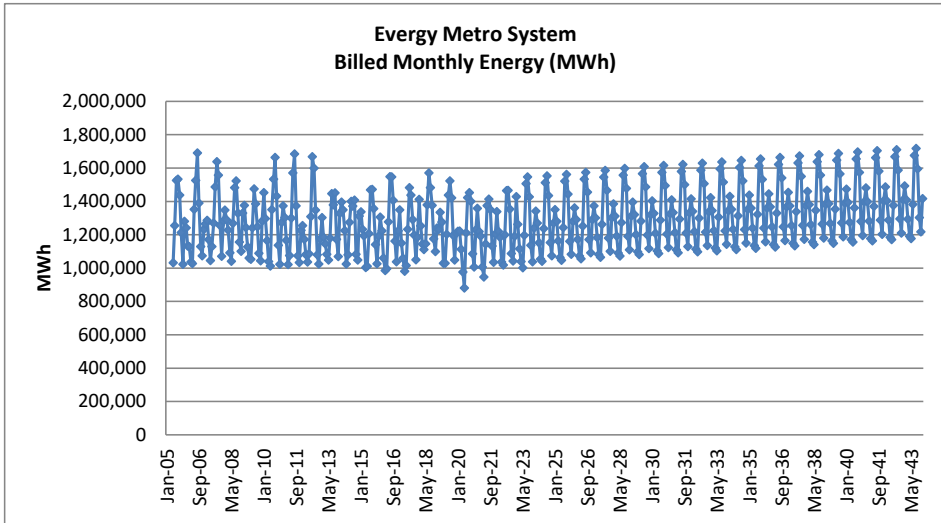
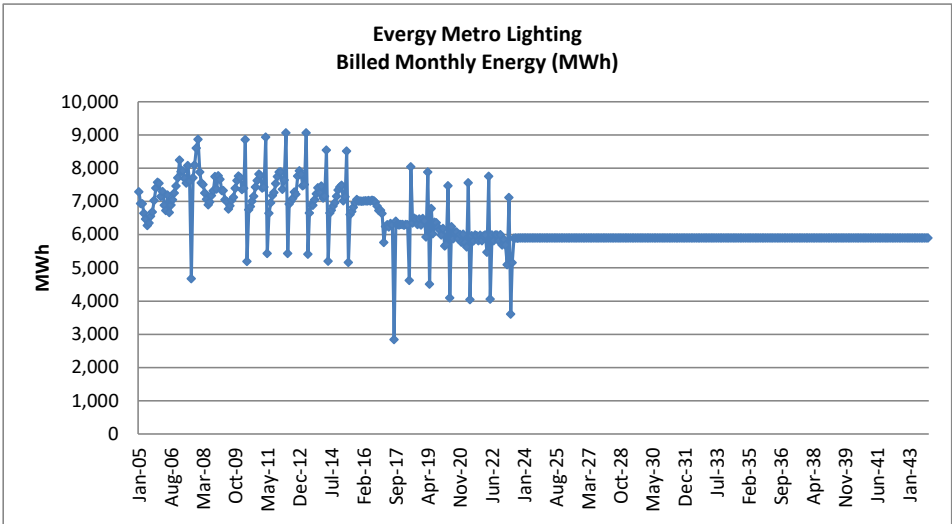
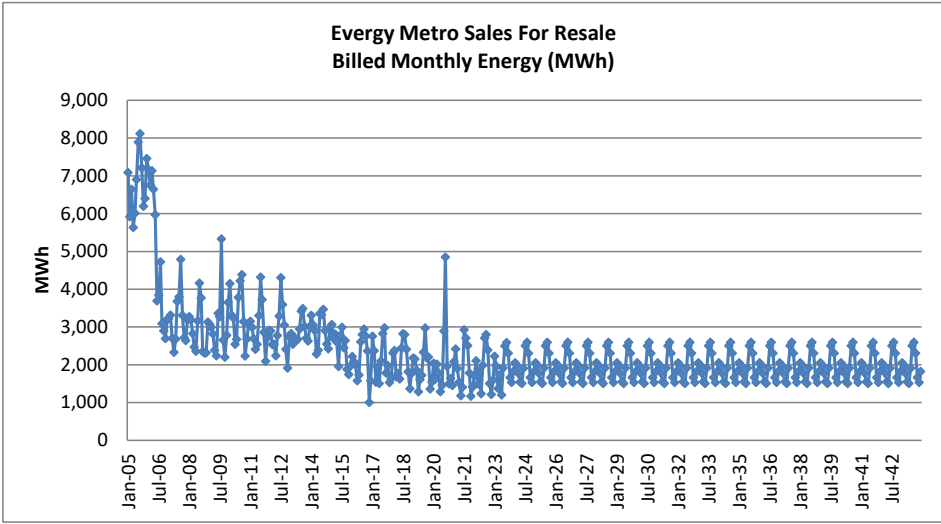
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