

Part 1 - Appendix I
Kansas City Power & Light Reports

Missouri 4 CSR 240-22.030 (8) Reporting Requirements
Load Analysis and Forecasting

(8)(B) For each major class specified in subsection (1)(A) the utility shall provide plots of class demand per unit and class total demand at time of summer and winter system peak. The plots shall cover the historical data base period and the forecast period of at least twenty (20) years.

(8)(B)(1) The plots for the historical period shall include both actual and weather-normalized class demands

(8)(B)(2) The plots for the forecast period shall show each end-use component of major class coincident demands per unit and total class coincident demands for the base-case forecast.

Compliance: See Plots I-1 through I-35 for base-case KCP&L forecast reports designed to comply with section (8)(B) reporting requirements.

Linked Files:**Work Files**

WN PeakSumWin.xls

Act PeakSumWin.xls

Project Files

IRP_8B_KCPL_Peaks.xls

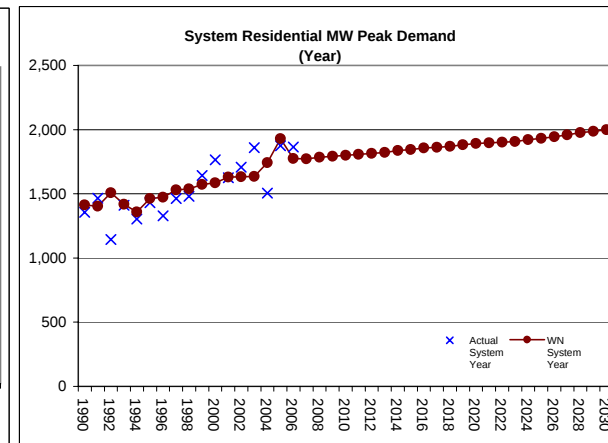
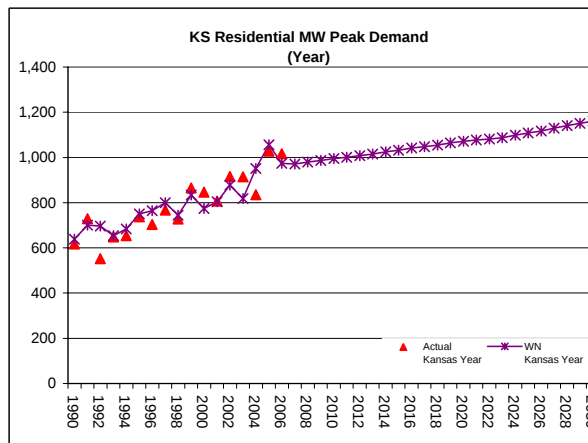
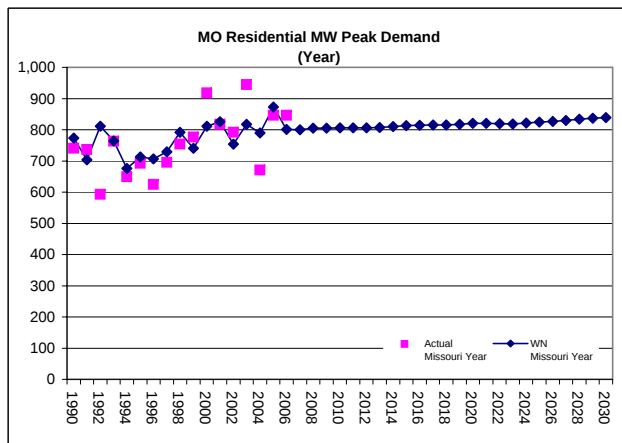
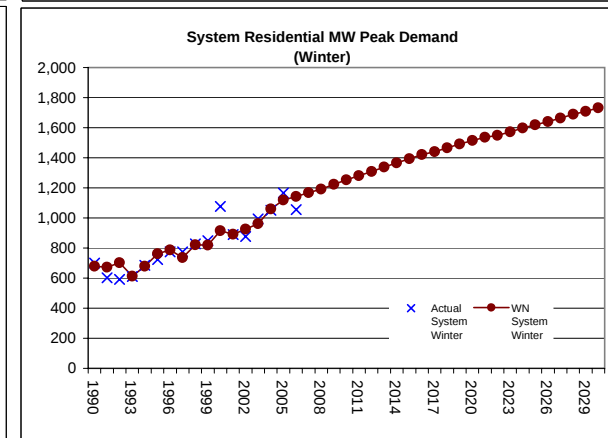
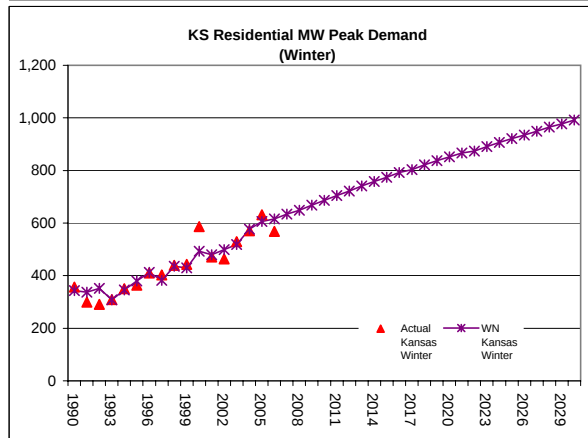
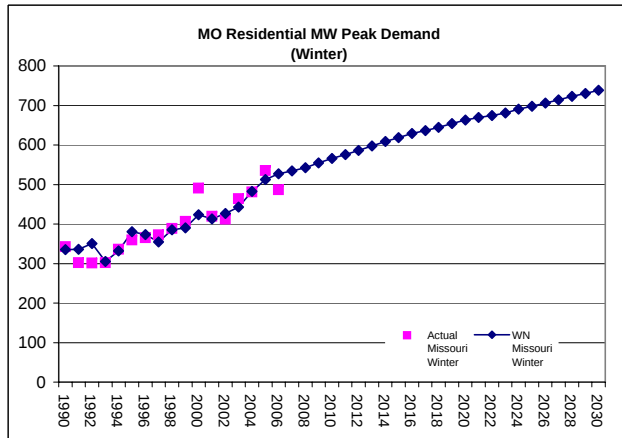
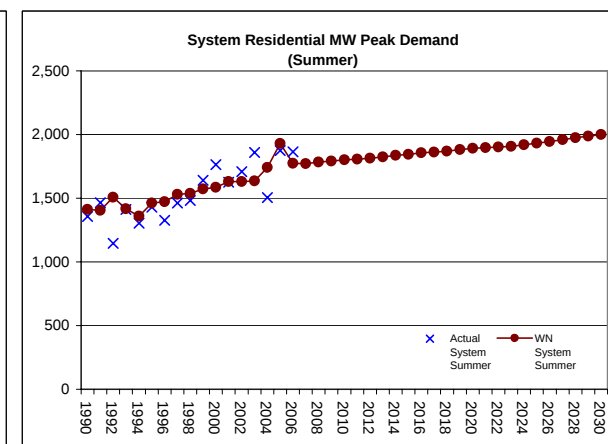
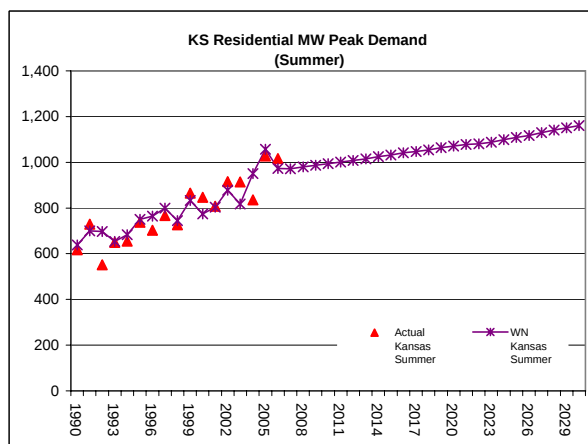
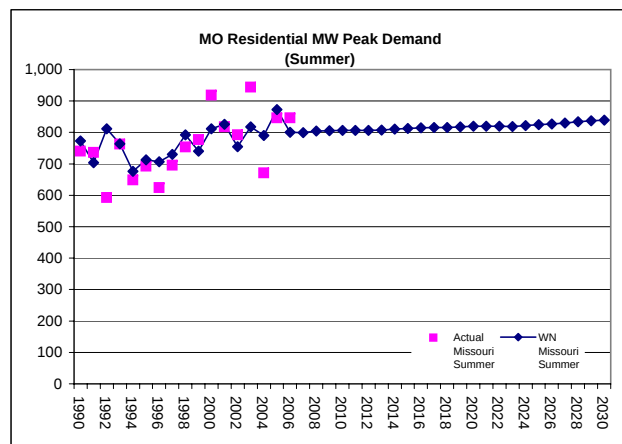
IRP_8B_KCPLPerCust.xls

IRP_8B_KCPL_Peak_EndUse.xls

IRP_8B_KCPL_PeakPerCust_EndUse.xls

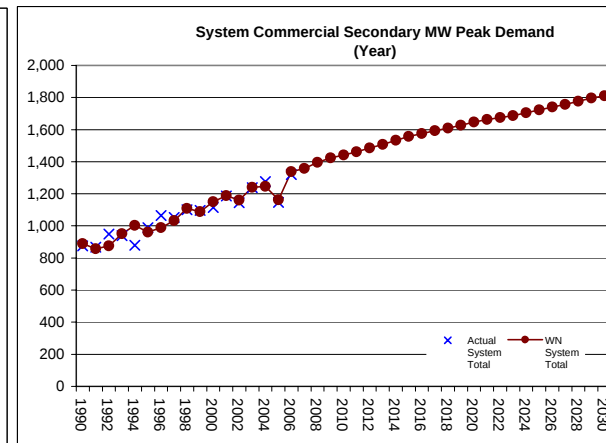
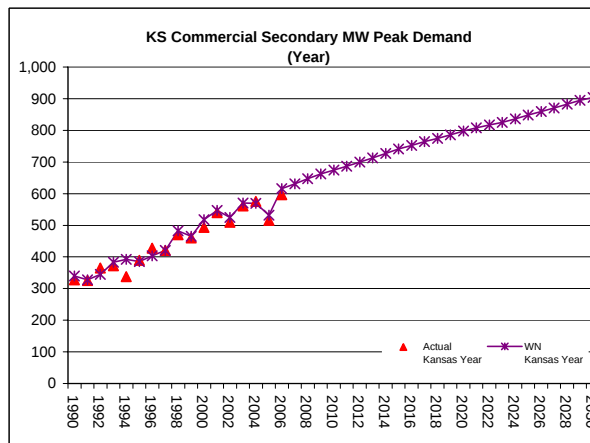
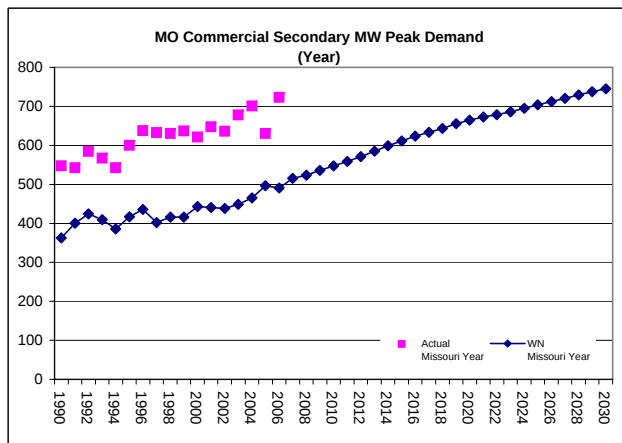
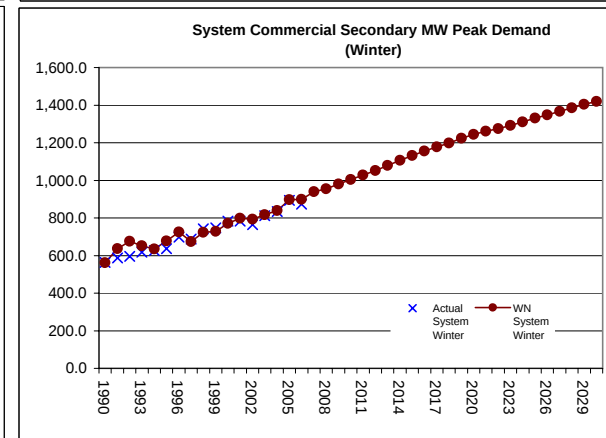
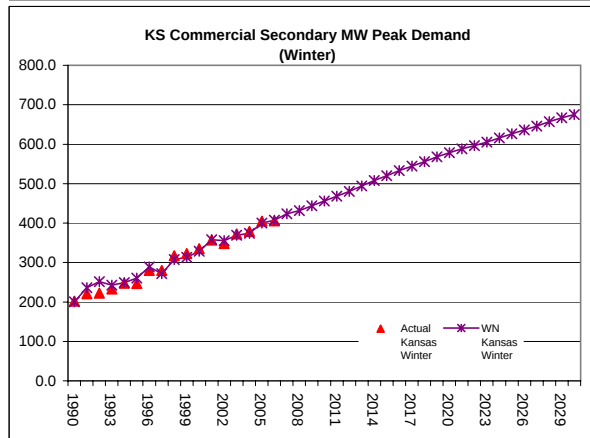
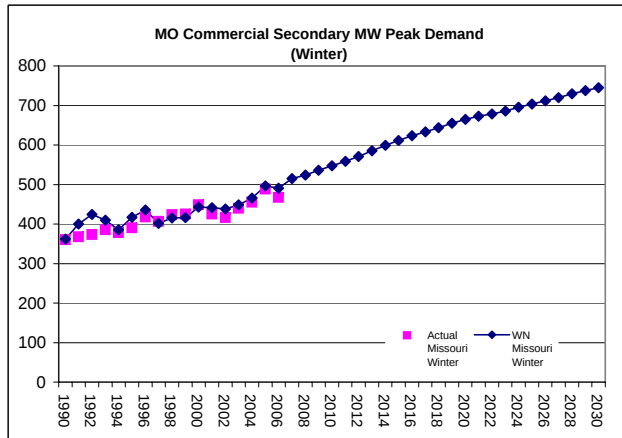
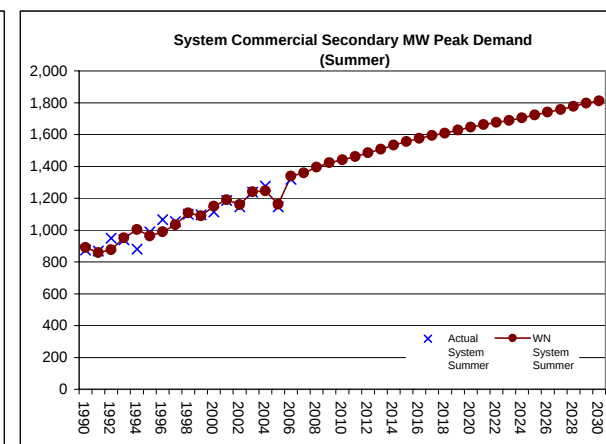
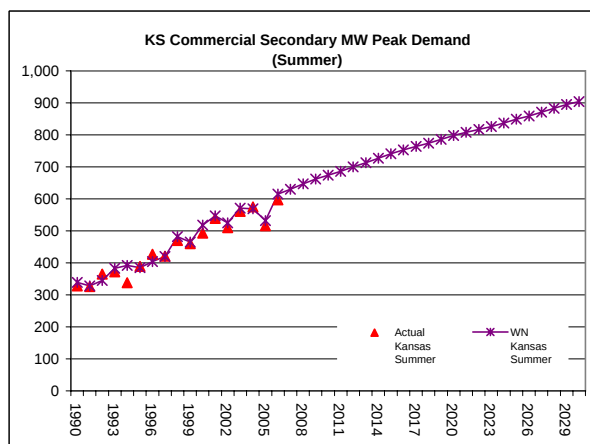
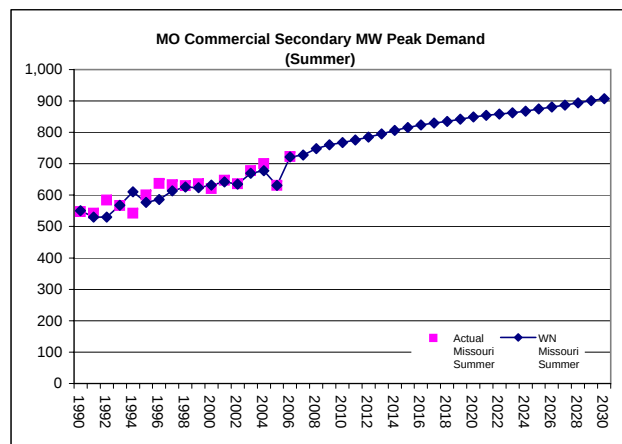
**Plot I-1 Missouri & Kansas Residential MW Peak Demand
(Actual vs. Weather Normalized)**

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1990	740.1	773.1	342.2	335.6	740.1	773.1	616.8	639.0	357.0	343.4	616.8	639.0	1,356.8	1,412.1	699.3	679.0	1,356.8	1,412.1
1991	736.5	703.8	302.2	335.7	736.5	703.8	728.9	700.5	299.4	336.7	728.9	700.5	1,465.4	1,404.3	601.6	672.4	1,465.4	1,404.3
1992	592.8	811.7	301.5	350.5	592.8	811.7	551.7	696.9	290.4	351.3	551.7	696.9	1,144.5	1,508.6	591.9	701.7	1,144.5	1,508.6
1993	762.6	763.7	302.3	305.1	762.6	763.7	649.0	653.9	308.9	307.8	649.0	653.9	1,411.6	1,417.6	611.2	612.9	1,411.6	1,417.6
1994	648.8	676.2	336.0	331.7	648.8	676.2	654.6	683.1	349.9	346.0	654.6	683.1	1,303.4	1,359.3	686.0	677.7	1,303.4	1,359.3
1995	692.8	712.6	359.8	380.9	692.8	712.6	737.8	750.0	363.5	380.1	737.8	750.0	1,430.6	1,462.6	723.3	761.0	1,430.6	1,462.6
1996	624.5	707.2	365.3	373.4	624.5	707.2	703.0	765.1	409.8	413.0	703.0	765.1	1,327.5	1,472.2	775.1	786.4	1,327.5	1,472.2
1997	695.1	729.7	372.6	354.6	695.1	729.7	767.4	799.8	402.7	381.8	767.4	799.8	1,462.4	1,529.5	775.3	736.4	1,462.4	1,529.5
1998	754.0	792.1	388.9	385.4	754.0	792.1	727.2	745.1	439.2	435.8	727.2	745.1	1,481.3	1,537.1	828.1	821.2	1,481.3	1,537.1
1999	776.7	740.8	406.5	390.2	776.7	740.8	865.0	833.2	443.3	429.1	865.0	833.2	1,641.7	1,574.0	849.8	819.3	1,641.7	1,574.0
2000	918.0	811.6	490.5	423.1	918.0	811.6	847.0	774.0	586.8	492.8	847.0	774.0	1,765.1	1,585.6	1,077.3	915.9	1,765.1	1,585.6
2001	817.4	826.0	419.4	412.7	817.4	826.0	807.1	803.9	470.5	479.4	807.1	803.9	1,624.5	1,629.9	889.9	892.0	1,624.5	1,629.9
2002	792.1	754.1	412.5	426.5	792.1	754.1	915.6	877.6	464.0	499.0	915.6	877.6	1,707.7	1,631.7	876.5	925.5	1,707.7	1,631.7
2003	944.2	817.5	463.9	442.6	944.2	817.5	914.5	818.0	529.3	518.4	914.5	818.0	1,858.7	1,635.5	993.3	961.0	1,858.7	1,635.5
2004	670.8	789.9	480.8	482.2	670.8	789.9	835.2	951.3	571.1	576.3	835.2	951.3	1,506.0	1,741.2	1,052.0	1,058.6	1,506.0	1,741.2
2005	846.2	872.6	534.9	512.8	846.2	872.6	1,027.8	1,056.3	631.9	606.7	1,027.8	1,056.3	1,874.1	1,928.9	1,166.8	1,119.4	1,874.1	1,928.9
2006	846.6	800.8	486.5	527.3	846.6	800.8	1,016.9	973.5	568.1	615.3	1,016.9	973.5	1,863.6	1,774.4	1,054.6	1,142.5	1,863.6	1,774.4
2007		799.5		534.5		799.5		971.8		633.9		971.8		1,771.3		1,168.4		1,771.3
2008		805.0		542.4		805.0		980.1		648.8		980.1		1,785.1		1,191.2		1,785.1
2009		805.5		554.4		805.5		987.0		668.0		987.0		1,792.5		1,222.4		1,792.5
2010		806.2		565.8		806.2		994.6		687.0		994.6		1,800.7		1,252.8		1,800.7
2011		806.0		575.9		806.0		1,001.0		704.1		1,001.0		1,807.0		1,280.0		1,807.0
2012		806.5		586.4		806.5		1,007.4		721.2		1,007.4		1,813.9		1,307.7		1,813.9
2013		807.5		597.4		807.5		1,015.6		740.9		1,015.6		1,823.1		1,338.3		1,823.1
2014		810.5		609.0		810.5		1,025.3		757.8		1,025.3		1,835.7		1,366.9		1,835.7
2015		812.9		618.8		812.9		1,032.4		774.1		1,032.4		1,845.3		1,392.8		1,845.3
2016		814.8		629.1		814.8		1,041.6		792.8		1,041.6		1,856.4		1,421.9		1,856.4
2017		815.3		636.3		815.3		1,047.0		803.6		1,047.0		1,862.3		1,439.9		1,862.3
2018		815.6		644.3		815.6		1,053.9		822.0		1,053.9		1,869.5		1,466.3		1,869.5
2019		817.8		654.2		817.8		1,064.1		837.3		1,064.1		1,881.9		1,491.5		1,881.9
2020		820.2		663.0		820.2		1,071.4		852.4		1,071.4		1,891.6		1,515.4		1,891.6
2021		820.2		669.6		820.2		1,077.5		866.0		1,077.5		1,897.7		1,535.6		1,897.7
2022		819.6		674.7		819.6		1,081.4		873.9		1,081.4		1,901.0		1,548.6		1,901.0
2023		818.9		681.0		818.9		1,087.5		891.0		1,087.5		1,906.4		1,572.0		1,906.4
2024		821.4		690.4		821.4		1,099.2		906.5		1,099.2		1,920.5		1,597.0		1,920.5
2025		824.4		698.1		824.4		1,108.2		920.8		1,108.2		1,932.6		1,618.9		1,932.6
2026		827.2		705.8		827.2		1,117.4		934.3		1,117.4		1,944.6		1,640.0		1,944.6
2027		830.1		713.8		830.1		1,129.2		949.7		1,129.2		1,959.3		1,663.5		1,959.3
2028		833.9		723.2		833.9		1,141.6		965.6		1,141.6		1,975.5		1,688.8		1,975.5
2029		836.6		730.7		836.6		1,151.1		977.8		1,151.1		1,987.8		1,708.5		1,987.8
2030		839.3		738.8		839.3		1,160.7		992.3		1,160.7		2,000.0		1,731.1		2,000.0
90-'06	0.8%	0.2%	2.2%	2.9%	0.8%	0.2%	3.2%	2.7%	2.9%	3.7%	3.2%	2.7%	2.0%	1.4%	2.6%	3.3%	2.0%	1.4%
07-'10		0.3%		1.9%		0.3%		0.8%		2.7%		0.8%		0.6%		2.4%		0.6%
10-'15		0.2%		1.8%		0.2%		0.7%		2.4%		0.7%		0.5%		2.1%		0.5%
15-'20		0.2%		1.4%		0.2%		0.7%		1.9%		0.7%		0.5%		1.7%		0.5%
20-'25		0.1%		1.0%		0.1%		0.7%		1.6%		0.7%		0.4%		1.3%		0.4%
25-'30		0.4%		1.1%		0.4%		0.9%		1.5%		0.9%		0.7%		1.3%		0.7%
07-'30		0.2%		1.4%		0.2%		0.8%		2.0%		0.8%		0.5%		1.7%		0.5%



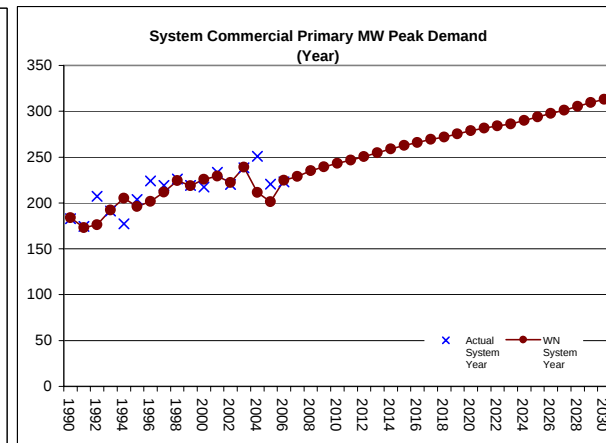
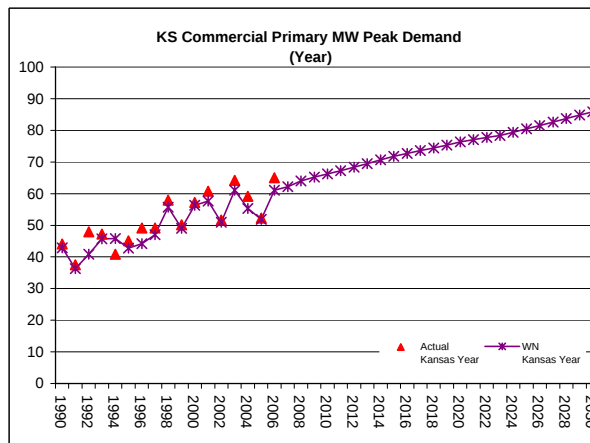
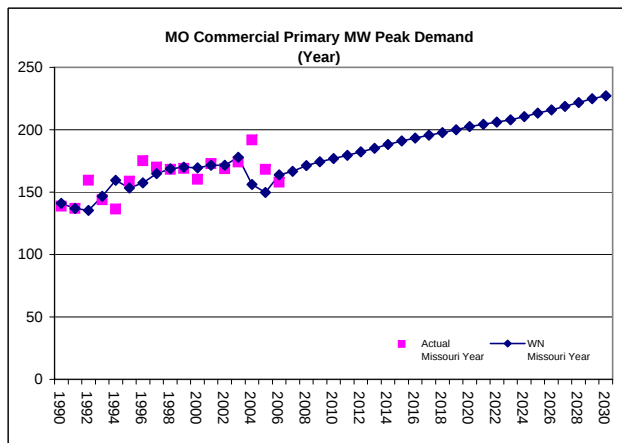
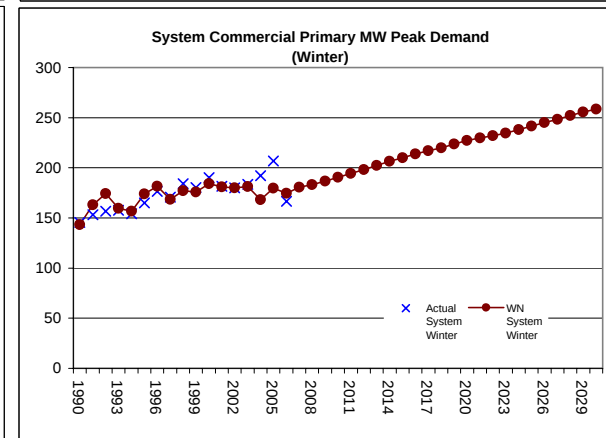
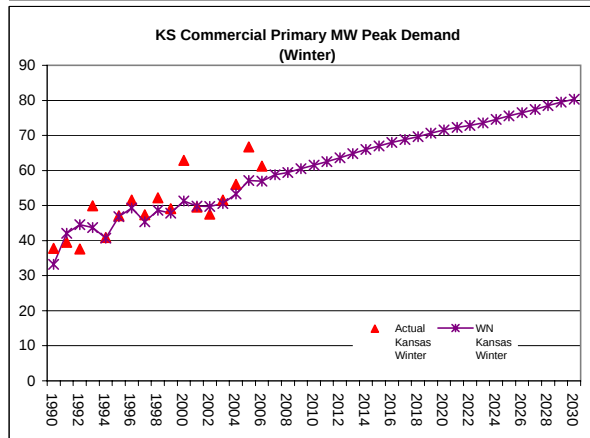
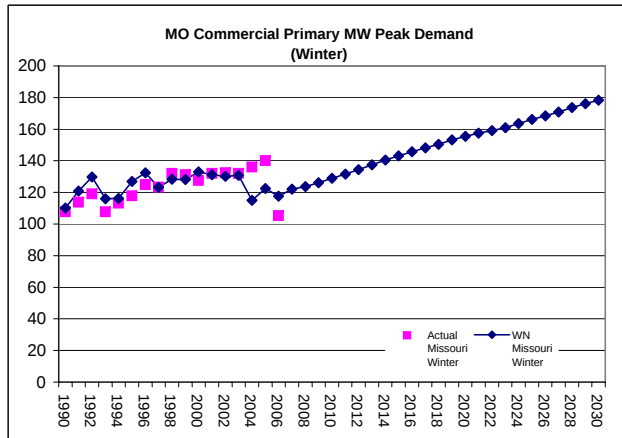
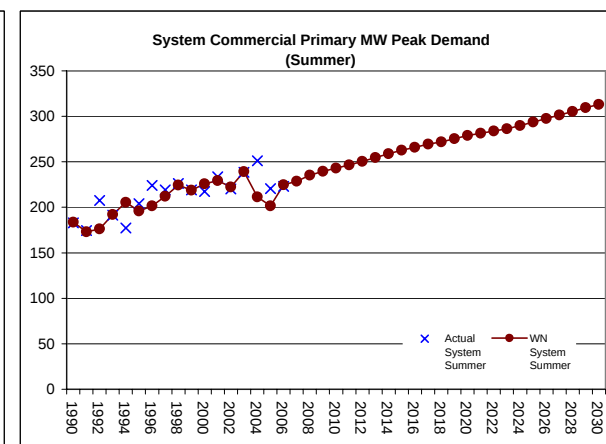
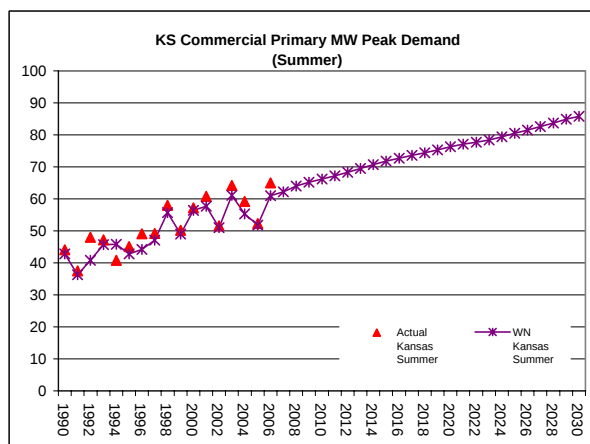
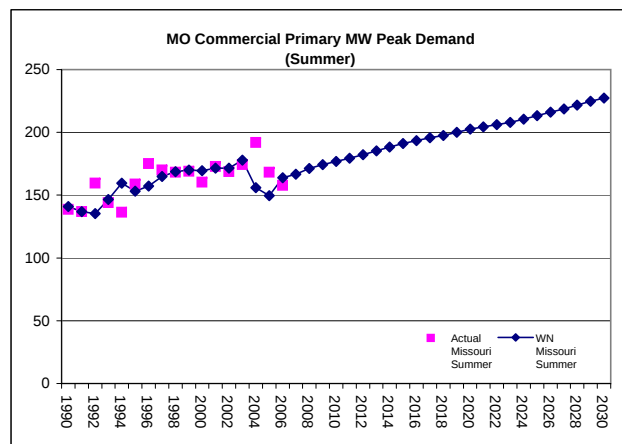
**Plot I-2 Missouri & Kansas Commercial Secondary MW Peak Demand
(Actual vs. Weather Normalized)**

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Total	WN System Total
1990	547.3	550.8	360.6	362.3	547.3	362.3	328.0	339.5	202.1	200.0	328.0	339.5	875.3	890.3	562.7	562.3	875.3	890.3
1991	542.2	529.7	367.7	400.0	542.2	400.0	326.0	327.6	220.3	235.8	326.0	327.6	868.2	857.3	588.0	635.8	868.2	857.3
1992	583.9	530.4	373.1	423.9	583.9	423.9	364.9	345.2	222.7	251.3	364.9	345.2	948.8	875.6	595.8	675.2	948.8	875.6
1993	566.9	567.7	385.2	409.3	566.9	409.3	371.9	383.4	232.6	242.8	371.9	383.4	938.7	951.1	617.8	652.1	938.7	951.1
1994	542.2	611.1	378.2	385.8	542.2	385.8	337.9	392.4	247.4	248.7	337.9	392.4	880.1	1,003.5	625.6	634.6	880.1	1,003.5
1995	600.1	577.0	390.1	416.9	600.1	416.9	389.1	384.9	246.3	260.1	389.1	384.9	989.2	961.9	636.4	677.0	989.2	961.9
1996	637.4	586.1	417.5	435.5	637.4	435.5	427.4	403.6	279.9	289.0	427.4	403.6	1,064.8	989.7	697.4	724.5	1,064.8	989.7
1997	632.7	613.5	406.7	402.0	632.7	402.0	421.0	420.3	280.2	272.1	421.0	420.3	1,053.7	1,033.8	686.9	674.1	1,053.7	1,033.8
1998	630.0	626.1	423.7	415.7	630.0	415.7	470.1	481.9	317.6	307.5	470.1	481.9	1,100.1	1,108.0	741.3	723.2	1,100.1	1,108.0
1999	636.3	623.8	424.7	416.4	636.3	416.4	460.0	464.9	323.3	312.9	460.0	464.9	1,096.3	1,088.7	748.0	729.3	1,096.3	1,088.7
2000	620.8	632.4	448.3	443.0	620.8	443.0	493.4	517.5	335.4	328.5	493.4	517.5	1,114.3	1,149.9	783.8	771.6	1,114.3	1,149.9
2001	647.0	641.9	425.2	440.9	647.0	440.9	539.4	547.4	357.1	358.1	539.4	547.4	1,186.5	1,189.2	782.4	799.1	1,186.5	1,189.2
2002	635.6	635.5	416.3	437.9	635.6	437.9	509.8	525.1	348.3	355.6	509.8	525.1	1,145.4	1,160.6	764.7	793.5	1,145.4	1,160.6
2003	677.7	669.6	439.3	448.5	677.7	448.5	560.7	570.7	372.3	369.0	560.7	570.7	1,238.4	1,240.4	811.6	817.5	1,238.4	1,240.4
2004	700.5	677.5	455.4	465.6	700.5	465.6	575.3	569.5	378.8	373.9	575.3	569.5	1,275.8	1,247.0	834.2	839.5	1,275.8	1,247.0
2005	630.5	630.6	488.1	496.5	630.5	496.5	515.5	531.6	405.0	399.7	515.5	531.6	1,146.0	1,162.2	893.1	896.2	1,146.0	1,162.2
2006	722.5	722.2	467.6	491.0	722.5	491.0	596.9	615.5	405.6	407.3	596.9	615.5	1,319.3	1,337.7	873.1	898.4	1,319.3	1,337.7
2007		728.3		514.9		514.9		630.5		423.9		630.5		1,358.8		938.7		1,358.8
2008		748.5		523.6		523.6		647.1		431.9		647.1		1,395.6		955.6		1,395.6
2009		760.7		535.9		535.9		662.4		444.2		662.4		1,423.1		980.1		1,423.1
2010		767.8		547.4		547.4		674.3		456.4		674.3		1,442.1		1,003.7		1,442.1
2011		775.3		559.0		559.0		686.5		468.4		686.5		1,461.7		1,027.4		1,461.7
2012		784.8		571.2		571.2		699.8		480.5		699.8		1,484.6		1,051.7		1,484.6
2013		794.9		585.1		585.1		712.9		493.9		712.9		1,507.9		1,079.1		1,507.9
2014		806.0		599.3		599.3		727.2		507.8		727.2		1,533.3		1,107.1		1,533.3
2015		816.0		611.4		611.4		740.8		520.1		740.8		1,556.7		1,131.5		1,556.7
2016		823.3		623.3		623.3		752.7		532.9		752.7		1,576.0		1,156.3		1,576.0
2017		829.8		633.3		633.3		764.2		544.2		764.2		1,594.0		1,177.5		1,594.0
2018		834.7		643.4		643.4		774.2		555.4		774.2		1,609.0		1,198.8		1,609.0
2019		841.9		655.2		655.2		786.1		568.0		786.1		1,628.0		1,223.2		1,628.0
2020		849.3		664.9		664.9		797.8		578.9		797.8		1,647.1		1,243.8		1,647.1
2021		854.7		673.0		673.0		807.9		588.4		807.9		1,662.6		1,261.4		1,662.6
2022		858.7		678.9		678.9		817.1		596.3		817.1		1,675.8		1,275.2		1,675.8
2023		862.0		685.9		685.9		825.5		605.2		825.5		1,687.5		1,291.1		1,687.5
2024		867.8		695.2		695.2		836.6		616.2		836.6		1,704.4		1,311.4		1,704.4
2025		874.9		703.9		703.9		848.7		626.4		848.7		1,723.6		1,330.3		1,723.6
2026		880.7		711.9		711.9		859.5		636.3		859.5		1,740.1		1,348.2		1,740.1
2027		886.8		720.2		720.2		870.7		646.2		870.7		1,757.5		1,366.4		1,757.5
2028		893.9		729.4		729.4		882.7		656.9		882.7		1,776.6		1,386.3		1,776.6
2029		901.4		738.0		738.0		894.7		666.7		894.7		1,796.1		1,404.7		1,796.1
2030		906.8		745.3		745.3		904.3		675.1		904.3		1,811.1		1,420.4		1,811.1
90-'06	1.8%	1.7%	1.6%	1.9%	1.8%	1.9%	3.8%	3.8%	4.5%	4.5%	3.8%	3.8%	2.6%	2.6%	2.8%	3.0%	2.6%	2.6%
07-'10		1.8%		2.1%		2.1%		2.3%		2.5%		2.3%		2.0%		2.3%		2.0%
10-'15		1.2%		2.2%		2.2%		1.9%		2.6%		1.9%		1.5%		2.4%		1.5%
15-'20		0.8%		1.7%		1.7%		1.5%		2.2%		1.5%		1.1%		1.9%		1.1%
20-'25		0.6%		1.1%		1.1%		1.2%		1.6%		1.2%		0.9%		1.4%		0.9%
25-'30		0.7%		1.1%		1.1%		1.3%		1.5%		1.3%		1.0%		1.3%		1.0%
07-'30		1.0%		1.6%		1.6%		1.6%		2.0%		1.6%		1.3%		1.8%		1.3%



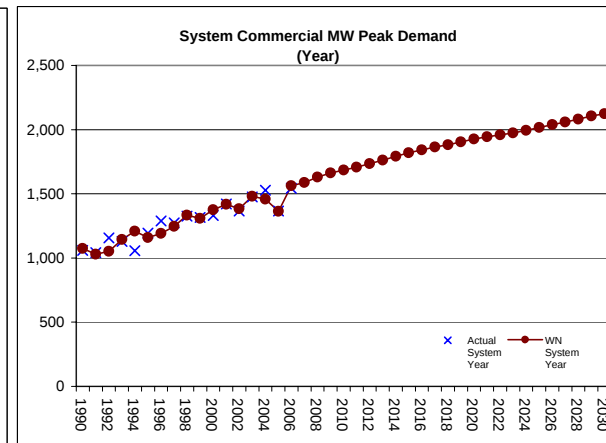
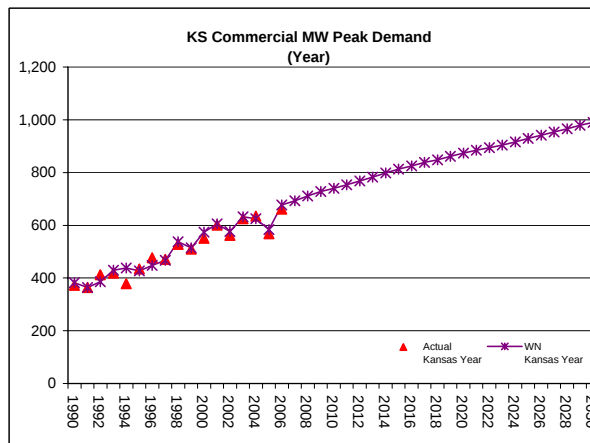
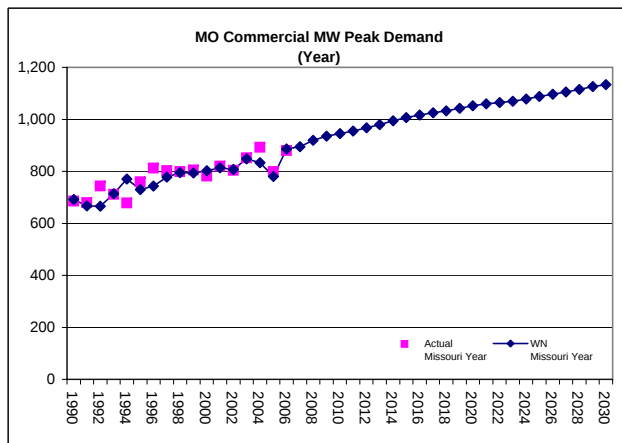
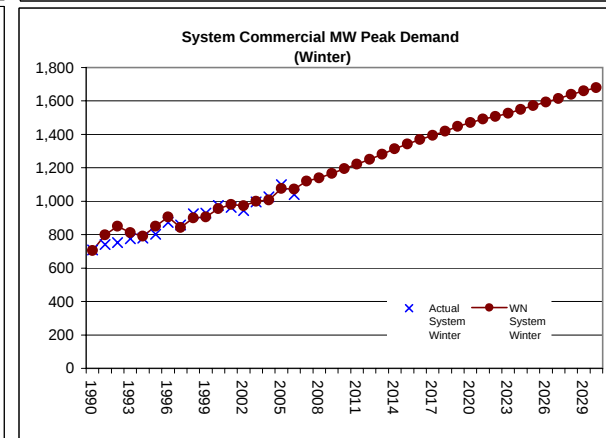
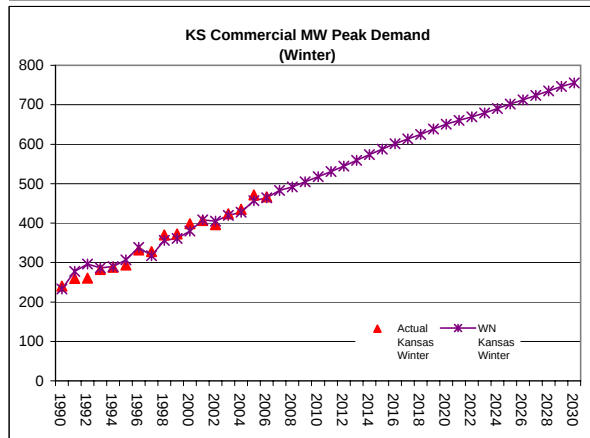
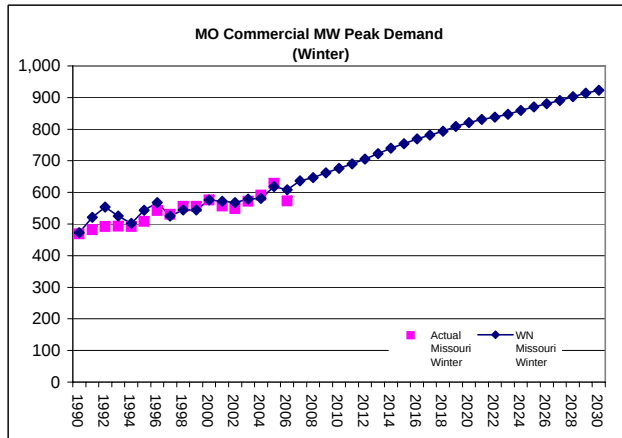
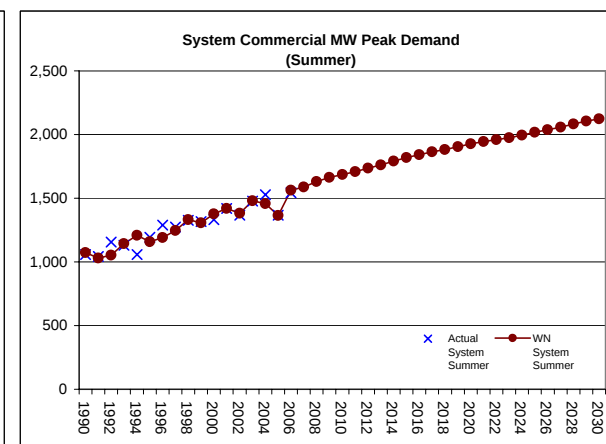
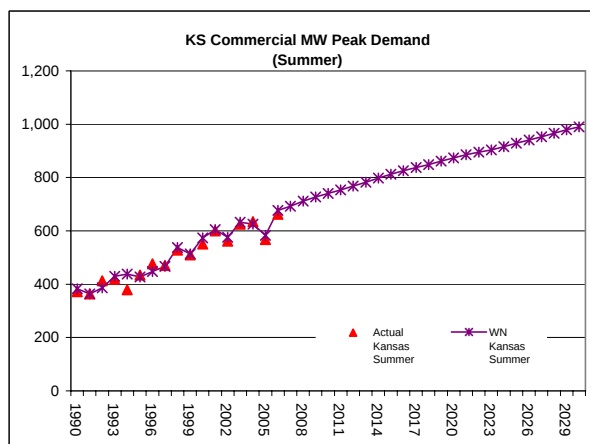
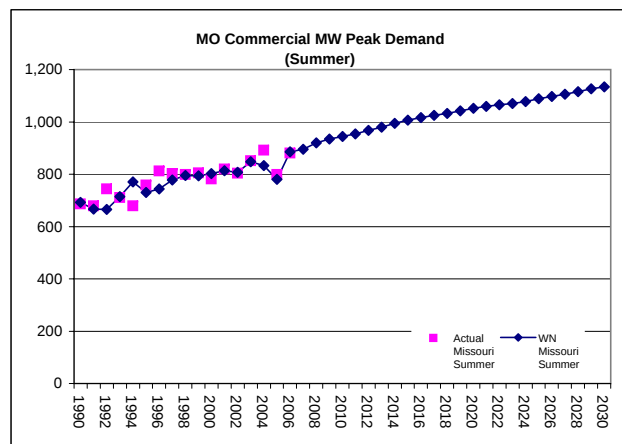
Plot I-3 Missouri & Kansas Commercial Primary MW Peak Demand
(Actual vs. Weather Normalized)

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1990	138.7	141.0	107.8	110.1	138.7	141.0	44.1	42.8	37.8	33.2	44.1	42.8	182.9	183.8	145.6	143.3	182.9	183.8
1991	136.9	136.9	113.7	120.9	136.9	136.9	37.5	36.3	39.5	42.1	37.5	36.3	174.4	173.2	153.2	163.0	174.4	173.2
1992	159.4	135.3	119.0	129.7	159.4	135.3	48.0	40.8	37.6	44.5	48.0	40.8	207.4	176.1	156.7	174.2	207.4	176.1
1993	144.0	146.5	107.7	115.9	144.0	146.5	47.2	45.7	49.9	43.7	47.2	45.7	191.2	192.2	157.7	159.6	191.2	192.2
1994	136.4	159.5	113.2	116.2	136.4	159.5	40.8	45.8	40.9	40.7	40.8	45.8	177.2	205.4	154.1	156.9	177.2	205.4
1995	158.8	153.2	117.9	127.0	158.8	153.2	45.1	42.8	47.1	46.8	45.1	42.8	203.9	196.0	165.0	173.8	203.9	196.0
1996	175.0	157.3	124.8	132.4	175.0	157.3	49.1	44.2	51.5	49.3	49.1	44.2	224.2	201.5	176.4	181.7	224.2	201.5
1997	170.1	164.9	123.3	123.3	170.1	164.9	49.2	47.1	47.3	45.3	49.2	47.1	219.3	212.0	170.7	168.6	219.3	212.0
1998	168.2	168.8	132.1	128.3	168.2	168.8	58.0	55.7	52.2	48.7	58.0	55.7	226.2	224.5	184.2	177.0	226.2	224.5
1999	168.9	169.9	131.2	128.1	168.9	169.9	50.2	49.0	49.1	47.8	50.2	49.0	219.1	218.9	180.3	175.9	219.1	218.9
2000	160.2	169.6	127.4	133.0	160.2	169.6	57.2	56.4	62.9	51.3	57.2	56.4	217.5	225.9	190.3	184.2	217.5	225.9
2001	172.8	171.6	131.9	131.2	172.8	171.6	60.8	57.7	49.6	49.8	60.8	57.7	233.6	229.3	181.5	181.1	233.6	229.3
2002	168.6	171.4	132.4	130.2	168.6	171.4	51.6	51.0	47.6	49.7	51.6	51.0	220.2	222.4	180.0	179.9	220.2	222.4
2003	174.2	178.0	132.0	130.8	174.2	178.0	64.2	61.1	51.6	50.6	64.2	61.1	238.4	239.0	183.6	181.4	238.4	239.0
2004	191.8	156.0	136.1	114.9	191.8	156.0	59.2	55.3	56.1	53.3	59.2	55.3	251.0	211.3	192.1	168.2	251.0	211.3
2005	168.1	149.7	140.0	122.4	168.1	149.7	52.3	51.8	66.7	57.2	52.3	51.8	220.4	201.5	206.7	179.5	220.4	201.5
2006	157.9	163.8	105.3	117.6	157.9	163.8	65.0	61.0	61.2	56.9	65.0	61.0	222.9	224.8	166.6	174.5	222.9	224.8
2007		166.6		122.0		166.6		62.2		58.8		62.2		228.8		180.8		228.8
2008		171.3		123.6		171.3		64.0		59.5		64.0		235.3		183.1		235.3
2009		174.3		126.2		174.3		65.2		60.5		65.2		239.5		186.7		239.5
2010		176.9		128.9		176.9		66.2		61.5		66.2		243.1		190.5		243.1
2011		179.4		131.6		179.4		67.2		62.6		67.2		246.6		194.2		246.6
2012		182.3		134.4		182.3		68.3		63.6		68.3		250.6		198.0		250.6
2013		185.2		137.4		185.2		69.5		64.8		69.5		254.6		202.2		254.6
2014		188.3		140.5		188.3		70.7		66.0		70.7		258.9		206.5		258.9
2015		191.0		143.1		191.0		71.8		67.0		71.8		262.8		210.1		262.8
2016		193.3		145.8		193.3		72.7		68.0		72.7		266.0		213.8		266.0
2017		195.7		148.2		195.7		73.6		68.8		73.6		269.3		217.0		269.3
2018		197.6		150.4		197.6		74.4		69.6		74.4		272.0		220.0		272.0
2019		200.0		153.2		200.0		75.3		70.7		75.3		275.3		223.9		275.3
2020		202.5		155.6		202.5		76.3		71.5		76.3		278.9		227.1		278.9
2021		204.5		157.5		204.5		77.1		72.3		77.1		281.6		229.8		281.6
2022		206.2		159.1		206.2		77.7		72.8		77.7		284.0		231.9		284.0
2023		207.9		161.0		207.9		78.4		73.5		78.4		286.3		234.5		286.3
2024		210.4		163.6		210.4		79.4		74.6		79.4		289.8		238.2		289.8
2025		213.4		166.1		213.4		80.5		75.5		80.5		293.9		241.6		293.9
2026		216.0		168.5		216.0		81.5		76.5		81.5		297.5		245.0		297.5
2027		218.7		170.9		218.7		82.6		77.4		82.6		301.3		248.4		301.3
2028		221.7		173.6		221.7		83.7		78.5		83.7		305.4		252.1		305.4
2029		224.8		176.1		224.8		84.9		79.5		84.9		309.7		255.6		309.7
2030		227.3		178.3		227.3		85.8		80.3		85.8		313.0		258.6		313.0
90-'06	0.8%	0.9%	-0.1%	0.4%	0.8%	0.9%	2.5%	2.2%	3.1%	3.4%	2.5%	2.2%	1.2%	1.3%	0.8%	1.2%	1.2%	1.3%
07-'10		2.0%		1.9%		2.0%		2.1%		1.5%		2.1%		2.0%		1.8%		2.0%
10-'15		1.6%		2.1%		1.6%		1.6%		1.7%		1.6%		1.6%		2.0%		1.6%
15-'20		1.2%		1.7%		1.2%		1.2%		1.3%		1.2%		1.2%		1.6%		1.2%
20-'25		1.0%		1.3%		1.0%		1.1%		1.1%		1.1%		1.1%		1.2%		1.1%
25-'30		1.3%		1.4%		1.3%		1.3%		1.2%		1.3%		1.3%		1.4%		1.3%
07-'30		1.4%		1.7%		1.4%		1.4%		1.4%		1.4%		1.4%		1.6%		1.4%



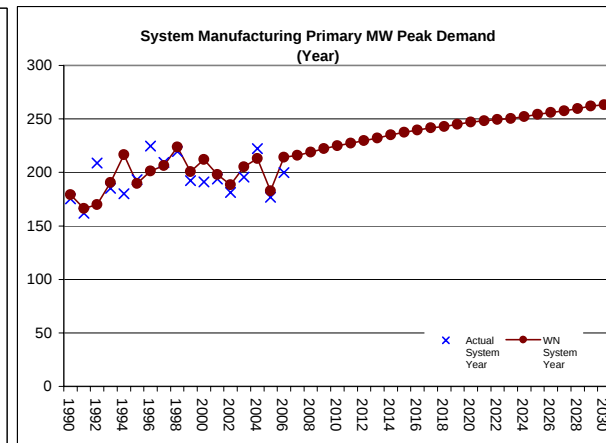
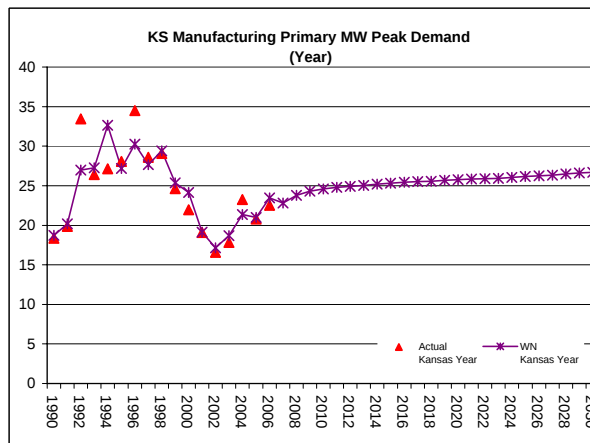
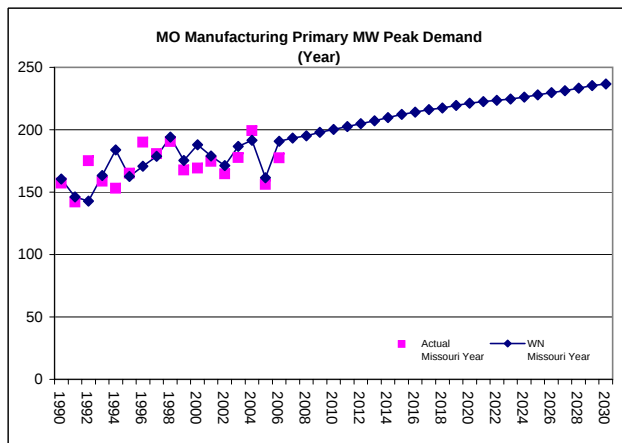
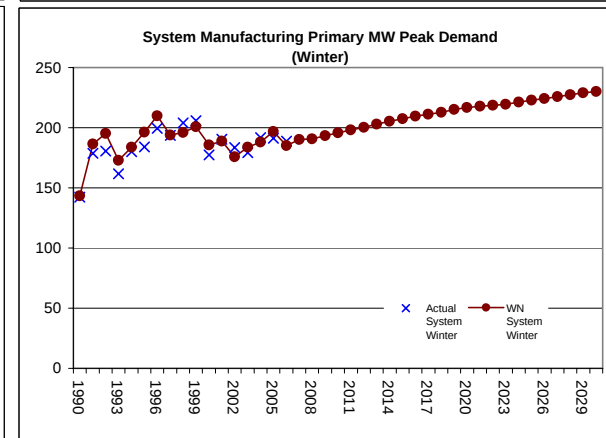
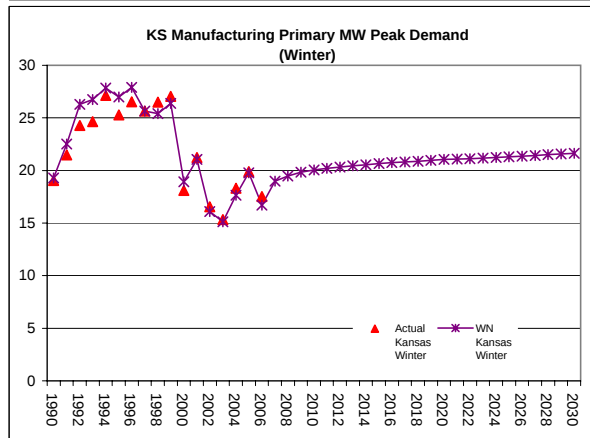
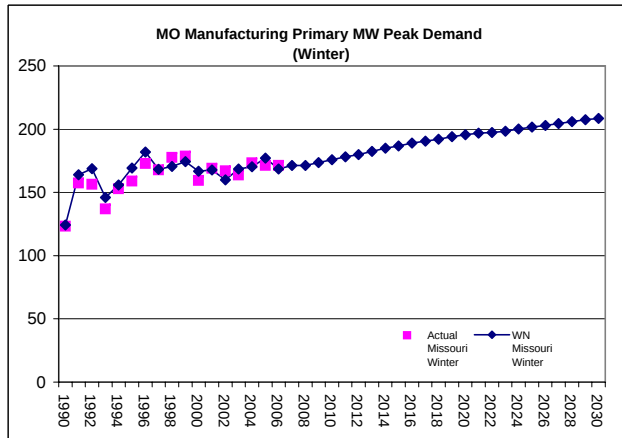
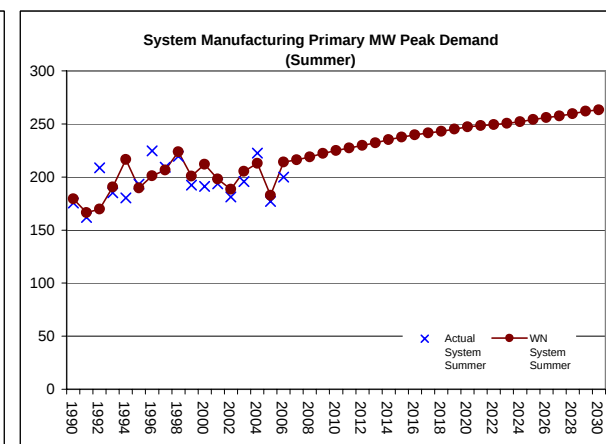
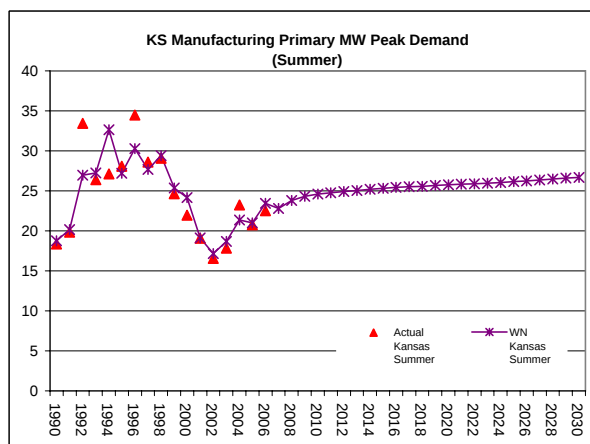
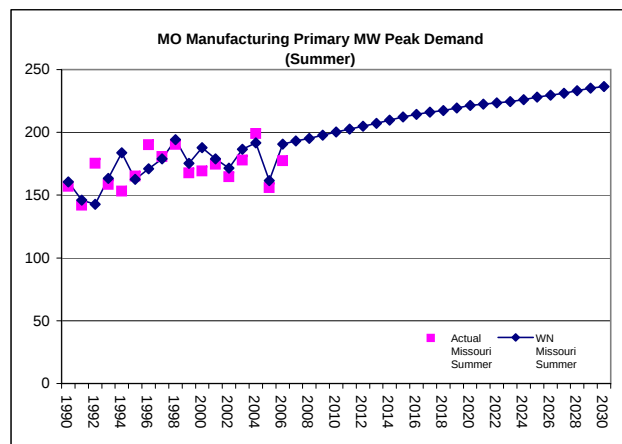
**Plot I-4 Missouri & Kansas Commercial MW Peak Demand
(Actual vs. Weather Normalized)**

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1990	686.0	691.8	468.4	472.4	686.0	691.8	372.1	382.3	239.9	233.2	372.1	382.3	1,058.1	1,074.1	708.3	705.6	1,058.1	1,074.1
1991	679.1	666.6	481.4	520.9	679.1	666.6	363.5	363.9	259.8	277.9	363.5	363.9	1,042.6	1,030.5	741.2	798.8	1,042.6	1,030.5
1992	743.4	665.7	492.2	553.6	743.4	665.7	412.9	386.0	260.3	295.8	412.9	386.0	1,156.2	1,051.7	752.5	849.4	1,156.2	1,051.7
1993	710.8	714.2	492.9	525.3	710.8	714.2	419.1	429.1	282.5	286.5	419.1	429.1	1,129.9	1,143.4	775.4	811.7	1,129.9	1,143.4
1994	678.6	770.6	491.4	502.0	678.6	770.6	378.7	438.3	288.3	289.4	378.7	438.3	1,057.3	1,208.9	779.7	791.4	1,057.3	1,208.9
1995	758.9	730.3	508.0	543.9	758.9	730.3	434.2	427.7	293.4	306.9	434.2	427.7	1,193.1	1,157.9	801.5	850.9	1,193.1	1,157.9
1996	812.4	743.5	542.3	567.9	812.4	743.5	476.6	447.8	331.5	338.3	476.6	447.8	1,288.9	1,191.3	873.8	906.2	1,288.9	1,191.3
1997	802.8	778.4	530.0	525.3	802.8	778.4	470.2	467.4	327.5	317.5	470.2	467.4	1,273.0	1,245.8	857.6	842.7	1,273.0	1,245.8
1998	798.2	794.9	555.8	544.1	798.2	794.9	528.1	537.7	369.8	356.2	528.1	537.7	1,326.3	1,332.5	925.6	900.2	1,326.3	1,332.5
1999	805.2	793.7	555.9	544.5	805.2	793.7	510.1	513.9	372.4	360.7	510.1	513.9	1,315.4	1,307.6	928.3	905.2	1,315.4	1,307.6
2000	781.1	802.0	575.8	576.0	781.1	802.0	550.7	573.9	398.3	379.8	550.7	573.9	1,331.7	1,375.8	974.1	955.8	1,331.7	1,375.8
2001	819.8	813.5	557.1	572.2	819.8	813.5	600.2	605.0	406.7	407.9	600.2	605.0	1,420.0	1,418.5	963.8	980.1	1,420.0	1,418.5
2002	804.2	806.9	548.7	568.1	804.2	806.9	561.5	576.0	395.9	405.3	561.5	576.0	1,365.7	1,383.0	944.6	973.4	1,365.7	1,383.0
2003	851.9	847.6	571.4	579.3	851.9	847.6	624.9	631.8	423.9	419.6	624.9	631.8	1,476.7	1,479.4	995.2	998.9	1,476.7	1,479.4
2004	892.3	833.5	591.4	580.5	892.3	833.5	634.5	624.8	434.9	427.2	634.5	624.8	1,526.8	1,458.3	1,026.3	1,007.7	1,526.8	1,458.3
2005	798.7	780.2	628.1	618.9	798.7	780.2	567.8	583.4	471.8	456.9	567.8	583.4	1,366.4	1,363.7	1,099.9	1,075.7	1,366.4	1,363.7
2006	880.3	886.0	572.9	608.6	880.3	886.0	661.9	676.5	466.8	464.3	661.9	676.5	1,542.2	1,562.5	1,039.7	1,072.9	1,542.2	1,562.5
2007		894.9		636.9		894.9		692.7		482.7		692.7		1,587.6		1,119.5		1,587.6
2008		919.7		647.2		919.7		711.1		491.4		711.1		1,630.8		1,138.6		1,630.8
2009		935.1		662.1		935.1		727.5		504.7		727.5		1,662.6		1,166.8		1,662.6
2010		944.7		676.3		944.7		740.5		517.9		740.5		1,685.2		1,194.2		1,685.2
2011		954.7		690.6		954.7		753.7		531.0		753.7		1,708.3		1,221.6		1,708.3
2012		967.1		705.6		967.1		768.1		544.2		768.1		1,735.2		1,249.7		1,735.2
2013		980.1		722.5		980.1		782.4		558.7		782.4		1,762.5		1,281.3		1,762.5
2014		994.3		739.8		994.3		797.9		573.8		797.9		1,792.2		1,313.6		1,792.2
2015		1,007.0		754.5		1,007.0		812.5		587.1		812.5		1,819.5		1,341.6		1,819.5
2016		1,016.7		769.2		1,016.7		825.3		600.9		825.3		1,842.0		1,370.1		1,842.0
2017		1,025.5		781.5		1,025.5		837.9		613.0		837.9		1,863.3		1,394.5		1,863.3
2018		1,032.4		793.8		1,032.4		848.6		625.0		848.6		1,881.0		1,418.8		1,881.0
2019		1,041.9		808.4		1,041.9		861.4		638.7		861.4		1,903.3		1,447.1		1,903.3
2020		1,051.8		820.5		1,051.8		874.1		650.4		874.1		1,926.0		1,470.9		1,926.0
2021		1,059.1		830.5		1,059.1		885.0		660.7		885.0		1,944.1		1,491.2		1,944.1
2022		1,064.9		838.0		1,064.9		894.8		669.1		894.8		1,959.8		1,507.1		1,959.8
2023		1,069.9		846.9		1,069.9		904.0		678.8		904.0		1,973.8		1,525.6		1,973.8
2024		1,078.3		858.8		1,078.3		916.0		690.7		916.0		1,994.3		1,549.5		1,994.3
2025		1,088.2		870.0		1,088.2		929.2		702.0		929.2		2,017.4		1,572.0		2,017.4
2026		1,096.7		880.5		1,096.7		941.0		712.7		941.0		2,037.7		1,593.2		2,037.7
2027		1,105.5		891.1		1,105.5		953.3		723.7		953.3		2,058.8		1,614.8		2,058.8
2028		1,115.6		903.1		1,115.6		966.4		735.4		966.4		2,082.0		1,638.4		2,082.0
2029		1,126.2		914.1		1,126.2		979.6		746.1		979.6		2,105.8		1,660.3		2,105.8
2030		1,134.0		923.5		1,134.0		990.1		755.4		990.1		2,124.1		1,678.9		2,124.1
90-'06	1.6%	1.6%	1.3%	1.6%	1.6%	1.6%	3.7%	3.6%	4.2%	4.4%	3.7%	3.6%	2.4%	2.4%	2.4%	2.7%	2.4%	2.4%
07-'10		1.8%		2.0%		1.8%		2.2%		2.4%		2.2%		2.0%		2.2%		2.0%
10-'15		1.3%		2.2%		1.3%		1.9%		2.5%		1.9%		1.5%		2.4%		1.5%
15-'20		0.9%		1.7%		0.9%		1.5%		2.1%		1.5%		1.1%		1.9%		1.1%
20-'25		0.7%		1.2%		0.7%		1.2%		1.5%		1.2%		0.9%		1.3%		0.9%
25-'30		0.8%		1.2%		0.8%		1.3%		1.5%		1.3%		1.0%		1.3%		1.0%
07-'30		1.0%		1.6%		1.0%		1.6%		2.0%		1.6%		1.3%		1.8%		1.3%



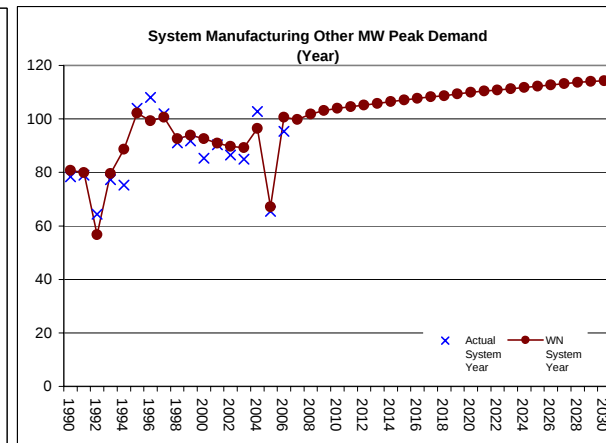
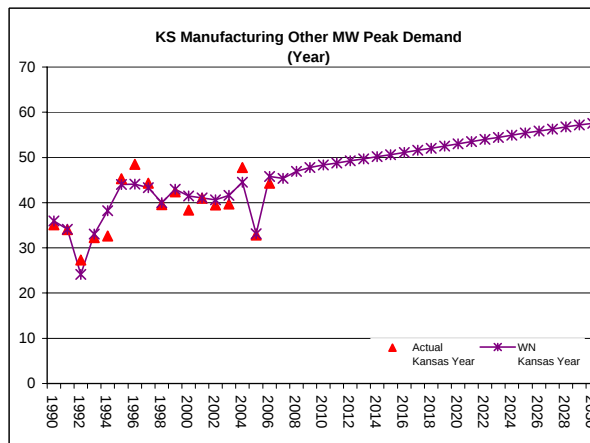
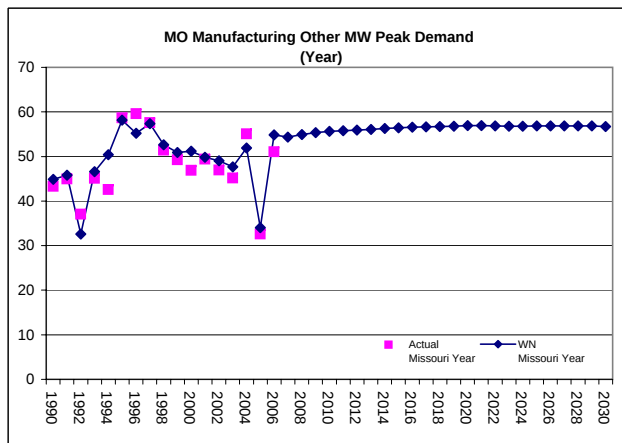
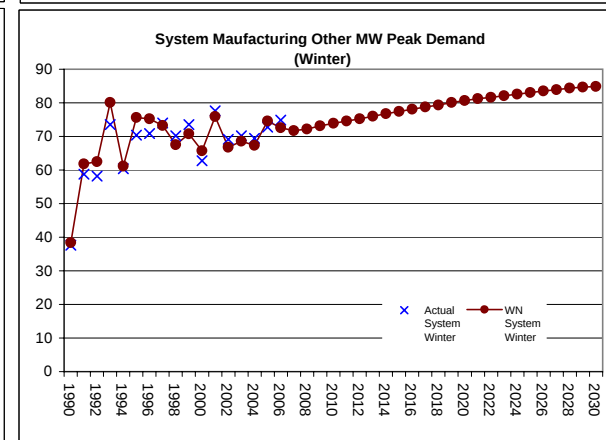
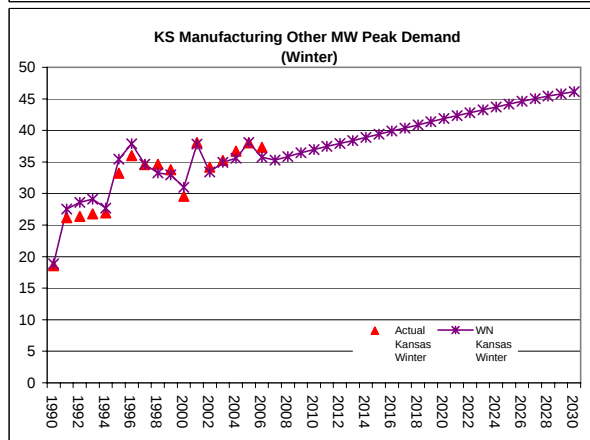
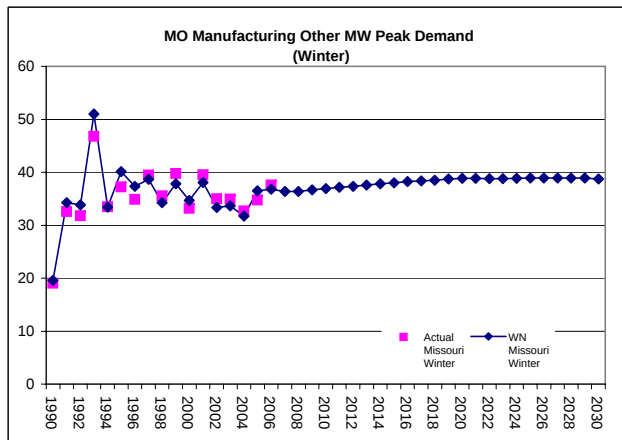
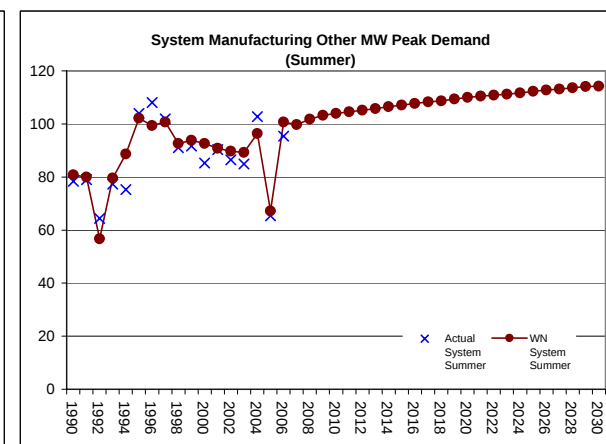
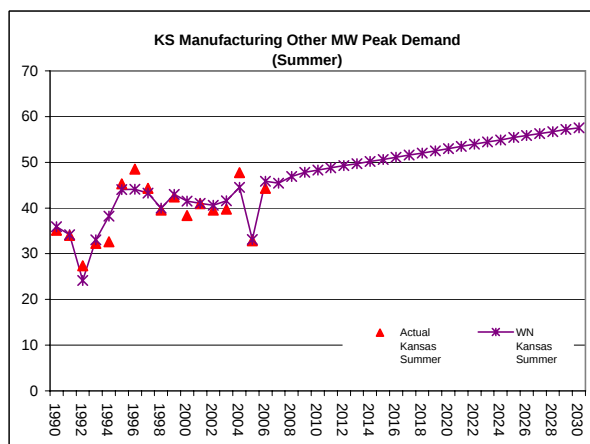
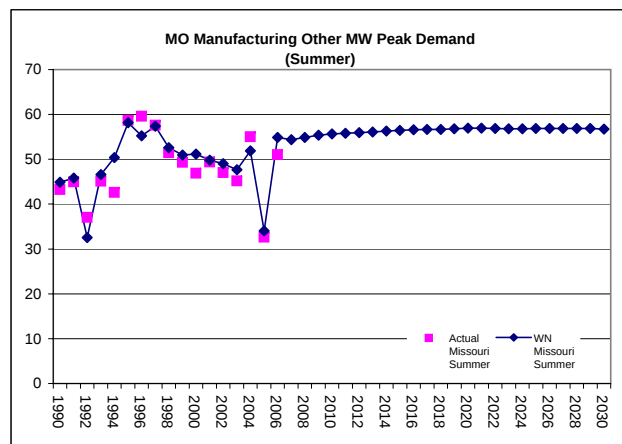
**Plot I-5 Missouri & Kansas Manufacturing Primary MW Peak Demand
(Actual vs. Weather Normalized)**

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1990	157.1	160.5	123.1	124.1	157.1	160.5	18.3	18.7	19.1	19.3	18.3	18.7	175.4	179.3	142.2	143.4	175.4	179.3
1991	141.9	146.1	157.4	163.9	141.9	146.1	19.9	20.2	21.5	22.5	19.9	20.2	161.8	166.3	178.8	186.4	161.8	166.3
1992	175.2	142.8	156.4	168.8	175.2	142.8	33.4	27.0	24.3	26.3	33.4	27.0	208.7	169.8	180.7	195.1	208.7	169.8
1993	158.6	163.3	137.0	146.1	158.6	163.3	26.4	27.2	24.6	26.7	26.4	27.2	185.0	190.5	161.7	172.8	185.0	190.5
1994	153.0	183.8	152.9	155.8	153.0	183.8	27.1	32.7	27.1	27.9	27.1	32.7	180.2	216.5	180.1	183.7	180.2	216.5
1995	165.2	162.6	158.8	169.2	165.2	162.6	28.1	27.2	25.3	27.0	28.1	27.2	193.3	189.7	184.1	196.2	193.3	189.7
1996	190.0	170.9	172.8	181.9	190.0	170.9	34.5	30.3	26.5	27.9	34.5	30.3	224.5	201.2	199.3	209.8	224.5	201.2
1997	180.7	178.8	167.9	168.3	180.7	178.8	28.6	27.7	25.7	25.7	28.6	27.7	209.3	206.5	193.5	193.9	209.3	206.5
1998	190.5	194.2	177.5	170.5	190.5	194.2	29.1	29.4	26.5	25.4	29.1	29.4	219.5	223.6	204.0	195.9	219.5	223.6
1999	167.8	175.4	178.7	174.4	167.8	175.4	24.6	25.3	27.1	26.4	24.6	25.3	192.4	200.8	205.8	200.7	192.4	200.8
2000	169.2	187.8	159.3	166.8	169.2	187.8	21.9	24.1	18.1	18.9	21.9	24.1	191.1	212.0	177.4	185.8	191.1	212.0
2001	174.6	178.9	169.1	167.8	174.6	178.9	19.1	19.1	21.2	21.1	19.1	19.1	193.7	198.1	190.4	188.8	193.7	198.1
2002	164.6	171.4	167.1	159.8	164.6	171.4	16.6	17.1	16.5	16.1	16.6	17.1	181.1	188.5	183.6	175.9	181.1	188.5
2003	177.8	186.6	163.8	168.6	177.8	186.6	17.8	18.7	15.3	15.1	17.8	18.7	195.6	205.3	179.2	183.7	195.6	205.3
2004	199.1	191.6	173.4	170.3	199.1	191.6	23.2	21.4	18.3	17.6	23.2	21.4	222.4	213.0	191.7	188.0	222.4	213.0
2005	156.1	161.6	171.2	177.1	156.1	161.6	20.8	21.0	19.9	19.8	20.8	21.0	176.8	182.6	191.1	196.8	176.8	182.6
2006	177.3	190.7	171.4	168.5	177.3	190.7	22.5	23.5	17.5	16.7	22.5	23.5	199.9	214.1	188.9	185.2	199.9	214.1
2007		193.3		171.2		193.3		22.8			19.0	22.8		216.1			190.2	216.1
2008		195.2		171.2		195.2		23.8			19.5	23.8		219.0			190.7	219.0
2009		197.9		173.5		197.9		24.3			19.8	24.3		222.2			193.4	222.2
2010		200.3		175.8		200.3		24.6			20.1	24.6		224.8			195.8	224.8
2011		202.6		178.0		202.6		24.8			20.2	24.8		227.4			198.2	227.4
2012		204.9		180.0		204.9		24.9			20.3	24.9		229.9			200.3	229.9
2013		207.2		182.4		207.2		25.1			20.4	25.1		232.3			202.8	232.3
2014		209.9		184.9		209.9		25.2			20.5	25.2		235.1			205.4	235.1
2015		212.2		186.8		212.2		25.3			20.6	25.3		237.5			207.5	237.5
2016		214.2		188.9		214.2		25.4			20.7	25.4		239.6			209.6	239.6
2017		216.1		190.5		216.1		25.5			20.8	25.5		241.6			211.3	241.6
2018		217.4		192.0		217.4		25.6			20.9	25.6		243.0			212.8	243.0
2019		219.4		194.1		219.4		25.7			21.0	25.7		245.1			215.1	245.1
2020		221.4		195.6		221.4		25.8			21.0	25.8		247.1			216.7	247.1
2021		222.6		196.8		222.6		25.8			21.1	25.8		248.4			217.8	248.4
2022		223.6		197.4		223.6		25.9			21.1	25.9		249.5			218.5	249.5
2023		224.5		198.4		224.5		25.9			21.2	25.9		250.4			219.5	250.4
2024		226.1		200.1		226.1		26.0			21.2	26.0		252.1			221.4	252.1
2025		228.0		201.6		228.0		26.2			21.3	26.2		254.2			222.9	254.2
2026		229.7		202.9		229.7		26.3			21.4	26.3		255.9			224.3	255.9
2027		231.3		204.3		231.3		26.3			21.4	26.3		257.6			225.8	257.6
2028		233.2		206.0		233.2		26.5			21.5	26.5		259.7			227.5	259.7
2029		235.3		207.5		235.3		26.6			21.6	26.6		261.9			229.1	261.9
2030		236.6		208.5		236.6		26.7			21.6	26.7		263.3			230.2	263.3
90-'06	0.8%	1.1%	2.1%	1.9%	0.8%	1.1%	1.3%	1.4%	-0.5%	-0.9%	1.3%	1.4%	0.8%	1.1%	1.8%	1.6%	0.8%	1.1%
07-'10		1.2%		0.9%		1.2%		2.5%		1.9%		2.5%		1.3%		1.0%		1.3%
10-'15		1.2%		1.2%		1.2%		0.6%		0.6%		0.6%		1.1%		1.2%		1.1%
15-'20		0.8%		0.9%		0.8%		0.4%		0.4%		0.4%		0.8%		0.9%		0.8%
20-'25		0.6%		0.6%		0.6%		0.3%		0.2%		0.3%		0.6%		0.6%		0.6%
25-'30		0.7%		0.7%		0.7%		0.4%		0.3%		0.4%		0.7%		0.6%		0.7%
07-'30		0.9%		0.9%		0.9%		0.7%		0.6%		0.7%		0.9%		0.8%		0.9%



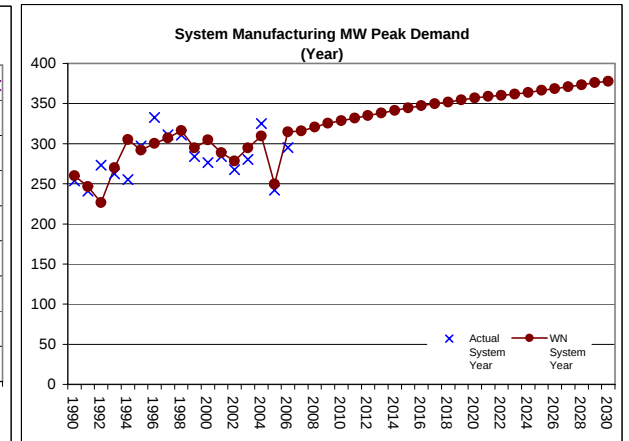
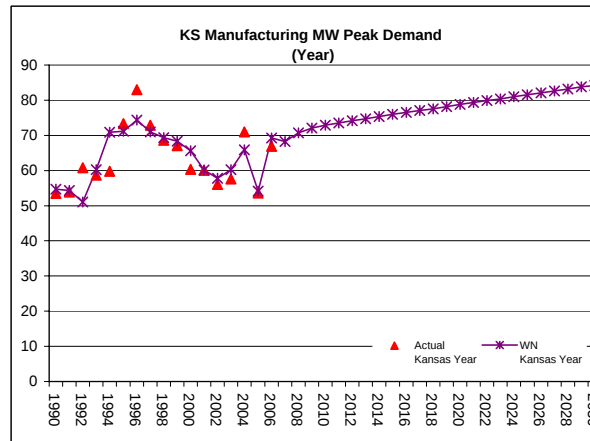
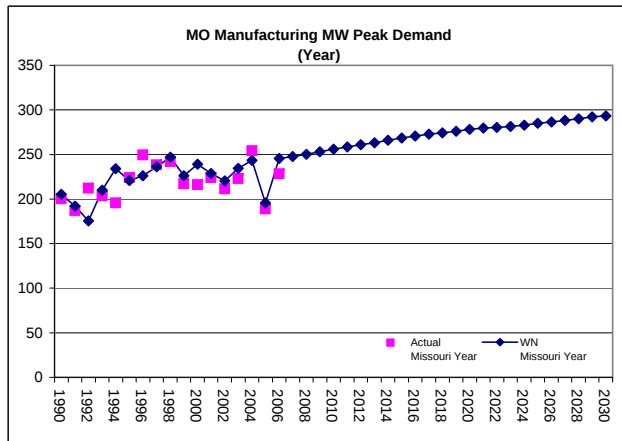
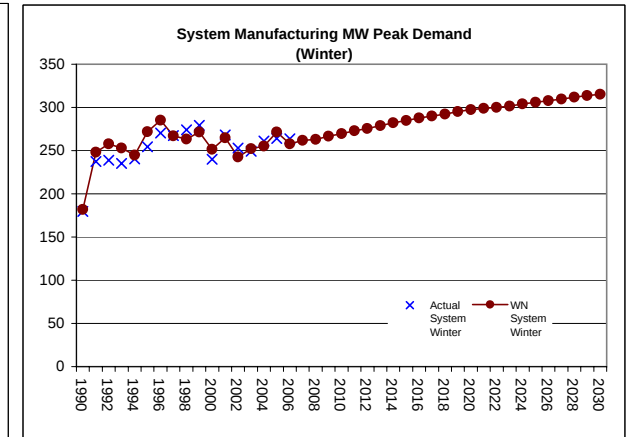
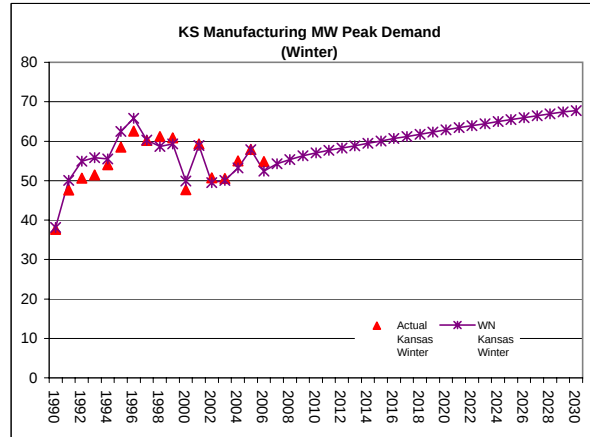
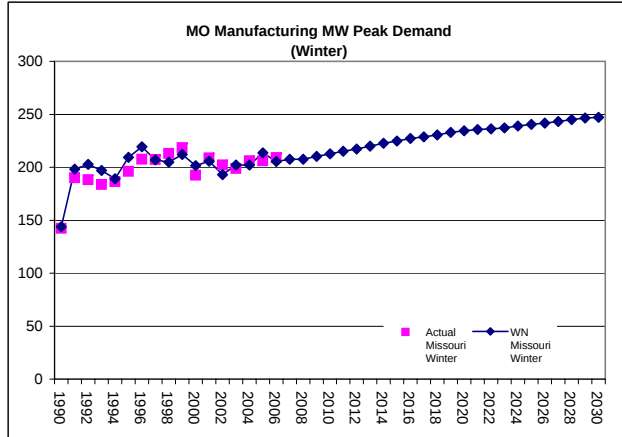
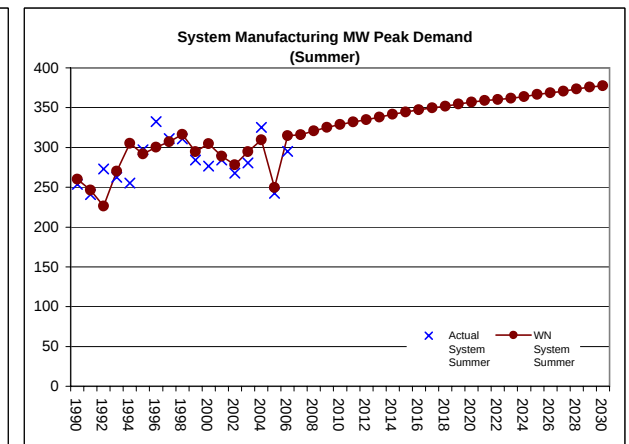
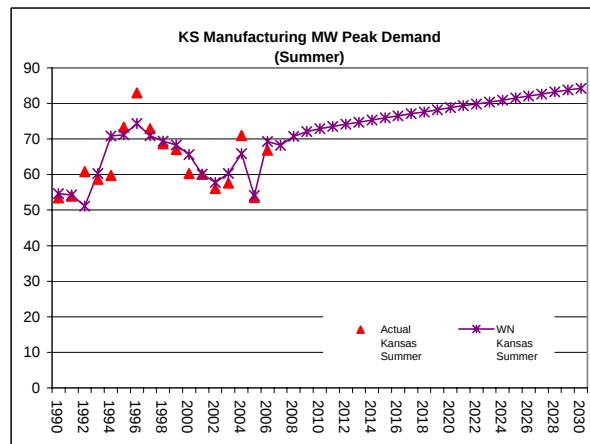
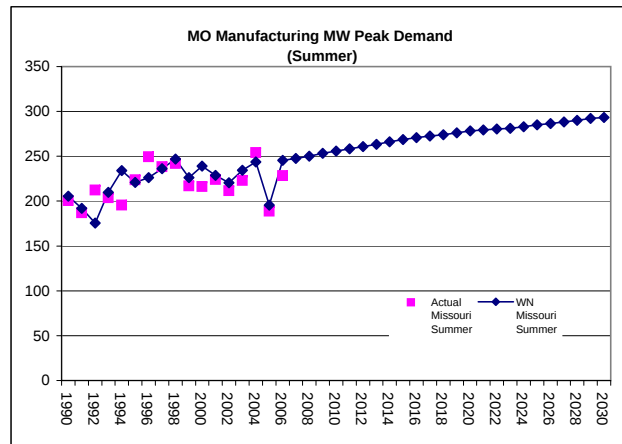
**Plot I-6 Missouri & Kansas Manufacturing Other MW Peak Demand
(Actual vs. Weather Normalized)**

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1990	43.3	44.9	19.0	19.6	43.3	44.9	35.1	35.9	18.6	18.8	35.1	35.9	78.4	80.8	37.6	38.4	78.4	80.8
1991	45.0	45.8	32.5	34.2	45.0	45.8	34.0	34.1	26.2	27.5	34.0	34.1	79.0	80.0	58.7	61.8	79.0	80.0
1992	37.0	32.6	31.8	33.8	37.0	32.6	27.4	24.1	26.4	28.6	27.4	24.1	64.4	56.7	58.2	62.5	64.4	56.7
1993	45.1	46.6	46.7	51.0	45.1	46.6	32.2	33.0	26.8	29.1	32.2	33.0	77.3	79.6	73.5	80.1	77.3	79.6
1994	42.6	50.4	33.5	33.4	42.6	50.4	32.6	38.2	26.9	27.7	32.6	38.2	75.2	88.6	60.4	61.1	75.2	88.6
1995	58.7	58.2	37.2	40.1	58.7	58.2	45.3	44.0	33.2	35.5	45.3	44.0	103.9	102.2	70.4	75.6	103.9	102.2
1996	59.6	55.2	34.9	37.3	59.6	55.2	48.5	44.1	36.0	37.9	48.5	44.1	108.1	99.3	70.9	75.2	108.1	99.3
1997	57.6	57.4	39.5	38.7	57.6	57.4	44.3	43.3	34.6	34.6	44.3	43.3	101.9	100.6	74.0	73.3	101.9	100.6
1998	51.4	52.6	35.5	34.3	51.4	52.6	39.6	40.0	34.7	33.3	39.6	40.0	91.0	92.6	70.2	67.6	91.0	92.6
1999	49.3	50.9	39.7	37.8	49.3	50.9	42.4	43.0	33.8	33.0	42.4	43.0	91.7	93.9	73.5	70.8	91.7	93.9
2000	46.9	51.2	33.2	34.7	46.9	51.2	38.4	41.5	29.6	31.0	38.4	41.5	85.3	92.6	62.7	65.7	85.3	92.6
2001	49.4	49.8	39.5	38.1	49.4	49.8	41.0	41.0	38.1	37.8	41.0	41.0	90.4	90.9	77.6	75.9	90.4	90.9
2002	47.0	49.0	35.0	33.4	47.0	49.0	39.5	40.6	34.2	33.4	39.5	40.6	86.5	89.7	69.1	66.8	86.5	89.7
2003	45.2	47.6	34.9	33.7	45.2	47.6	39.7	41.6	35.2	34.9	39.7	41.6	84.9	89.2	70.2	68.6	84.9	89.2
2004	55.0	51.9	32.7	31.7	55.0	51.9	47.8	44.5	36.7	35.6	47.8	44.5	102.8	96.4	69.5	67.3	102.8	96.4
2005	32.6	34.0	34.8	36.5	32.6	34.0	32.8	33.1	38.0	38.1	32.8	33.1	65.4	67.2	72.8	74.6	65.4	67.2
2006	51.0	54.8	37.6	36.8	51.0	54.8	44.3	45.8	37.3	35.7	44.3	45.8	95.4	100.7	74.9	72.6	95.4	100.7
2007		54.4		36.4		54.4		45.4		35.3		45.4		99.8		71.7		99.8
2008		54.9		36.3		54.9		46.9		35.8		46.9		101.8		72.2		101.8
2009		55.4		36.7		55.4		47.8		36.5		47.8		103.2		73.1		103.2
2010		55.6		36.9		55.6		48.3		37.0		48.3		103.9		73.9		103.9
2011		55.8		37.1		55.8		48.8		37.5		48.8		104.6		74.6		104.6
2012		56.0		37.3		56.0		49.3		37.9		49.3		105.2		75.3		105.2
2013		56.1		37.6		56.1		49.7		38.4		49.7		105.8		76.0		105.8
2014		56.3		37.8		56.3		50.2		38.9		50.2		106.5		76.7		106.5
2015		56.5		38.0		56.5		50.6		39.4		50.6		107.1		77.4		107.1
2016		56.6		38.2		56.6		51.1		39.9		51.1		107.7		78.1		107.7
2017		56.7		38.4		56.7		51.6		40.4		51.6		108.3		78.8		108.3
2018		56.7		38.5		56.7		52.0		40.9		52.0		108.7		79.4		108.7
2019		56.8		38.7		56.8		52.5		41.4		52.5		109.3		80.1		109.3
2020		56.9		38.8		56.9		53.0		41.9		53.0		110.0		80.7		110.0
2021		56.9		38.9		56.9		53.5		42.3		53.5		110.4		81.2		110.4
2022		56.9		38.8		56.9		54.0		42.8		54.0		110.8		81.6		110.8
2023		56.8		38.8		56.8		54.4		43.3		54.4		111.2		82.1		111.2
2024		56.8		38.9		56.8		54.9		43.7		54.9		111.7		82.6		111.7
2025		56.9		38.9		56.9		55.4		44.2		55.4		112.3		83.1		112.3
2026		56.9		38.9		56.9		55.8		44.6		55.8		112.7		83.5		112.7
2027		56.9		38.9		56.9		56.3		45.0		56.3		113.1		83.9		113.1
2028		56.9		38.9		56.9		56.7		45.4		56.7		113.6		84.4		113.6
2029		56.9		38.9		56.9		57.2		45.8		57.2		114.1		84.7		114.1
2030		56.7		38.7		56.7		57.5		46.2		57.5		114.2		84.9		114.2
90-'06	1.0%	1.3%	4.3%	4.0%	1.0%	1.3%	1.5%	1.5%	4.5%	4.1%	1.5%	1.5%	1.2%	1.4%	4.4%	4.1%	1.2%	1.4%
07-'10		0.8%		0.5%		0.8%		2.1%		1.6%		2.1%		1.4%		1.0%		1.4%
10-'15		0.3%		0.6%		0.3%		0.9%		1.3%		0.9%		0.6%		0.9%		0.6%
15-'20		0.2%		0.4%		0.2%		0.9%		1.2%		0.9%		0.5%		0.8%		0.5%
20-'25		0.0%		0.0%		0.0%		0.9%		1.1%		0.9%		0.4%		0.6%		0.4%
25-'30		-0.1%		-0.1%		-0.1%		0.8%		0.9%		0.8%		0.3%		0.4%		0.3%
07-'30		0.2%		0.3%		0.2%		1.0%		1.2%		1.0%		0.6%		0.7%		0.6%



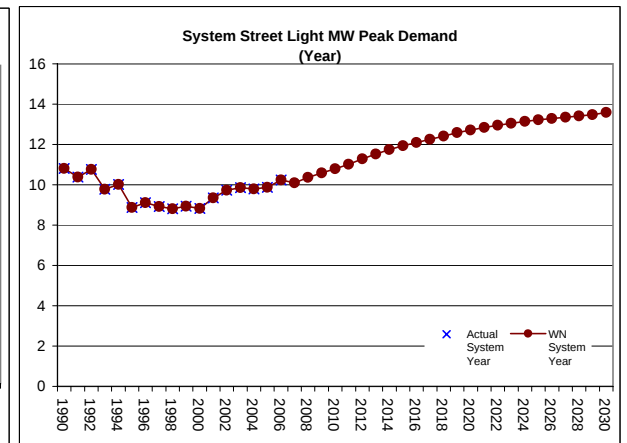
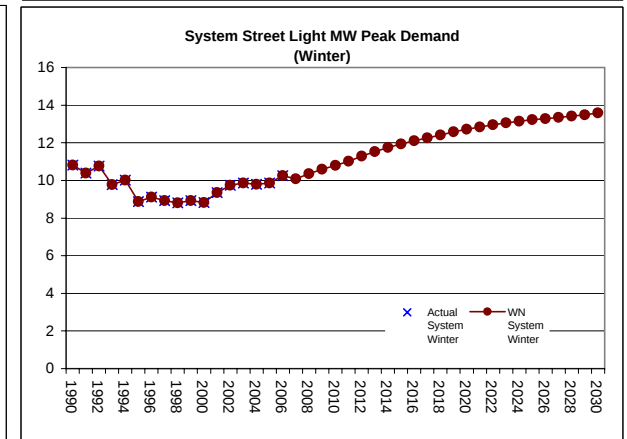
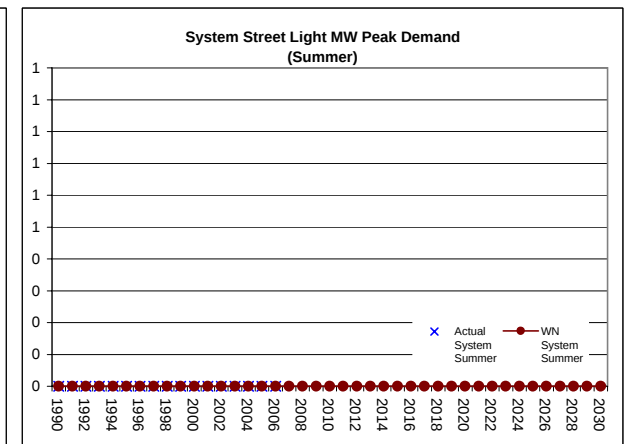
**Plot I-7 Missouri & Kansas Manufacturing MW Peak Demand
(Actual vs. Weather Normalized)**

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1990	200.4	205.4	142.2	143.7	200.4	205.4	53.5	54.7	37.6	38.1	53.5	54.7	253.8	260.1	179.8	181.8	253.8	260.1
1991	186.9	192.0	189.9	198.2	186.9	192.0	53.9	54.3	47.7	50.1	53.9	54.3	240.8	246.3	237.6	248.2	240.8	246.3
1992	212.2	175.4	188.2	202.7	212.2	175.4	60.8	51.1	50.6	54.9	60.8	51.1	273.0	226.5	238.9	257.6	273.0	226.5
1993	203.7	209.8	183.8	197.1	203.7	209.8	58.7	60.3	51.4	55.8	58.7	60.3	262.4	270.1	235.2	252.9	262.4	270.1
1994	195.6	234.2	186.4	189.3	195.6	234.2	59.8	70.9	54.1	55.5	59.8	70.9	255.4	305.1	240.5	244.8	255.4	305.1
1995	223.9	220.7	196.0	209.4	223.9	220.7	73.4	71.2	58.5	62.5	73.4	71.2	297.2	291.9	254.5	271.8	297.2	291.9
1996	249.6	226.1	207.7	219.2	249.6	226.1	83.0	74.4	62.5	65.8	83.0	74.4	332.6	300.5	270.2	285.0	332.6	300.5
1997	238.3	236.2	207.3	206.9	238.3	236.2	72.9	71.0	60.2	60.3	72.9	71.0	311.2	307.1	267.6	267.2	311.2	307.1
1998	241.9	246.8	213.0	204.8	241.9	246.8	68.7	69.4	61.2	58.7	68.7	69.4	310.6	316.2	274.2	263.5	310.6	316.2
1999	217.1	226.3	218.5	212.2	217.1	226.3	67.1	68.3	60.8	59.3	67.1	68.3	284.1	294.6	279.3	271.5	284.1	294.6
2000	216.1	239.0	192.5	201.5	216.1	239.0	60.3	65.6	47.7	49.9	60.3	65.6	276.4	304.6	240.1	251.5	276.4	304.6
2001	224.0	228.8	208.7	205.8	224.0	228.8	60.1	60.1	59.3	58.9	60.1	60.1	284.1	288.9	268.0	264.7	284.1	288.9
2002	211.6	220.5	202.1	193.2	211.6	220.5	56.1	57.8	50.7	49.5	56.1	57.8	267.6	278.2	252.8	242.7	267.6	278.2
2003	223.0	234.3	198.7	202.2	223.0	234.3	57.6	60.3	50.6	50.0	57.6	60.3	280.5	294.6	249.3	252.3	280.5	294.6
2004	254.2	243.5	206.1	202.0	254.2	243.5	71.0	65.9	55.0	53.2	71.0	65.9	325.2	309.4	261.2	255.3	325.2	309.4
2005	188.7	195.7	206.0	213.5	188.7	195.7	53.6	54.1	57.9	57.9	53.6	54.1	242.3	249.8	263.9	271.4	242.3	249.8
2006	228.4	245.5	209.0	205.3	228.4	245.5	66.9	69.3	54.8	52.4	66.9	69.3	295.3	314.8	263.8	257.8	295.3	314.8
2007		247.6		207.6		247.6		68.2		54.3		68.2		315.9		261.9		315.9
2008		250.1		207.6		250.1		70.7		55.3		70.7		320.8		262.9		320.8
2009		253.2		210.2		253.2		72.1		56.3		72.1		325.4		266.5		325.4
2010		255.9		212.7		255.9		72.9		57.0		72.9		328.8		269.7		328.8
2011		258.4		215.2		258.4		73.5		57.7		73.5		332.0		272.9		332.0
2012		260.9		217.3		260.9		74.2		58.3		74.2		335.1		275.6		335.1
2013		263.3		220.0		263.3		74.7		58.8		74.7		338.0		278.8		338.0
2014		266.2		222.7		266.2		75.4		59.5		75.4		341.5		282.2		341.5
2015		268.7		224.8		268.7		76.0		60.0		76.0		344.6		284.9		344.6
2016		270.8		227.1		270.8		76.5		60.6		76.5		347.3		287.8		347.3
2017		272.8		228.8		272.8		77.1		61.2		77.1		349.9		290.0		349.9
2018		274.1		230.5		274.1		77.6		61.7		77.6		351.7		292.2		351.7
2019		276.2		232.8		276.2		78.2		62.3		78.2		354.4		295.1		354.4
2020		278.3		234.5		278.3		78.8		62.9		78.8		357.1		297.4		357.1
2021		279.5		235.6		279.5		79.3		63.4		79.3		358.8		299.0		358.8
2022		280.4		236.2		280.4		79.9		63.9		79.9		360.3		300.2		360.3
2023		281.3		237.2		281.3		80.4		64.4		80.4		361.7		301.6		361.7
2024		282.9		239.0		282.9		81.0		65.0		81.0		363.8		304.0		363.8
2025		284.9		240.5		284.9		81.6		65.5		81.6		366.5		306.0		366.5
2026		286.6		241.8		286.6		82.1		66.0		82.1		368.7		307.8		368.7
2027		288.1		243.2		288.1		82.6		66.5		82.6		370.8		309.7		370.8
2028		290.1		244.9		290.1		83.2		66.9		83.2		373.3		311.9		373.3
2029		292.2		246.4		292.2		83.8		67.4		83.8		375.9		313.8		375.9
2030		293.3		247.3		293.3		84.2		67.8		84.2		377.5		315.1		377.5
90-'06	0.8%	1.1%	2.4%	2.3%	0.8%	1.1%	1.4%	1.5%	2.4%	2.0%	1.4%	1.5%	0.9%	1.2%	2.4%	2.2%	0.9%	1.2%
07-'10		1.1%		0.8%		1.1%		2.2%		1.7%		2.2%		1.3%		1.0%		1.3%
10-'15		1.0%		1.1%		1.0%		0.8%		1.0%		0.8%		0.9%		1.1%		0.9%
15-'20		0.7%		0.8%		0.7%		0.7%		0.9%		0.7%		0.7%		0.9%		0.7%
20-'25		0.5%		0.5%		0.5%		0.7%		0.8%		0.7%		0.5%		0.6%		0.5%
25-'30		0.6%		0.6%		0.6%		0.6%		0.7%		0.6%		0.6%		0.6%		0.6%
07-'30		0.7%		0.8%		0.7%		0.9%		1.0%		0.9%		0.8%		0.8%		0.8%



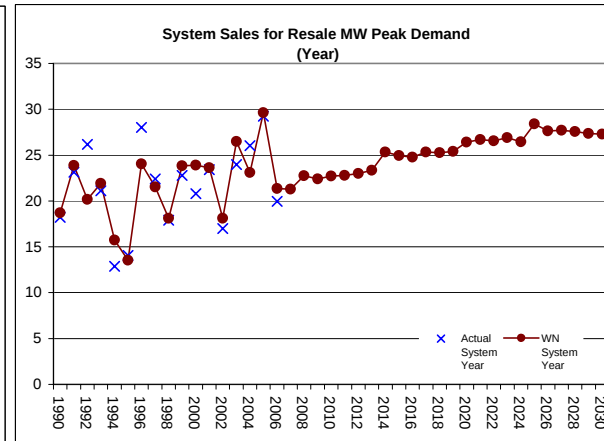
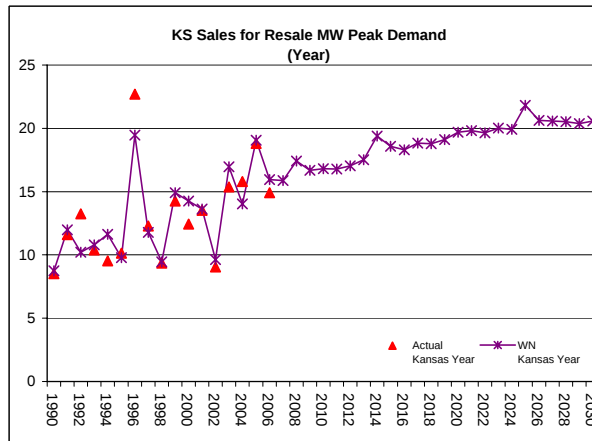
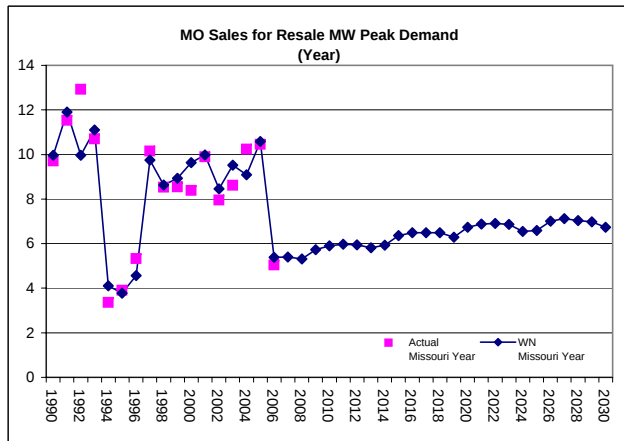
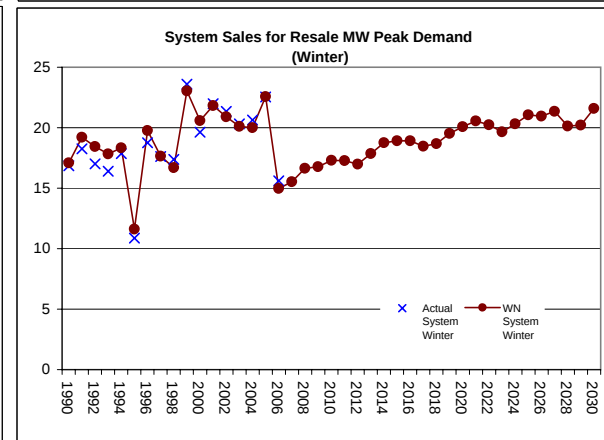
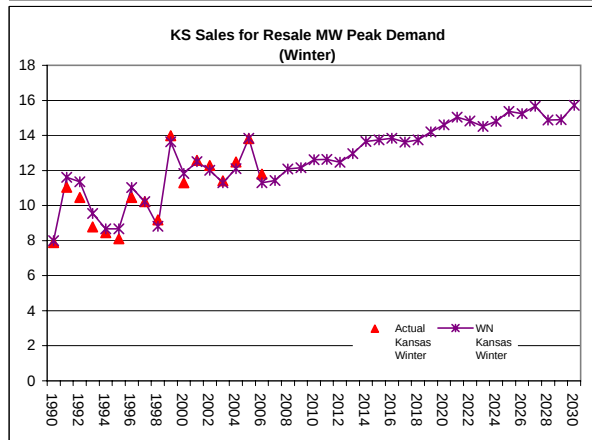
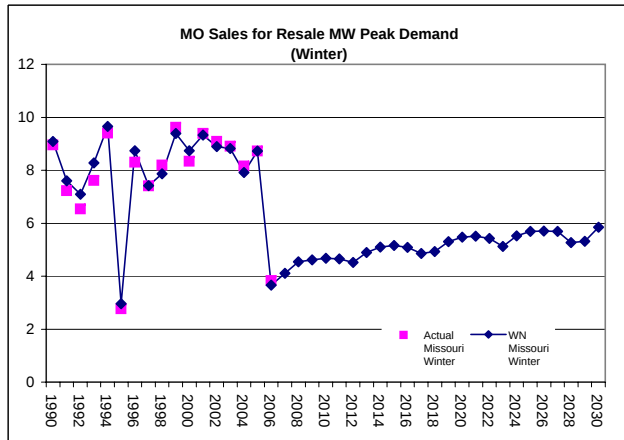
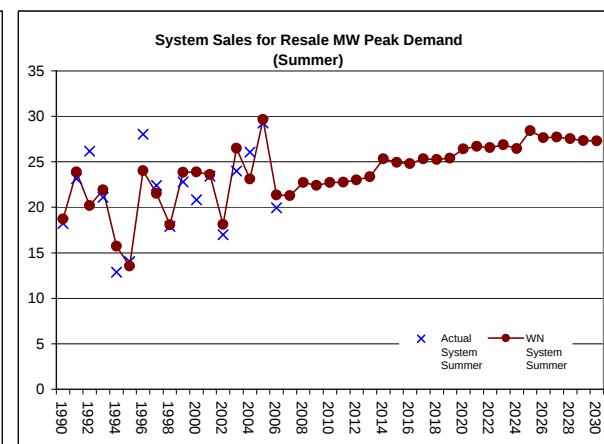
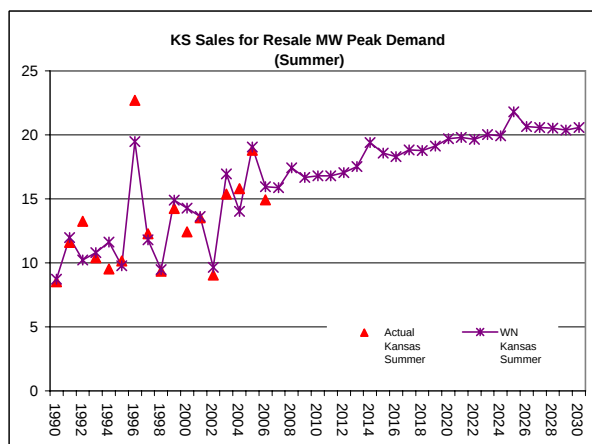
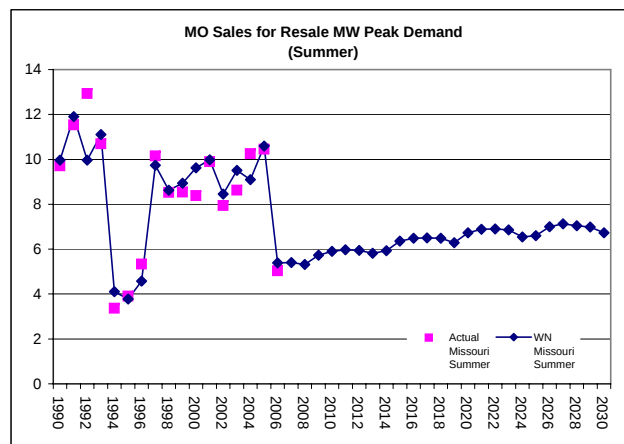
Plot I-8 Missouri & Kansas Street Lights and Traffic Signals MW Peak Demand
(Actual vs. Weather Normalized)

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1990	0.0	0.0	7.2	7.2	7.2	7.2	0.0	0.0	3.6	3.6	3.6	3.6	0.0	0.0	10.8	10.8	10.8	10.8
1991	0.0	0.0	7.0	7.0	7.0	7.0	0.0	0.0	3.4	3.4	3.4	3.4	0.0	0.0	10.4	10.4	10.4	10.4
1992	0.0	0.0	7.2	7.2	7.2	7.2	0.0	0.0	3.5	3.5	3.5	3.5	0.0	0.0	10.8	10.8	10.8	10.8
1993	0.0	0.0	6.4	6.4	6.4	6.4	0.0	0.0	3.3	3.3	3.3	3.3	0.0	0.0	9.8	9.8	9.8	9.8
1994	0.0	0.0	6.7	6.7	6.7	6.7	0.0	0.0	3.3	3.3	3.3	3.3	0.0	0.0	10.0	10.0	10.0	10.0
1995	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	3.1	3.1	3.1	3.1	0.0	0.0	8.9	8.9	8.9	8.9
1996	0.0	0.0	6.1	6.1	6.1	6.1	0.0	0.0	3.1	3.1	3.1	3.1	0.0	0.0	9.1	9.1	9.1	9.1
1997	0.0	0.0	5.9	5.9	5.9	5.9	0.0	0.0	3.0	3.0	3.0	3.0	0.0	0.0	8.9	8.9	8.9	8.9
1998	0.0	0.0	5.5	5.5	5.5	5.5	0.0	0.0	3.3	3.3	3.3	3.3	0.0	0.0	8.8	8.8	8.8	8.8
1999	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	3.2	3.2	3.2	3.2	0.0	0.0	8.9	8.9	8.9	8.9
2000	0.0	0.0	6.2	6.2	6.2	6.2	0.0	0.0	2.6	2.6	2.6	2.6	0.0	0.0	8.8	8.8	8.8	8.8
2001	0.0	0.0	6.6	6.6	6.6	6.6	0.0	0.0	2.7	2.7	2.7	2.7	0.0	0.0	9.4	9.4	9.4	9.4
2002	0.0	0.0	7.1	7.1	7.1	7.1	0.0	0.0	2.7	2.7	2.7	2.7	0.0	0.0	9.7	9.7	9.7	9.7
2003	0.0	0.0	7.3	7.3	7.3	7.3	0.0	0.0	2.6	2.6	2.6	2.6	0.0	0.0	9.9	9.9	9.9	9.9
2004	0.0	0.0	7.2	7.2	7.2	7.2	0.0	0.0	2.6	2.6	2.6	2.6	0.0	0.0	9.8	9.8	9.8	9.8
2005	0.0	0.0	7.1	7.1	7.1	7.1	0.0	0.0	2.7	2.7	2.7	2.7	0.0	0.0	9.9	9.9	9.9	9.9
2006	0.0	0.0	7.5	7.5	7.5	7.5	0.0	0.0	2.7	2.7	2.7	2.7	0.0	0.0	10.2	10.2	10.2	10.2
2007		0.0		7.6		7.6		0.0		2.5		2.5		0.0		10.1		10.1
2008		0.0		7.8		7.8		0.0		2.5		2.5		0.0		10.4		10.4
2009		0.0		8.1		8.1		0.0		2.5		2.5		0.0		10.6		10.6
2010		0.0		8.3		8.3		0.0		2.5		2.5		0.0		10.8		10.8
2011		0.0		8.5		8.5		0.0		2.5		2.5		0.0		11.0		11.0
2012		0.0		8.8		8.8		0.0		2.5		2.5		0.0		11.3		11.3
2013		0.0		9.0		9.0		0.0		2.5		2.5		0.0		11.5		11.5
2014		0.0		9.2		9.2		0.0		2.5		2.5		0.0		11.8		11.8
2015		0.0		9.4		9.4		0.0		2.5		2.5		0.0		11.9		11.9
2016		0.0		9.6		9.6		0.0		2.5		2.5		0.0		12.1		12.1
2017		0.0		9.7		9.7		0.0		2.5		2.5		0.0		12.3		12.3
2018		0.0		9.9		9.9		0.0		2.5		2.5		0.0		12.4		12.4
2019		0.0		10.0		10.0		0.0		2.5		2.5		0.0		12.6		12.6
2020		0.0		10.2		10.2		0.0		2.5		2.5		0.0		12.7		12.7
2021		0.0		10.3		10.3		0.0		2.5		2.5		0.0		12.8		12.8
2022		0.0		10.4		10.4		0.0		2.6		2.6		0.0		13.0		13.0
2023		0.0		10.5		10.5		0.0		2.6		2.6		0.0		13.1		13.1
2024		0.0		10.6		10.6		0.0		2.6		2.6		0.0		13.1		13.1
2025		0.0		10.7		10.7		0.0		2.6		2.6		0.0		13.2		13.2
2026		0.0		10.7		10.7		0.0		2.6		2.6		0.0		13.3		13.3
2027		0.0		10.8		10.8		0.0		2.6		2.6		0.0		13.4		13.4
2028		0.0		10.9		10.9		0.0		2.6		2.6		0.0		13.4		13.4
2029		0.0		10.9		10.9		0.0		2.6		2.6		0.0		13.5		13.5
2030		0.0		11.0		11.0				2.6		2.6		0.0		13.6		13.6
90-'06			0.2%	0.2%	0.2%	0.2%			-1.7%	-1.7%	-1.7%	-1.7%			-0.3%	-0.3%	-0.3%	-0.3%
07-'10				2.9%		2.9%				0.3%		0.3%				2.3%		2.3%
10-'15				2.6%		2.6%				0.1%		0.1%				2.0%		2.0%
15-'20				1.6%		1.6%				0.0%		0.0%				1.3%		1.3%
20-'25				0.9%		0.9%				0.1%		0.1%				0.8%		0.8%
25-'30				0.6%		0.6%				0.4%		0.4%				0.5%		0.5%
07-'30				1.6%		1.6%				0.2%		0.2%				1.3%		1.3%



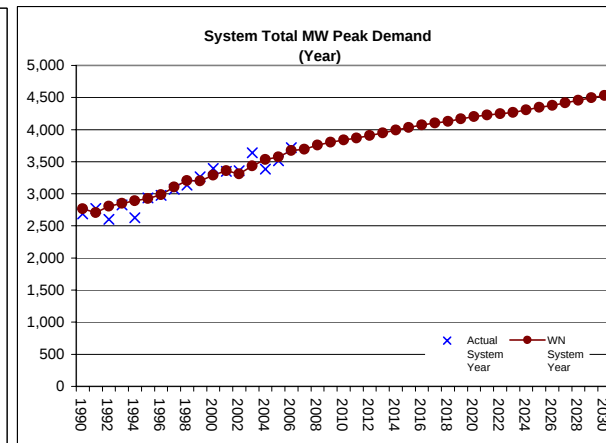
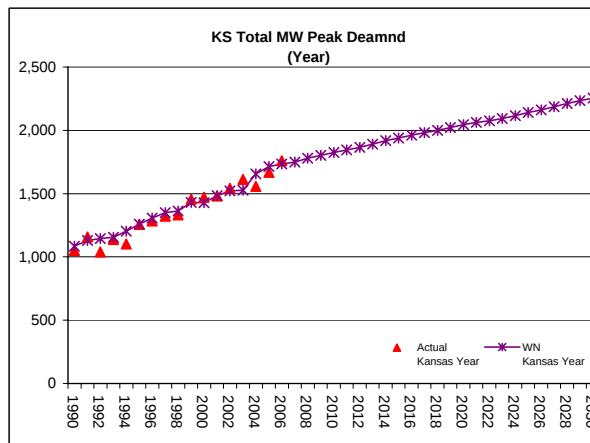
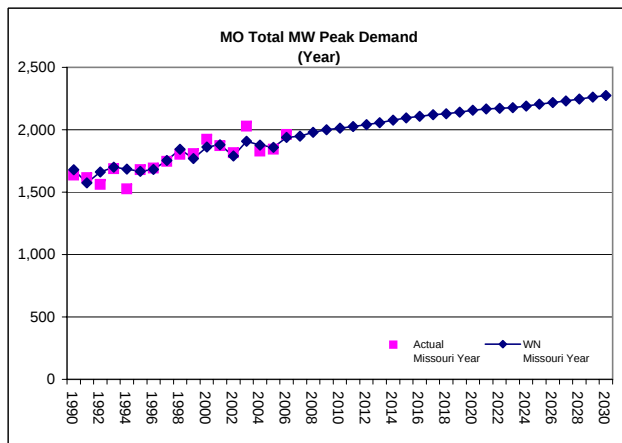
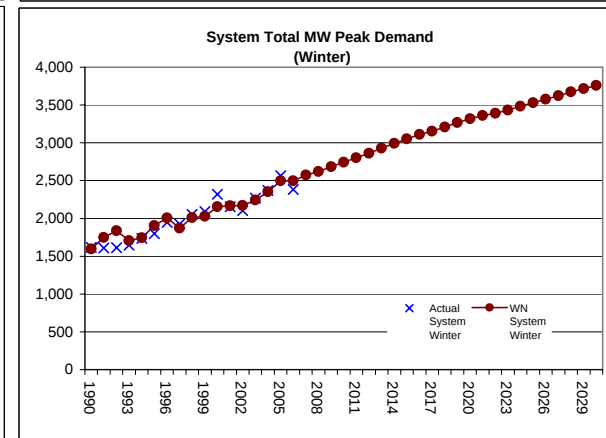
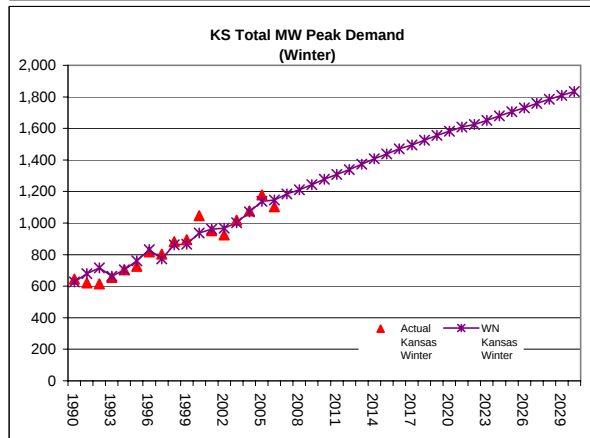
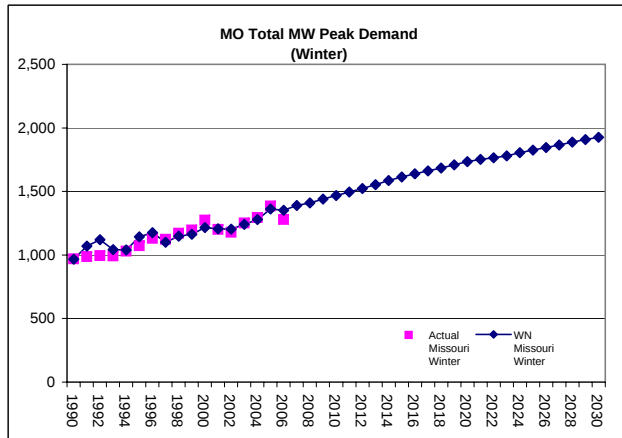
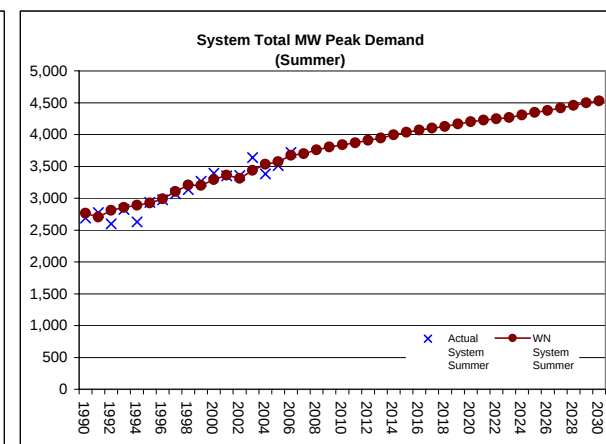
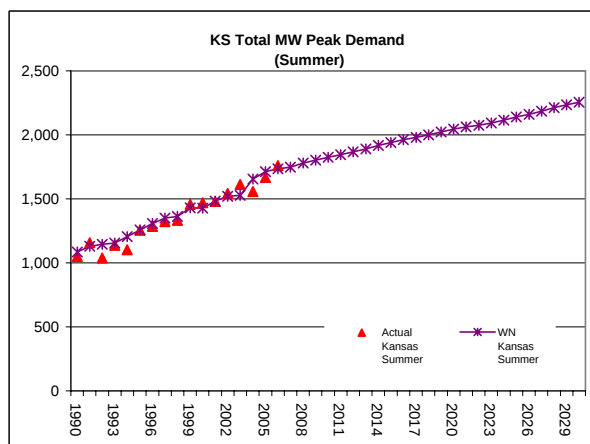
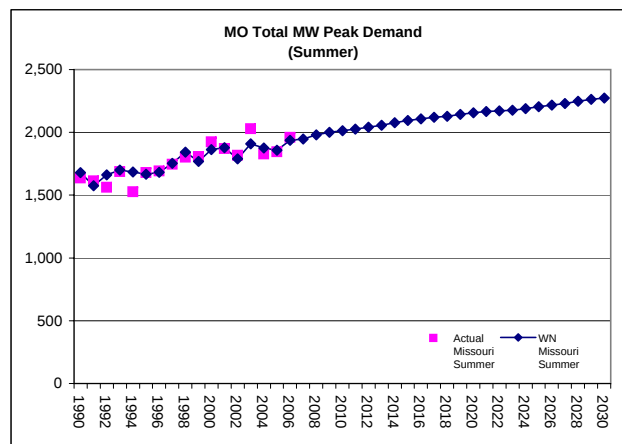
**Plot I-9 Missouri & Kansas Sales for Resale MW Peak Demand
(Actual vs. Weather Normalized)**

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1990	9.7	10.0	9.0	9.1	9.7	10.0	8.5	8.7	7.9	8.0	8.5	8.7	18.2	18.7	16.8	17.1	18.2	18.7
1991	11.5	11.9	7.2	7.6	11.5	11.9	11.6	12.0	11.0	11.6	11.6	12.0	23.1	23.9	18.3	19.2	23.1	23.9
1992	12.9	10.0	6.5	7.1	12.9	10.0	13.2	10.2	10.5	11.4	13.2	10.2	26.2	20.2	17.0	18.4	26.2	20.2
1993	10.7	11.1	7.6	8.3	10.7	11.1	10.4	10.8	8.8	9.5	10.4	10.8	21.1	21.9	16.4	17.8	21.1	21.9
1994	3.4	4.1	9.4	9.7	3.4	4.1	9.5	11.6	8.4	8.7	9.5	11.6	12.9	15.7	17.8	18.3	12.9	15.7
1995	3.9	3.8	2.8	3.0	3.9	3.8	10.1	9.8	8.1	8.7	10.1	9.8	14.1	13.6	10.9	11.6	14.1	13.6
1996	5.3	4.6	8.3	8.7	5.3	4.6	22.7	19.5	10.5	11.0	22.7	19.5	28.0	24.0	18.8	19.8	28.0	24.0
1997	10.1	9.7	7.4	7.4	10.1	9.7	12.3	11.8	10.2	10.2	12.3	11.8	22.4	21.5	17.6	17.7	22.4	21.5
1998	8.5	8.6	8.2	7.9	8.5	8.6	9.4	9.5	9.2	8.8	9.4	9.5	17.9	18.1	17.4	16.7	17.9	18.1
1999	8.5	8.9	9.6	9.4	8.5	8.9	14.2	14.9	14.0	13.6	14.2	14.9	22.8	23.8	23.6	23.0	22.8	23.8
2000	8.4	9.6	8.3	8.7	8.4	9.6	12.4	14.3	11.3	11.8	12.4	14.3	20.8	23.9	19.6	20.6	20.8	23.9
2001	9.9	10.0	9.4	9.3	9.9	10.0	13.5	13.6	12.6	12.5	13.5	13.6	23.4	23.6	22.0	21.8	23.4	23.6
2002	7.9	8.5	9.1	8.9	7.9	8.5	9.1	9.6	12.3	12.0	9.1	9.6	17.0	18.1	21.4	20.9	17.0	18.1
2003	8.6	9.5	8.9	8.8	8.6	9.5	15.4	17.0	11.4	11.3	15.4	17.0	24.0	26.5	20.3	20.1	24.0	26.5
2004	10.2	9.1	8.2	7.9	10.2	9.1	15.8	14.0	12.5	12.1	15.8	14.0	26.0	23.1	20.6	20.0	26.0	23.1
2005	10.4	10.6	8.7	8.7	10.4	10.6	18.8	19.1	13.8	13.8	18.8	19.1	29.3	29.6	22.5	22.6	29.3	29.6
2006	5.0	5.4	3.8	3.7	5.0	5.4	14.9	16.0	11.8	11.3	14.9	16.0	20.0	21.3	15.6	15.0	20.0	21.3
2007		5.4		4.1		5.4		15.9		11.4		15.9		21.3		15.5		21.3
2008		5.3		4.5		5.3		17.4		12.1		17.4		22.7		16.6		22.7
2009		5.7		4.6		5.7		16.7		12.2		16.7		22.4		16.8		22.4
2010		5.9		4.7		5.9		16.8		12.6		16.8		22.7		17.3		22.7
2011		6.0		4.7		6.0		16.8		12.6		16.8		22.8		17.3		22.8
2012		5.9		4.5		5.9		17.0		12.5		17.0		23.0		17.0		23.0
2013		5.8		4.9		5.8		17.5		13.0		17.5		23.3		17.9		23.3
2014		5.9		5.1		5.9		19.4		13.6		19.4		25.3		18.8		25.3
2015		6.4		5.2		6.4		18.6		13.7		18.6		24.9		18.9		24.9
2016		6.5		5.1		6.5		18.3		13.8		18.3		24.8		18.9		24.8
2017		6.5		4.9		6.5		18.8		13.6		18.8		25.3		18.5		25.3
2018		6.5		4.9		6.5		18.8		13.7		18.8		25.3		18.7		25.3
2019		6.3		5.3		6.3		19.1		14.2		19.1		25.4		19.5		25.4
2020		6.7		5.5		6.7		19.7		14.6		19.7		26.4		20.1		26.4
2021		6.9		5.5		6.9		19.8		15.0		19.8		26.7		20.6		26.7
2022		6.9		5.4		6.9		19.6		14.8		19.6		26.5		20.2		26.5
2023		6.9		5.1		6.9		20.0		14.5		20.0		26.9		19.6		26.9
2024		6.5		5.5		6.5		19.9		14.8		19.9		26.5		20.3		26.5
2025		6.6		5.7		6.6		21.8		15.4		21.8		28.4		21.1		28.4
2026		7.0		5.7		7.0		20.6		15.2		20.6		27.6		20.9		27.6
2027		7.1		5.7		7.1		20.6		15.7		20.6		27.7		21.3		27.7
2028		7.0		5.3		7.0		20.5		14.9		20.5		27.6		20.1		27.6
2029		7.0		5.3		7.0		20.4		14.9		20.4		27.3		20.2		27.3
2030		6.7		5.9		6.7		20.6		15.7		20.6		27.3		21.6		27.3
90-'06	-4.0%	-3.8%	-5.2%	-5.5%	-4.0%	-3.8%	3.6%	3.8%	2.6%	2.2%	3.6%	3.8%	0.6%	0.8%	-0.5%	-0.8%	0.6%	0.8%
07-'10		3.0%		4.5%		3.0%		1.9%		3.4%		1.9%		2.2%		3.7%		2.2%
10-'15		1.5%		2.0%		1.5%		2.0%		1.7%		2.0%		1.9%		1.8%		1.9%
15-'20		1.1%		1.2%		1.1%		1.2%		1.2%		1.2%		1.2%		1.2%		1.2%
20-'25		-0.4%		0.8%		-0.4%		2.1%		1.0%		2.1%		1.5%		1.0%		1.5%
25-'30		0.4%		0.6%		0.4%		-1.2%		0.4%		-1.2%		-0.8%		0.5%		-0.8%
07-'30		1.0%		1.6%		1.0%		1.1%		1.4%		1.1%		1.1%		1.4%		1.1%



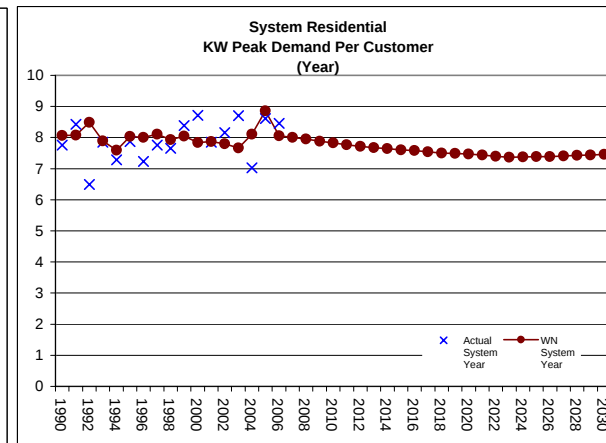
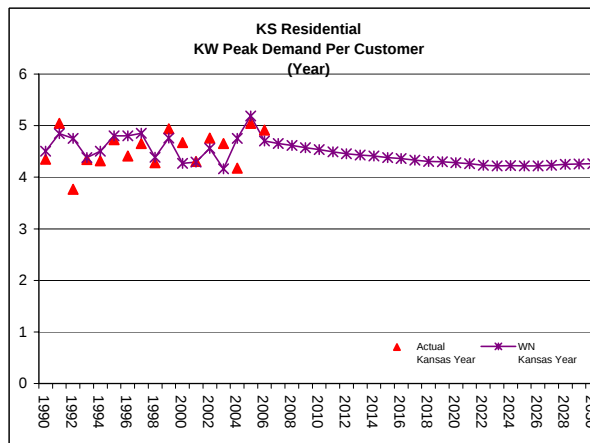
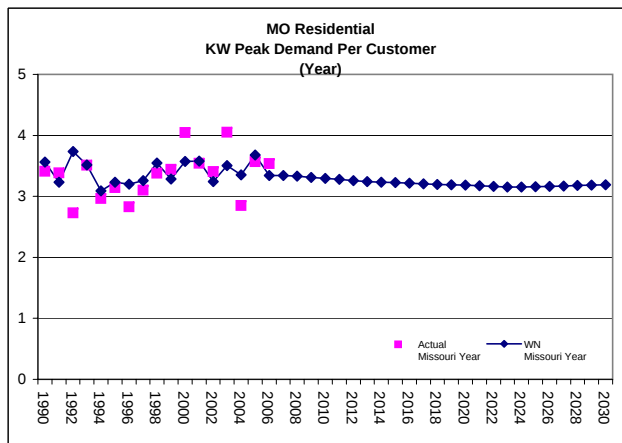
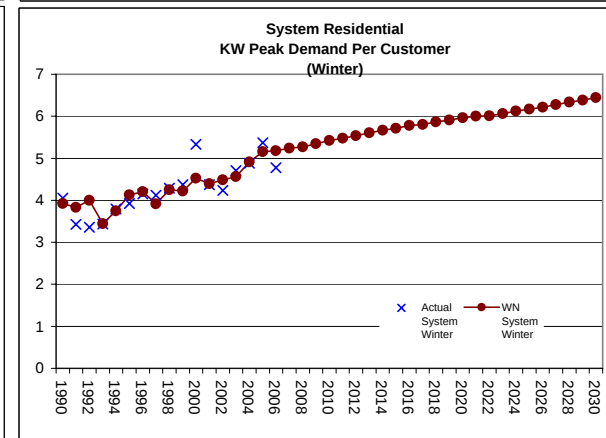
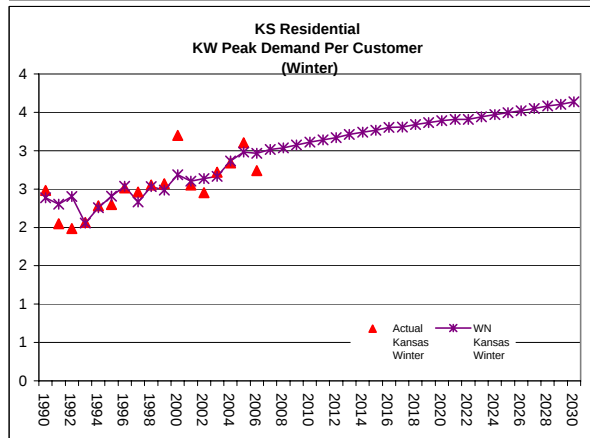
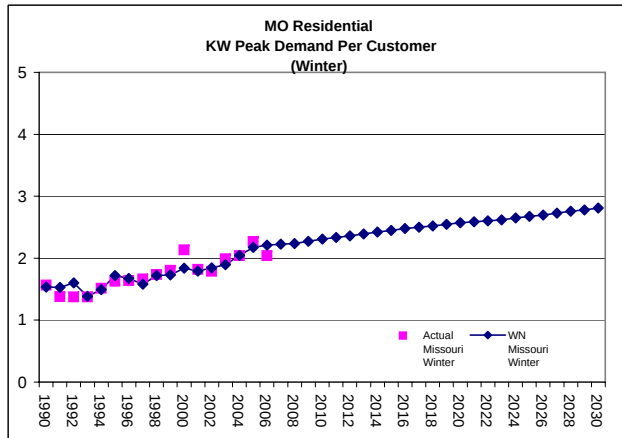
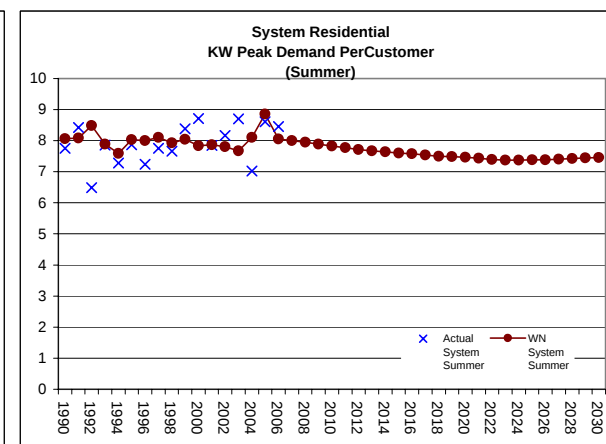
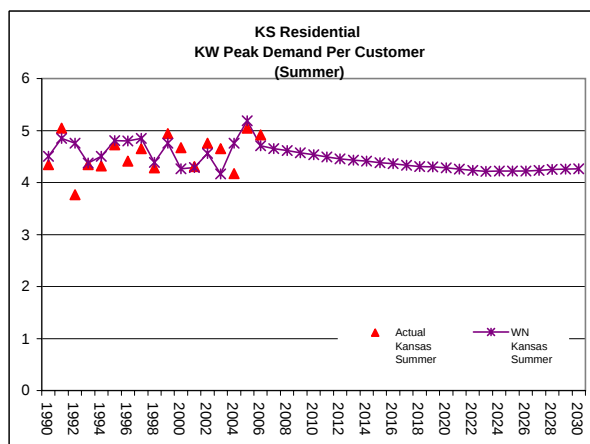
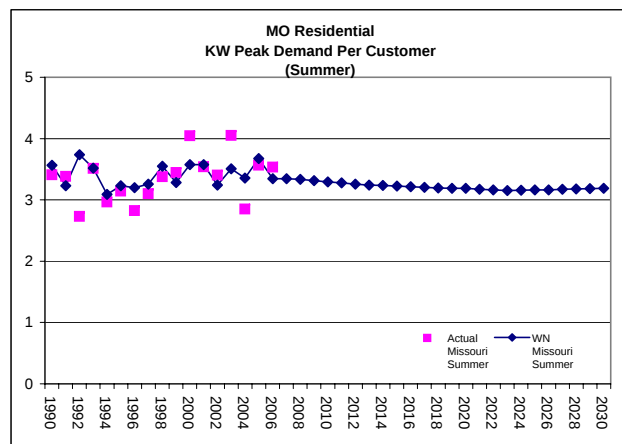
**Plot I-10 Missouri & Kansas Total System MW Peak Demand
(Actual vs. Weather Normalized)**

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1990	1,636.2	1,680.3	969.0	968.0	1,636.2	1,680.3	1,050.8	1,084.7	646.0	626.4	1,050.8	1,084.7	2,687.0	2,765.0	1,615.0	1,594.4	2,687.0	2,765.0
1991	1,614.1	1,574.3	987.8	1,069.3	1,614.1	1,574.3	1,157.9	1,130.7	621.2	679.6	1,157.9	1,130.7	2,772.0	2,705.0	1,609.0	1,749.0	2,772.0	2,705.0
1992	1,561.4	1,662.8	995.7	1,121.0	1,561.4	1,662.8	1,038.6	1,144.2	615.3	716.9	1,038.6	1,144.2	2,600.0	2,807.0	1,611.0	1,838.0	2,600.0	2,807.0
1993	1,687.9	1,698.9	993.0	1,042.1	1,687.9	1,698.9	1,137.1	1,154.1	655.0	663.0	1,137.1	1,154.1	2,825.0	2,853.0	1,648.0	1,705.1	2,825.0	2,853.0
1994	1,526.4	1,685.1	1,030.0	1,039.3	1,526.4	1,685.1	1,102.6	1,203.9	704.0	702.9	1,102.6	1,203.9	2,629.0	2,889.0	1,734.0	1,742.3	2,629.0	2,889.0
1995	1,679.4	1,667.4	1,072.4	1,142.9	1,679.4	1,667.4	1,255.6	1,258.6	726.6	761.3	1,255.6	1,258.6	2,935.0	2,926.0	1,799.0	1,904.2	2,935.0	2,926.0
1996	1,691.8	1,681.3	1,129.7	1,175.4	1,691.8	1,681.3	1,285.2	1,306.7	817.3	831.2	1,285.2	1,306.7	2,977.0	2,988.0	1,947.0	2,006.5	2,977.0	2,988.0
1997	1,746.3	1,754.1	1,123.3	1,100.1	1,746.3	1,754.1	1,322.7	1,349.9	803.7	772.8	1,322.7	1,349.9	3,069.0	3,104.0	1,927.0	1,872.9	3,069.0	3,104.0
1998	1,802.7	1,842.4	1,171.4	1,147.7	1,802.7	1,842.4	1,333.3	1,361.6	882.6	862.7	1,333.3	1,361.6	3,136.0	3,204.0	2,054.0	2,010.4	3,136.0	3,204.0
1999	1,807.5	1,769.8	1,196.3	1,162.0	1,807.5	1,769.8	1,456.5	1,430.2	893.7	866.0	1,456.5	1,430.2	3,264.0	3,200.0	2,090.0	2,028.1	3,264.0	3,200.0
2000	1,923.5	1,862.2	1,273.3	1,215.6	1,923.5	1,862.2	1,470.5	1,427.8	1,046.7	937.0	1,470.5	1,427.8	3,394.0	3,290.0	2,320.0	2,152.6	3,394.0	3,290.0
2001	1,871.1	1,878.2	1,201.2	1,206.6	1,871.1	1,878.2	1,480.9	1,482.8	951.8	961.4	1,480.9	1,482.8	3,352.0	3,361.0	2,153.0	2,168.1	3,352.0	3,361.0
2002	1,815.8	1,789.9	1,179.5	1,203.7	1,815.8	1,789.9	1,542.2	1,521.1	925.5	968.5	1,542.2	1,521.1	3,358.0	3,311.0	2,105.0	2,172.2	3,358.0	3,311.0
2003	2,027.7	1,908.9	1,250.2	1,240.2	2,027.7	1,908.9	1,612.3	1,527.1	1,017.8	1,001.9	1,612.3	1,527.1	3,640.0	3,436.0	2,268.0	2,242.1	3,640.0	3,436.0
2004	1,827.6	1,876.1	1,293.8	1,279.9	1,827.6	1,876.1	1,556.4	1,655.9	1,076.1	1,071.5	1,556.4	1,655.9	3,384.0	3,532.0	2,369.9	2,351.4	3,384.0	3,532.0
2005	1,844.0	1,859.1	1,384.9	1,361.0	1,844.0	1,859.1	1,668.0	1,712.9	1,178.1	1,138.0	1,668.0	1,712.9	3,512.0	3,572.0	2,563.0	2,499.0	3,512.0	3,572.0
2006	1,960.4	1,937.7	1,279.7	1,352.4	1,960.4	1,937.7	1,760.6	1,735.3	1,104.3	1,146.0	1,760.6	1,735.3	3,721.0	3,673.0	2,384.0	2,498.4	3,721.0	3,673.0
2007		1,947.5		1,390.7		1,947.5		1,748.5		1,184.7		1,748.5		3,696.0		2,575.4		3,696.0
2008		1,980.1		1,409.7		1,980.1		1,779.4		1,210.1		1,779.4		3,759.5		2,619.8		3,759.5
2009		1,999.5		1,439.3		1,999.5		1,803.3		1,243.7		1,803.3		3,802.9		2,683.1		3,802.9
2010		2,012.7		1,467.7		2,012.7		1,824.8		1,277.1		1,824.8		3,837.4		2,744.8		3,837.4
2011		2,025.1		1,494.8		2,025.1		1,845.0		1,308.0		1,845.0		3,870.1		2,802.8		3,870.1
2012		2,040.4		1,522.6		2,040.4		1,866.8		1,338.7		1,866.8		3,907.2		2,861.2		3,907.2
2013		2,056.7		1,553.8		2,056.7		1,890.3		1,374.0		1,890.3		3,947.0		2,927.8		3,947.0
2014		2,076.8		1,585.9		2,076.8		1,917.9		1,407.2		1,917.9		3,994.8		2,993.1		3,994.8
2015		2,095.0		1,612.7		2,095.0		1,939.4		1,437.5		1,939.4		4,034.4		3,050.2		4,034.4
2016		2,108.7		1,640.0		2,108.7		1,961.8		1,470.7		1,961.8		4,070.5		3,110.8		4,070.5
2017		2,120.0		1,661.2		2,120.0		1,980.9		1,494.0		1,980.9		4,100.8		3,155.2		4,100.8
2018		2,128.6		1,683.4		2,128.6		1,998.9		1,525.0		1,998.9		4,127.4		3,208.4		4,127.4
2019		2,142.2		1,710.7		2,142.2		2,022.9		1,555.1		2,022.9		4,165.1		3,265.8		4,165.1
2020		2,157.1		1,733.6		2,157.1		2,044.0		1,582.8		2,044.0		4,201.1		3,316.5		4,201.1
2021		2,165.7		1,751.5		2,165.7		2,061.7		1,607.7		2,061.7		4,227.3		3,359.3		4,227.3
2022		2,171.9		1,764.7		2,171.9		2,075.7		1,624.4		2,075.7		4,247.6		3,389.1		4,247.6
2023		2,176.9		1,780.7		2,176.9		2,091.9		1,651.3		2,091.9		4,268.8		3,431.9		4,268.8
2024		2,189.1		1,804.3		2,189.1		2,116.0		1,679.6		2,116.0		4,305.1		3,483.9		4,305.1
2025		2,204.2		1,824.9		2,204.2		2,140.8		1,706.2		2,140.8		4,345.0		3,531.1		4,345.0
2026		2,217.4		1,844.4		2,217.4		2,161.2		1,730.8		2,161.2		4,378.6		3,575.2		4,378.6
2027		2,230.9		1,864.7		2,230.9		2,185.7		1,758.0		2,185.7		4,416.6		3,622.7		4,416.6
2028		2,246.6		1,887.3		2,246.6		2,211.8		1,785.3		2,211.8		4,458.4		3,672.6		4,458.4
2029		2,262.0		1,907.5		2,262.0		2,234.8		1,808.8		2,234.8		4,496.8		3,716.3		4,496.8
2030		2,273.3		1,926.4		2,273.3		2,255.6		1,833.8		2,255.6		4,528.9		3,760.3		4,528.9
90-'06	1.1%	0.9%	1.8%	2.1%	1.1%	0.9%	3.3%	3.0%	3.4%	3.8%	3.3%	3.0%	2.1%	1.8%	2.5%	2.8%	2.1%	1.8%
07-'10		1.1%		1.8%		1.1%		1.4%		2.5%		1.4%		1.3%		2.1%		1.3%
10-'15		0.8%		1.9%		0.8%		1.2%		2.4%		1.2%		1.0%		2.1%		1.0%
15-'20		0.6%		1.5%		0.6%		1.1%		1.9%		1.1%		0.8%		1.7%		0.8%
20-'25		0.4%		1.0%		0.4%		0.9%		1.5%		0.9%		0.7%		1.3%		0.7%
25-'30		0.6%		1.1%		0.6%		1.1%		1.5%		1.1%		0.8%		1.3%		0.8%
07-'30		0.7%		1.4%		0.7%		1.1%		1.9%		1.1%		0.9%		1.7%		0.9%



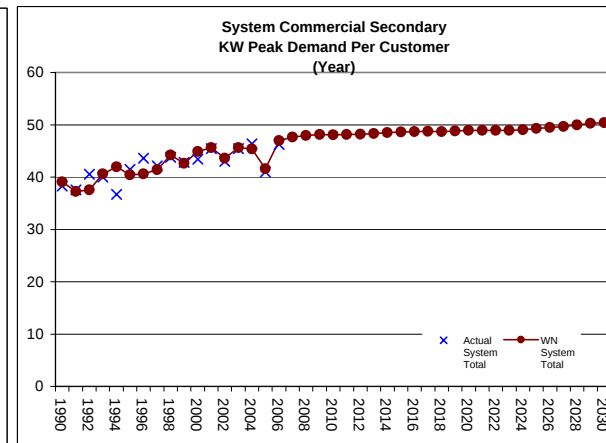
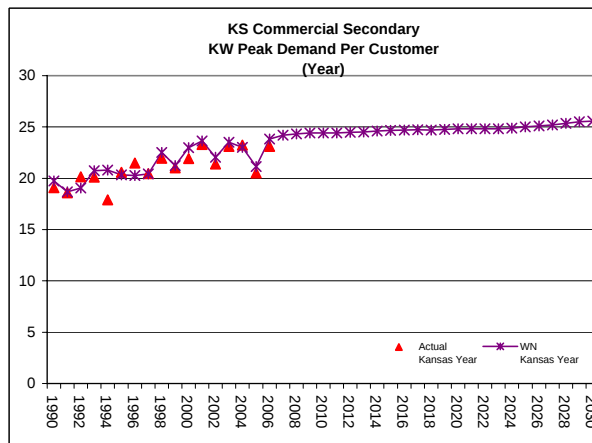
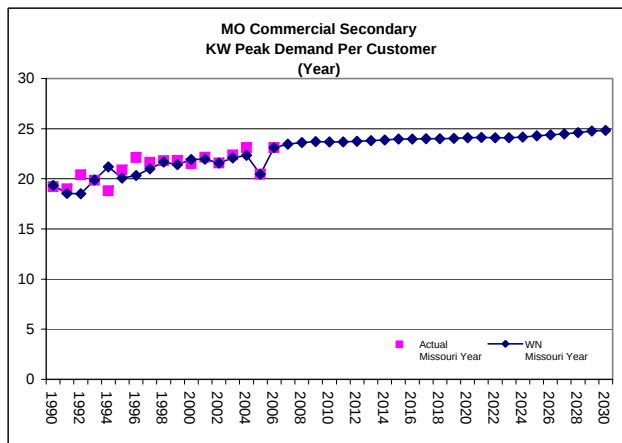
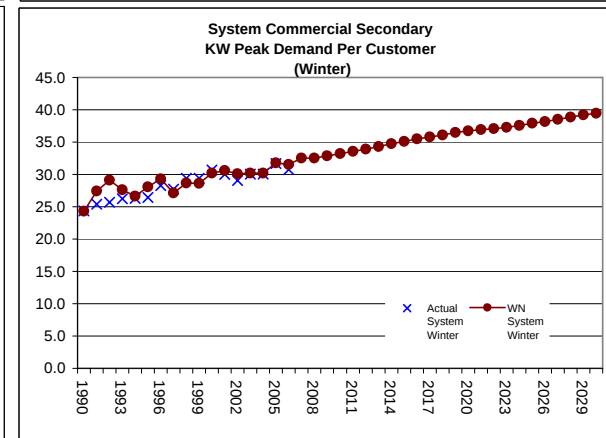
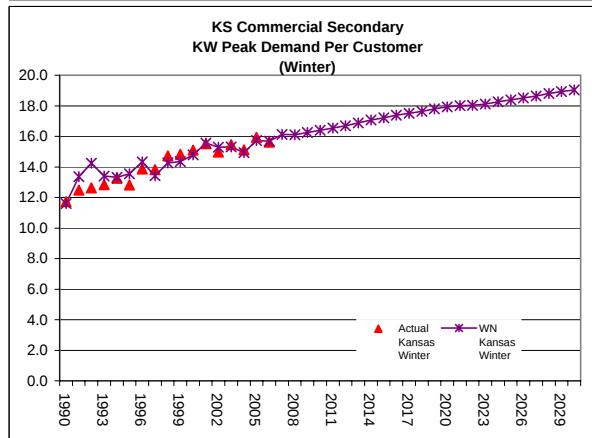
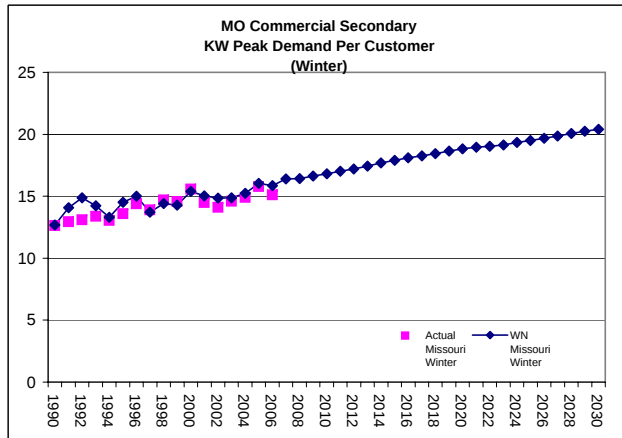
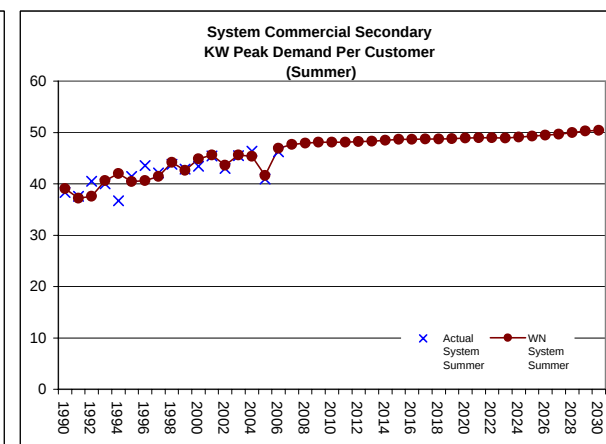
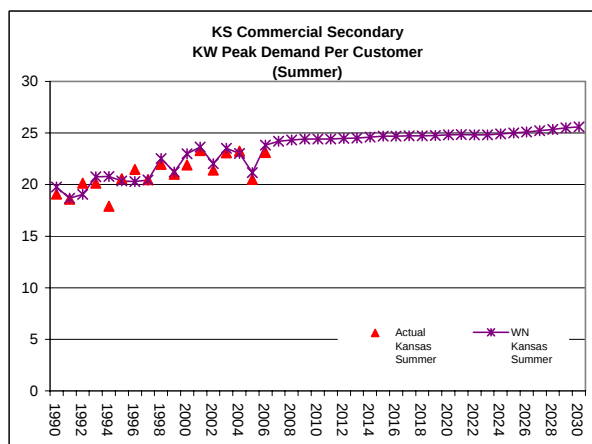
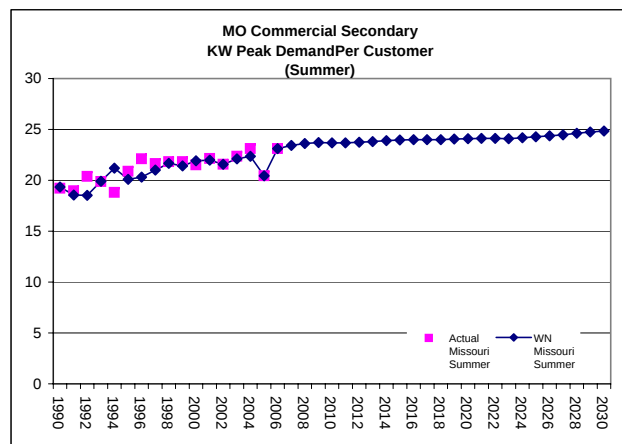
Plot I-11 Missouri & Kansas Residential KW Peak Demand Per Customer
(Actual vs. Weather Normalized)

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1990	3.41	3.56	1.57	1.54	3.41	3.56	4.35	4.50	2.48	2.39	4.35	4.50	7.76	8.07	4.05	3.92	7.76	8.07
1991	3.38	3.23	1.38	1.53	3.38	3.23	5.05	4.85	2.05	2.30	5.05	4.85	8.43	8.08	3.42	3.83	8.43	8.08
1992	2.73	3.74	1.38	1.60	2.73	3.74	3.76	4.76	1.99	2.40	3.76	4.76	6.49	8.49	3.36	4.00	6.49	8.49
1993	3.51	3.52	1.37	1.38	3.51	3.52	4.34	4.38	2.06	2.06	4.34	4.38	7.85	7.89	3.44	3.44	7.85	7.89
1994	2.96	3.09	1.51	1.49	2.96	3.09	4.32	4.51	2.28	2.26	4.32	4.51	7.28	7.59	3.80	3.75	7.28	7.59
1995	3.14	3.23	1.63	1.72	3.14	3.23	4.73	4.80	2.30	2.40	4.73	4.80	7.87	8.04	3.92	4.13	7.87	8.04
1996	2.83	3.20	1.64	1.67	2.83	3.20	4.41	4.80	2.52	2.54	4.41	4.80	7.24	8.00	4.15	4.21	7.24	8.00
1997	3.10	3.26	1.66	1.58	3.10	3.26	4.65	4.85	2.46	2.33	4.65	4.85	7.75	8.11	4.12	3.91	7.75	8.11
1998	3.38	3.55	1.73	1.72	3.38	3.55	4.28	4.39	2.55	2.53	4.28	4.39	7.66	7.93	4.29	4.25	7.66	7.93
1999	3.44	3.28	1.80	1.73	3.44	3.28	4.94	4.76	2.57	2.49	4.94	4.76	8.38	8.04	4.37	4.22	8.38	8.04
2000	4.04	3.57	2.13	1.84	4.04	3.57	4.67	4.27	3.20	2.69	4.67	4.27	8.71	7.84	5.33	4.53	8.71	7.84
2001	3.54	3.58	1.82	1.79	3.54	3.58	4.31	4.29	2.55	2.60	4.31	4.29	7.85	7.87	4.37	4.39	7.85	7.87
2002	3.40	3.24	1.79	1.85	3.40	3.24	4.76	4.56	2.45	2.64	4.76	4.56	8.16	7.80	4.24	4.48	8.16	7.80
2003	4.05	3.51	1.99	1.89	4.05	3.51	4.65	4.16	2.72	2.66	4.65	4.16	8.70	7.67	4.71	4.56	8.70	7.67
2004	2.85	3.35	2.04	2.05	2.85	3.35	4.17	4.76	2.84	2.87	4.17	4.76	7.02	8.11	4.88	4.91	7.02	8.11
2005	3.57	3.68	2.27	2.17	3.57	3.68	5.05	5.19	3.10	2.98	5.05	5.19	8.61	8.86	5.37	5.15	8.61	8.86
2006	3.54	3.34	2.04	2.21	3.54	3.34	4.92	4.71	2.74	2.97	4.92	4.71	8.45	8.05	4.78	5.18	8.45	8.05
2007		3.34		2.22		3.34		4.66		3.02		4.66		8.00		5.24		8.00
2008		3.33		2.24		3.33		4.62		3.03		4.62		7.95		5.27		7.95
2009		3.31		2.27		3.31		4.57		3.07		4.57		7.88		5.35		7.88
2010		3.30		2.31		3.30		4.54		3.11		4.54		7.83		5.42		7.83
2011		3.28		2.34		3.28		4.50		3.14		4.50		7.77		5.48		7.77
2012		3.26		2.36		3.26		4.46		3.17		4.46		7.72		5.53		7.72
2013		3.24		2.39		3.24		4.43		3.21		4.43		7.67		5.60		7.67
2014		3.23		2.42		3.23		4.41		3.24		4.41		7.64		5.66		7.64
2015		3.22		2.45		3.22		4.38		3.27		4.38		7.60		5.72		7.60
2016		3.22		2.48		3.22		4.36		3.30		4.36		7.58		5.78		7.58
2017		3.21		2.50		3.21		4.33		3.31		4.33		7.54		5.80		7.54
2018		3.19		2.52		3.19		4.31		3.34		4.31		7.50		5.86		7.50
2019		3.19		2.55		3.19		4.30		3.37		4.30		7.49		5.91		7.49
2020		3.19		2.57		3.19		4.28		3.39		4.28		7.47		5.96		7.47
2021		3.18		2.59		3.18		4.26		3.41		4.26		7.44		6.00		7.44
2022		3.16		2.60		3.16		4.23		3.41		4.23		7.40		6.01		7.40
2023		3.15		2.62		3.15		4.22		3.44		4.22		7.37		6.06		7.37
2024		3.16		2.65		3.16		4.22		3.47		4.22		7.38		6.12		7.38
2025		3.16		2.67		3.16		4.22		3.50		4.22		7.38		6.17		7.38
2026		3.17		2.70		3.17		4.22		3.52		4.22		7.39		6.22		7.39
2027		3.17		2.73		3.17		4.23		3.55		4.23		7.41		6.28		7.41
2028		3.18		2.76		3.18		4.25		3.58		4.25		7.43		6.34		7.43
2029		3.19		2.78		3.19		4.26		3.61		4.26		7.44		6.39		7.44
2030		3.19		2.81		3.19		4.26		3.64		4.26		7.45		6.44		7.45
90-'06	0.2%	-0.4%	1.7%	2.3%	0.2%	-0.4%	0.8%	0.3%	0.6%	1.4%	0.8%	0.3%	0.5%	0.0%	1.0%	1.7%	0.5%	0.0%
07-'10		-0.5%		1.2%		-0.5%		-0.9%		1.1%		-0.9%		-0.7%		1.1%		-0.7%
10-'15		-0.4%		1.2%		-0.4%		-0.7%		1.0%		-0.7%		-0.6%		1.1%		-0.6%
15-'20		-0.2%		1.0%		-0.2%		-0.5%		0.8%		-0.5%		-0.4%		0.9%		-0.4%
20-'25		-0.2%		0.8%		-0.2%		-0.3%		0.6%		-0.3%		-0.2%		0.7%		-0.2%
25-'30		0.2%		1.0%		0.2%		0.2%		0.8%		0.2%		0.2%		0.9%		0.2%
07-'30		-0.2%		1.0%		-0.2%		-0.4%		0.8%		-0.4%		-0.3%		0.9%		-0.3%



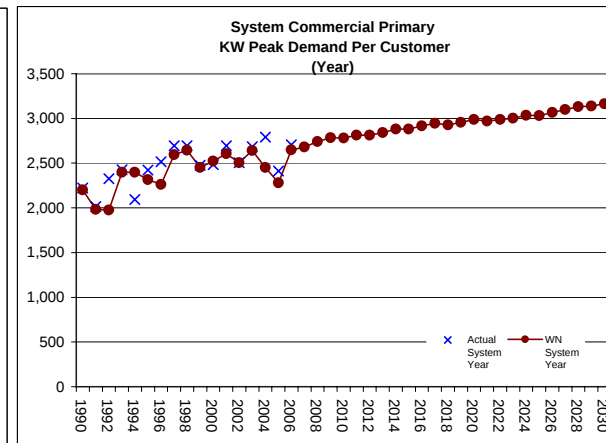
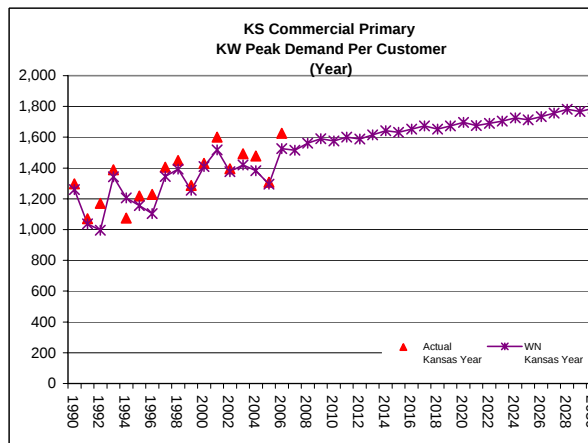
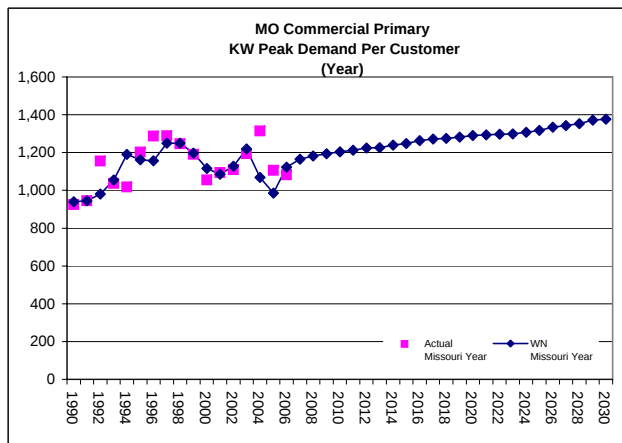
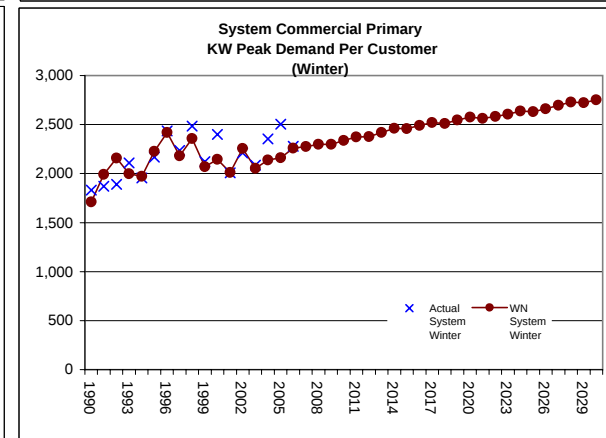
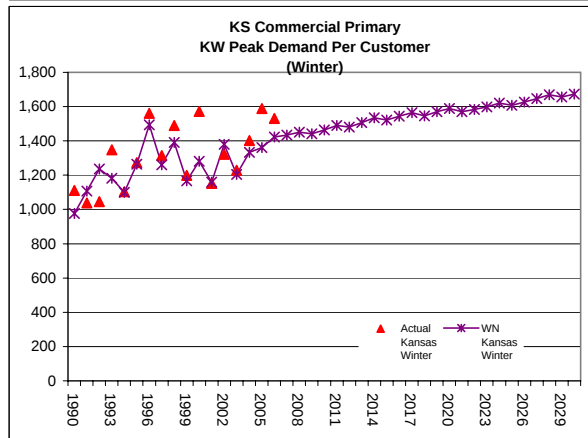
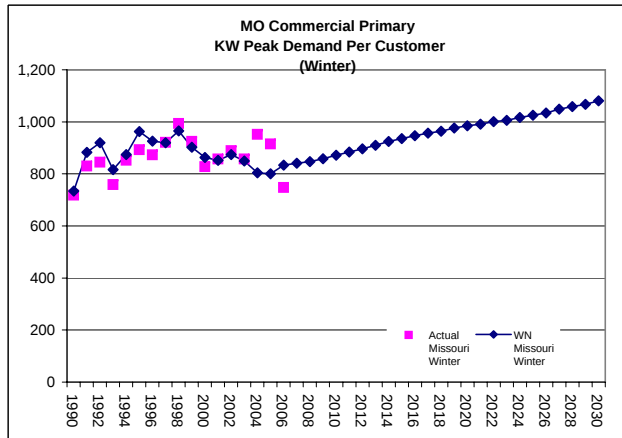
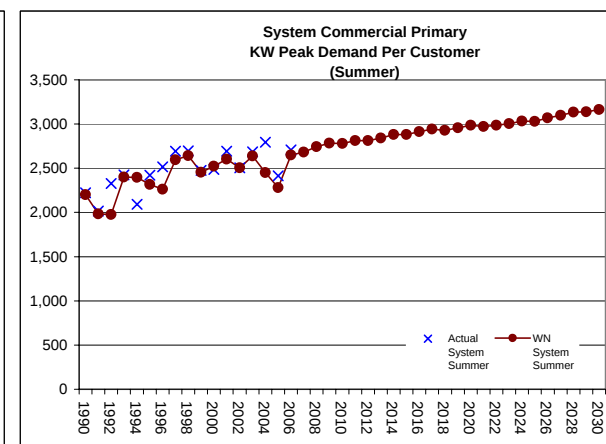
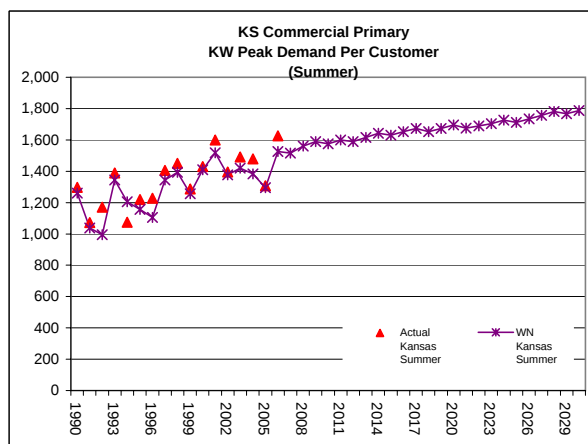
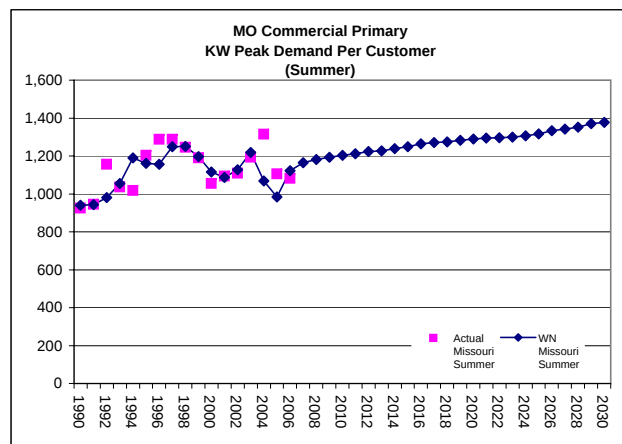
Plot I-12 Missouri & Kansas Commercial Secondary KW Peak Demand Per Customer
(Actual vs. Weather Normalized)

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Total	WN System Total
1990	19.2	19.3	12.6	12.7	19.2	19.3	19.1	19.7	11.7	11.6	19.1	19.7	38.3	39.1	24.4	24.3	38.3	39.1
1991	19.0	18.5	12.9	14.1	19.0	18.5	18.6	18.7	12.5	13.4	18.6	18.7	37.6	37.2	25.4	27.4	37.6	37.2
1992	20.4	18.5	13.1	14.9	20.4	18.5	20.1	19.1	12.6	14.2	20.1	19.1	40.5	37.6	25.7	29.1	40.5	37.6
1993	19.9	19.9	13.4	14.2	19.9	19.9	20.1	20.8	12.8	13.4	20.1	20.8	40.0	40.6	26.2	27.6	40.0	40.6
1994	18.8	21.2	13.0	13.3	18.8	21.2	17.9	20.8	13.3	13.3	17.9	20.8	36.7	42.0	26.3	26.6	36.7	42.0
1995	20.9	20.1	13.6	14.5	20.9	20.1	20.6	20.3	12.8	13.5	20.6	20.3	41.5	40.4	26.4	28.1	41.5	40.4
1996	22.1	20.3	14.4	15.0	22.1	20.3	21.5	20.3	13.9	14.3	21.5	20.3	43.6	40.6	28.2	29.3	43.6	40.6
1997	21.7	21.0	13.9	13.7	21.7	21.0	20.5	20.4	13.8	13.4	20.5	20.4	42.1	41.4	27.7	27.1	42.1	41.4
1998	21.8	21.7	14.7	14.4	21.8	21.7	22.0	22.5	14.7	14.3	22.0	22.5	43.8	44.2	29.4	28.7	43.8	44.2
1999	21.8	21.4	14.6	14.3	21.8	21.4	21.0	21.2	14.8	14.3	21.0	21.2	42.8	42.6	29.4	28.6	42.8	42.6
2000	21.5	21.9	15.6	15.4	21.5	21.9	21.9	23.0	15.1	14.8	21.9	23.0	43.4	44.9	30.7	30.2	43.4	44.9
2001	22.1	22.0	14.5	15.0	22.1	22.0	23.3	23.6	15.5	15.6	23.3	23.6	45.4	45.6	30.0	30.6	45.4	45.6
2002	21.6	21.6	14.1	14.8	21.6	21.6	21.4	22.0	15.0	15.3	21.4	22.0	43.0	43.6	29.1	30.1	43.0	43.6
2003	22.4	22.1	14.6	14.9	22.4	22.1	23.1	23.5	15.5	15.3	23.1	23.5	45.5	45.6	30.0	30.2	45.5	45.6
2004	23.1	22.3	14.9	15.2	23.1	22.3	23.2	23.0	15.1	14.9	23.2	23.0	46.3	45.4	30.0	30.2	46.3	45.4
2005	20.5	20.5	15.8	16.0	20.5	20.5	20.5	21.2	15.9	15.7	20.5	21.2	41.0	41.6	31.7	31.8	41.0	41.6
2006	23.1	23.1	15.1	15.9	23.1	23.1	23.1	23.8	15.6	15.7	23.1	23.8	46.2	46.9	30.7	31.6	46.2	46.9
2007		23.4		16.4		23.4		24.2		16.1		24.2		47.6		32.5		47.6
2008		23.6		16.4		23.6		24.3		16.1		24.3		47.9		32.5		47.9
2009		23.7		16.6		23.7		24.4		16.3		24.4		48.1		32.9		48.1
2010		23.7		16.8		23.7		24.4		16.4		24.4		48.1		33.2		48.1
2011		23.7		17.0		23.7		24.4		16.5		24.4		48.1		33.6		48.1
2012		23.7		17.2		23.7		24.5		16.7		24.5		48.2		33.9		48.2
2013		23.8		17.4		23.8		24.5		16.9		24.5		48.3		34.3		48.3
2014		23.9		17.7		23.9		24.6		17.1		24.6		48.5		34.8		48.5
2015		24.0		17.9		24.0		24.7		17.2		24.7		48.6		35.1		48.6
2016		24.0		18.1		24.0		24.7		17.4		24.7		48.7		35.5		48.7
2017		24.0		18.3		24.0		24.7		17.5		24.7		48.7		35.8		48.7
2018		24.0		18.4		24.0		24.7		17.6		24.7		48.7		36.1		48.7
2019		24.0		18.7		24.0		24.8		17.8		24.8		48.8		36.5		48.8
2020		24.1		18.8		24.1		24.8		17.9		24.8		48.9		36.7		48.9
2021		24.1		18.9		24.1		24.8		18.0		24.8		48.9		37.0		48.9
2022		24.1		19.0		24.1		24.8		18.0		24.8		48.9		37.1		48.9
2023		24.1		19.1		24.1		24.8		18.1		24.8		48.9		37.3		48.9
2024		24.2		19.3		24.2		24.9		18.3		24.9		49.1		37.6		49.1
2025		24.3		19.5		24.3		25.0		18.4		25.0		49.3		37.9		49.3
2026		24.4		19.7		24.4		25.1		18.5		25.1		49.5		38.2		49.5
2027		24.5		19.9		24.5		25.2		18.6		25.2		49.7		38.5		49.7
2028		24.6		20.1		24.6		25.3		18.8		25.3		50.0		38.9		50.0
2029		24.8		20.2		24.8		25.5		18.9		25.5		50.3		39.2		50.3
2030		24.8		20.4		24.8		25.6		19.0		25.6		50.4		39.4		50.4
90-'06	1.2%	1.1%	1.1%	1.4%	1.2%	1.1%	1.2%	1.2%	1.8%	1.9%	1.2%	1.2%	1.2%	1.2%	1.5%	1.6%	1.2%	1.2%
07-'10		0.3%		0.9%		0.3%		0.3%		0.6%		0.3%		0.3%		0.7%		0.3%
10-'15		0.2%		1.2%		0.2%		0.2%		1.0%		0.2%		0.2%		1.1%		0.2%
15-'20		0.1%		1.0%		0.1%		0.1%		0.8%		0.1%		0.1%		0.9%		0.1%
20-'25		0.2%		0.7%		0.2%		0.2%		0.5%		0.2%		0.2%		0.6%		0.2%
25-'30		0.5%		0.9%		0.5%		0.5%		0.7%		0.5%		0.5%		0.8%		0.5%
07-'30		0.3%		1.0%		0.3%		0.2%		0.7%		0.2%		0.2%		0.8%		0.2%



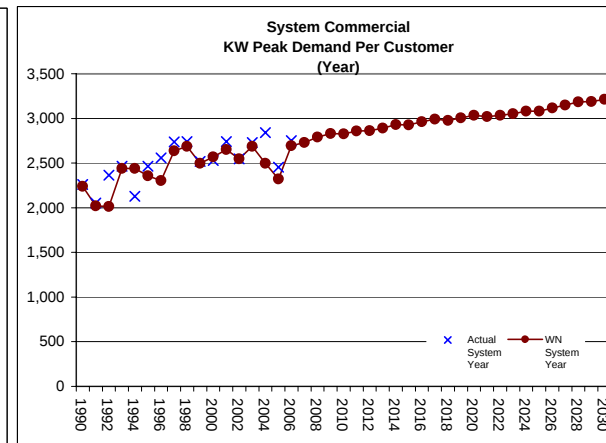
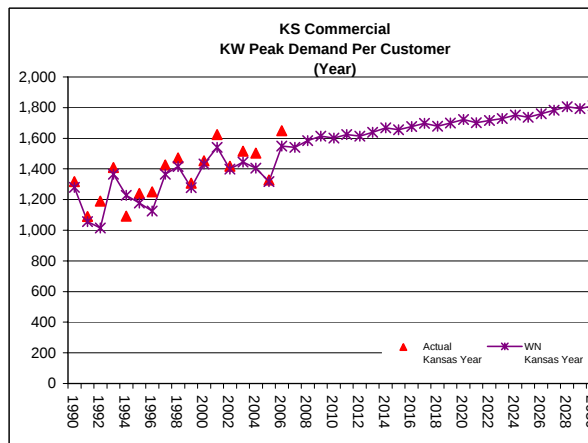
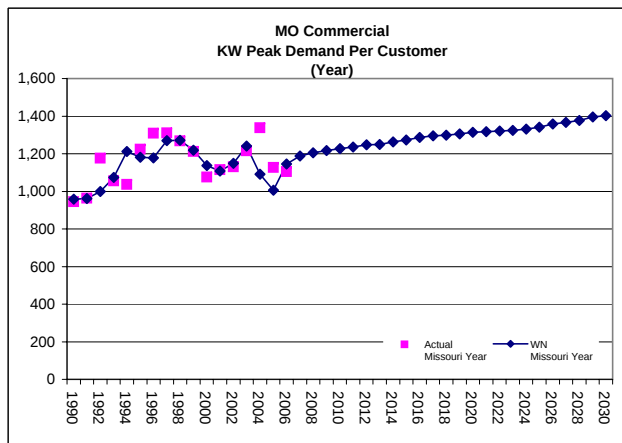
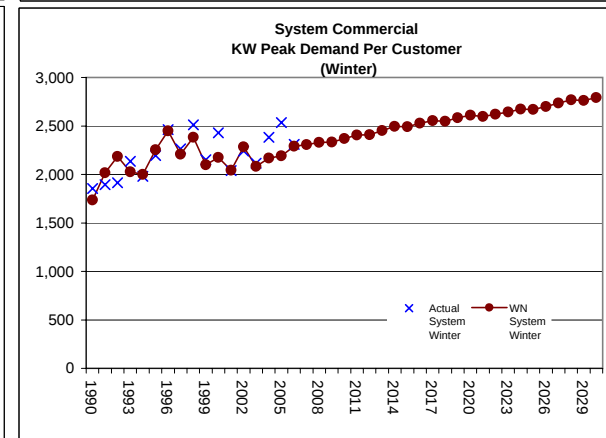
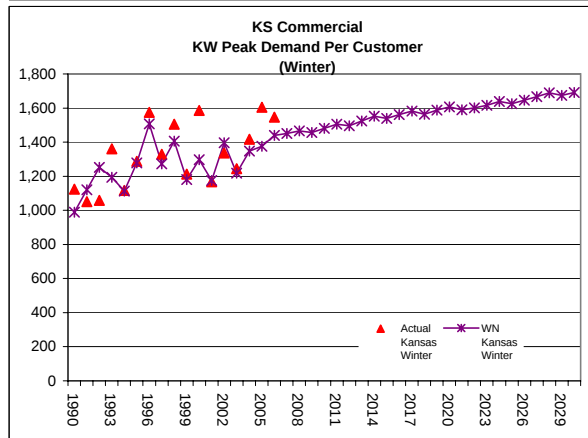
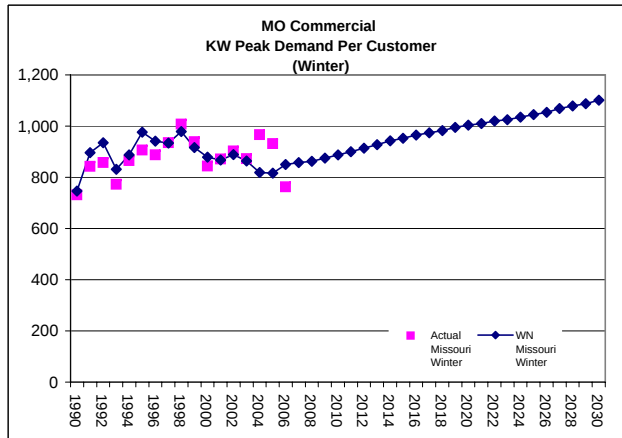
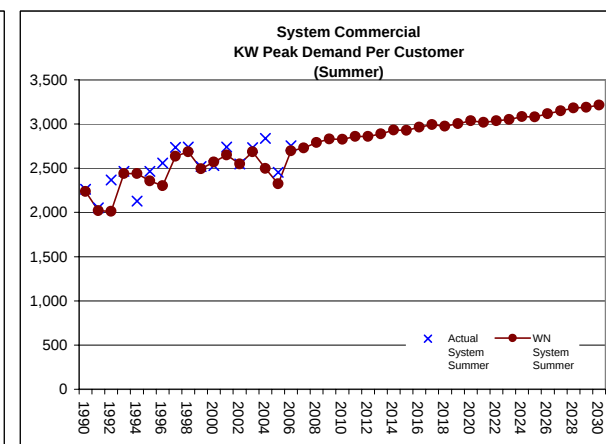
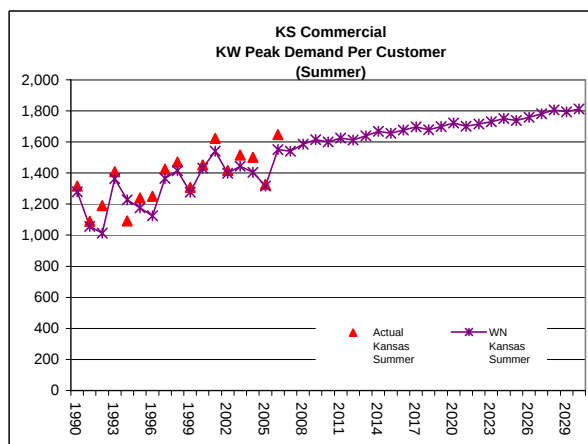
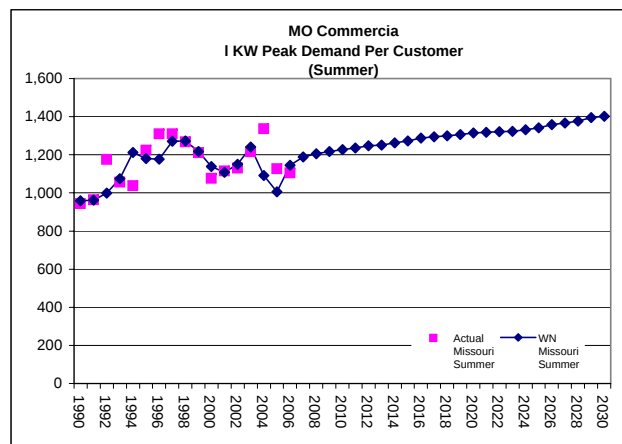
**Plot I-13 Missouri & Kansas Commercial Primary KW Peak Demand Per Customer
(Actual vs. Weather Normalized)**

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1990	924.9	939.7	718.4	734.1	924.9	939.7	1,297.8	1,259.8	1,111.7	976.7	1,297.8	1,259.8	2,222.7	2,199.5	1,830.1	1,710.8	2,222.7	2,199.5
1991	944.4	944.0	830.0	882.6	944.4	944.0	1,071.6	1,037.9	1,039.0	1,107.4	1,071.6	1,037.9	2,016.0	1,981.8	1,868.9	1,990.0	2,016.0	1,981.8
1992	1,155.4	980.7	844.2	919.8	1,155.4	980.7	1,170.2	995.3	1,045.6	1,236.8	1,170.2	995.3	2,325.5	1,976.0	1,889.7	2,156.6	2,325.5	1,976.0
1993	1,035.7	1,054.3	758.7	816.4	1,035.7	1,054.3	1,389.1	1,343.7	1,348.9	1,181.2	1,389.1	1,343.7	2,424.8	2,398.0	2,107.6	1,997.6	2,424.8	2,398.0
1994	1,018.0	1,190.5	851.4	873.6	1,018.0	1,190.5	1,073.9	1,205.9	1,104.1	1,099.2	1,073.9	1,205.9	2,092.0	2,396.5	1,955.5	1,972.8	2,092.0	2,396.5
1995	1,202.9	1,160.9	893.2	962.2	1,202.9	1,160.9	1,219.1	1,156.3	1,273.9	1,264.8	1,219.1	1,156.3	2,422.0	2,317.2	2,167.1	2,227.0	2,422.0	2,317.2
1996	1,287.0	1,156.9	873.0	925.7	1,287.0	1,156.9	1,228.2	1,104.9	1,561.6	1,493.8	1,228.2	1,104.9	2,515.2	2,261.8	2,434.6	2,419.6	2,515.2	2,261.8
1997	1,288.4	1,249.2	920.5	920.1	1,288.4	1,249.2	1,405.4	1,344.7	1,315.1	1,259.5	1,405.4	1,344.7	2,693.8	2,593.9	2,235.6	2,179.7	2,693.8	2,593.9
1998	1,246.0	1,250.4	992.9	964.9	1,246.0	1,250.4	1,449.6	1,392.6	1,490.7	1,390.9	1,449.6	1,392.6	2,695.6	2,643.0	2,483.6	2,355.8	2,695.6	2,643.0
1999	1,189.5	1,196.5	924.0	901.9	1,189.5	1,196.5	1,286.1	1,256.3	1,197.9	1,167.0	1,286.1	1,256.3	2,475.5	2,452.8	2,122.0	2,068.9	2,475.5	2,452.8
2000	1,054.0	1,115.7	827.6	863.5	1,054.0	1,115.7	1,431.0	1,408.8	1,571.5	1,281.4	1,431.0	1,408.8	2,485.0	2,524.5	2,399.1	2,144.9	2,485.0	2,524.5
2001	1,093.4	1,086.1	856.4	852.2	1,093.4	1,086.1	1,600.0	1,517.6	1,152.7	1,158.9	1,600.0	1,517.6	2,693.4	2,603.7	2,009.2	2,011.1	2,693.4	2,603.7
2002	1,109.2	1,127.9	888.5	873.9	1,109.2	1,127.9	1,395.7	1,377.0	1,321.7	1,380.7	1,395.7	1,377.0	2,504.9	2,504.9	2,210.2	2,254.6	2,504.9	2,504.9
2003	1,193.1	1,218.9	857.3	849.4	1,193.1	1,218.9	1,492.3	1,420.6	1,228.5	1,203.7	1,492.3	1,420.6	2,685.4	2,639.5	2,085.8	2,053.0	2,685.4	2,639.5
2004	1,314.0	1,068.7	951.4	803.5	1,314.0	1,068.7	1,478.9	1,382.0	1,402.0	1,333.5	1,478.9	1,382.0	2,792.9	2,450.7	2,353.4	2,137.0	2,792.9	2,450.7
2005	1,106.2	984.7	915.0	799.8	1,106.2	984.7	1,306.9	1,295.8	1,589.2	1,361.0	1,306.9	1,295.8	2,413.2	2,280.5	2,504.3	2,160.8	2,413.2	2,280.5
2006	1,081.3	1,121.8	747.1	834.1	1,081.3	1,121.8	1,625.5	1,526.2	1,531.0	1,423.2	1,625.5	1,526.2	2,706.8	2,648.0	2,278.1	2,257.4	2,706.8	2,648.0
2007		1,165.2		841.2		1,165.2		1,516.6		1,434.1		1,516.6		2,681.8			2,275.3	2,681.8
2008		1,181.1		846.6		1,181.1		1,560.8		1,450.3		1,560.8		2,742.0			2,296.9	2,742.0
2009		1,194.0		858.5		1,194.0		1,589.4		1,441.1		1,589.4		2,783.4			2,299.6	2,783.4
2010		1,203.3		871.2		1,203.3		1,575.9		1,464.8		1,575.9		2,779.2			2,336.0	2,779.2
2011		1,212.3		883.5		1,212.3		1,599.9		1,489.4		1,599.9		2,812.2			2,372.9	2,812.2
2012		1,223.5		896.0		1,223.5		1,588.8		1,480.0		1,588.8		2,812.3			2,375.9	2,812.3
2013		1,226.4		910.1		1,226.4		1,615.1		1,507.3		1,615.1		2,841.5			2,417.4	2,841.5
2014		1,238.6		924.4		1,238.6		1,643.3		1,535.4		1,643.3		2,881.9			2,459.8	2,881.9
2015		1,248.7		935.2		1,248.7		1,631.0		1,522.1		1,631.0		2,879.7			2,457.3	2,879.7
2016		1,263.5		946.9		1,263.5		1,651.9		1,544.9		1,651.9		2,915.4			2,491.7	2,915.4
2017		1,270.7		956.0		1,270.7		1,673.4		1,564.0		1,673.4		2,944.2			2,519.9	2,944.2
2018		1,274.9		964.2		1,274.9		1,653.2		1,546.8		1,653.2		2,928.1			2,511.0	2,928.1
2019		1,282.0		975.9		1,282.0		1,674.1		1,570.3		1,674.1		2,956.1			2,546.2	2,956.1
2020		1,290.1		984.6		1,290.1		1,696.5		1,589.7		1,696.5		2,986.6			2,574.2	2,986.6
2021		1,294.1		990.6		1,294.1		1,675.8		1,571.1		1,675.8		2,969.9			2,561.7	2,969.9
2022		1,296.9		1,000.4		1,296.9		1,690.2		1,582.9		1,690.2		2,987.1			2,583.2	2,987.1
2023		1,299.4		1,006.2		1,299.4		1,704.4		1,598.5		1,704.4		3,003.8			2,604.7	3,003.8
2024		1,307.1		1,016.3		1,307.1		1,725.9		1,620.8		1,725.9		3,033.0			2,637.1	3,033.0
2025		1,317.1		1,025.3		1,317.1		1,712.8		1,607.2		1,712.8		3,029.9			2,632.5	3,029.9
2026		1,333.4		1,033.8		1,333.4		1,734.5		1,626.9		1,734.5		3,067.9			2,660.7	3,067.9
2027		1,342.0		1,048.8		1,342.0		1,756.7		1,647.3		1,756.7		3,098.6			2,696.0	3,098.6
2028		1,352.1		1,058.8		1,352.1		1,781.0		1,670.1		1,781.0		3,133.0			2,729.0	3,133.0
2029		1,370.6		1,067.5		1,370.6		1,768.1		1,656.0		1,768.1		3,138.7			2,723.5	3,138.7
2030		1,377.3		1,080.4		1,377.3		1,787.4		1,672.9		1,787.4		3,164.7			2,753.3	3,164.7
90-'06	1.0%	1.1%	0.2%	0.8%	1.0%	1.1%	1.4%	1.2%	2.0%	2.4%	1.4%	1.2%	1.2%	1.2%	1.4%	1.7%	1.2%	1.2%
07-'10		1.1%		1.2%		1.1%		1.3%		0.7%		1.3%		1.2%		0.9%		1.2%
10-'15		0.7%		1.4%		0.7%		0.7%		0.8%		0.7%		0.7%		1.0%		0.7%
15-'20		0.7%		1.0%		0.7%		0.8%		0.9%		0.8%		0.7%		0.9%		0.7%
20-'25		0.4%		0.8%		0.4%		0.2%		0.2%		0.2%		0.3%		0.4%		0.3%
25-'30		0.9%		1.1%		0.9%		0.9%		0.8%		0.9%		0.9%		0.9%		0.9%
07-'30		0.7%		1.1%		0.7%		0.7%		0.7%		0.7%		0.7%		0.8%		0.7%



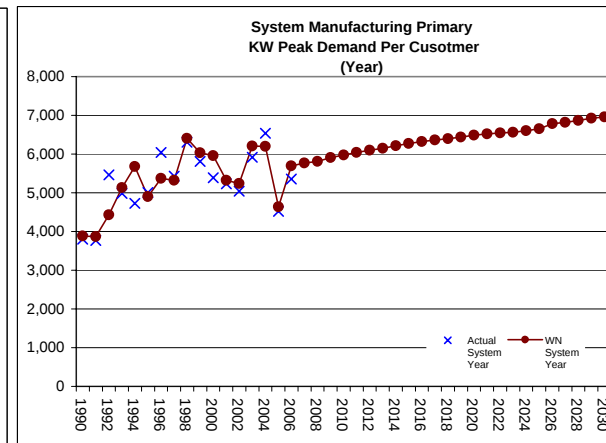
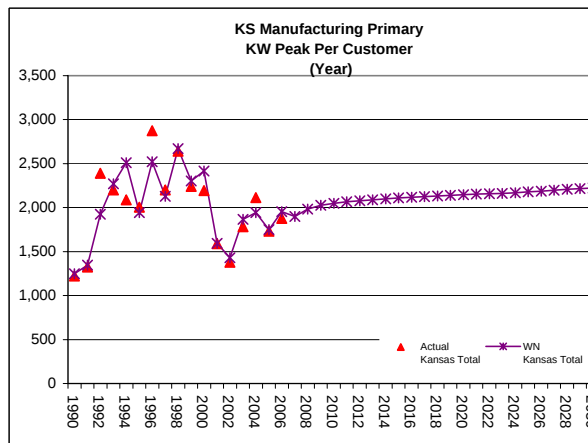
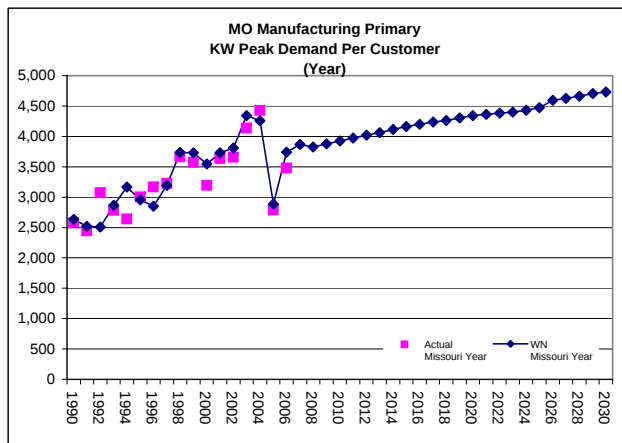
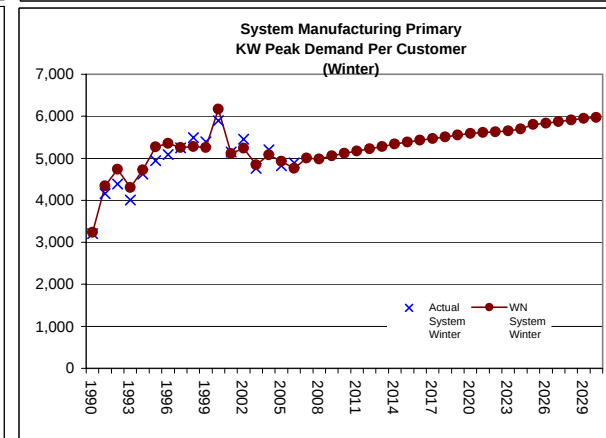
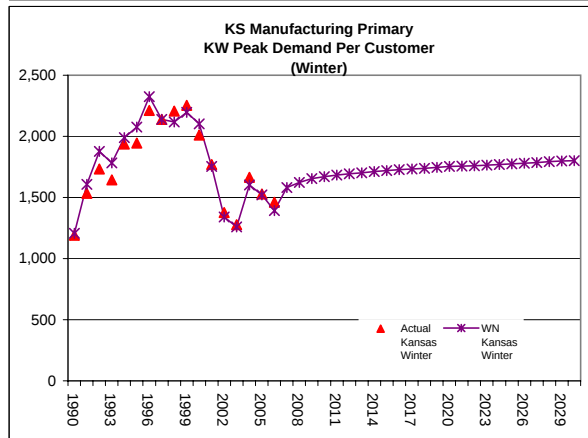
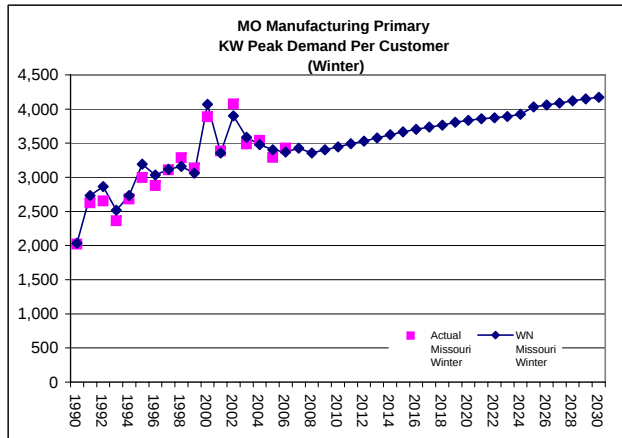
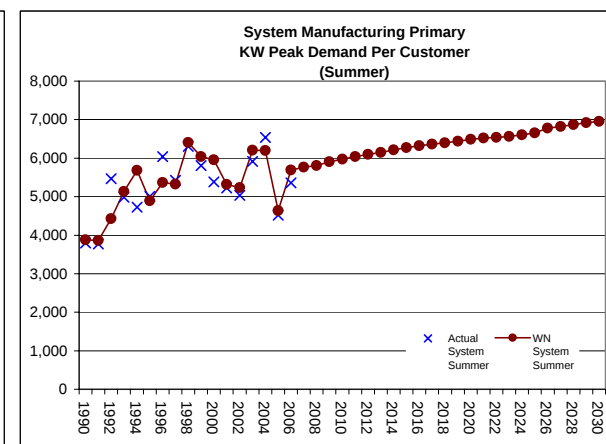
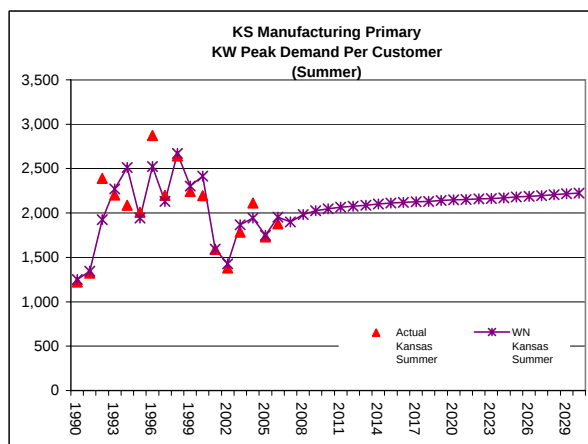
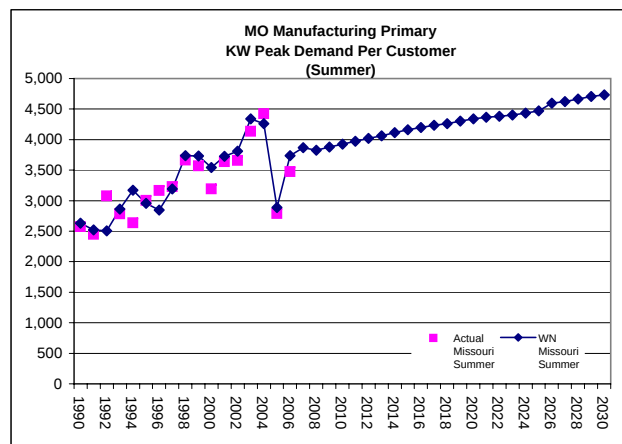
Plot I-14 Missouri & Kansas Commercial KW Peak Demand Per Customer
(Actual vs. Weather Normalized)

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1990	944.1	959.0	731.1	746.7	944.1	959.0	1,316.9	1,279.5	1,123.4	988.3	1,316.9	1,279.5	2,261.0	2,238.6	1,854.5	1,735.1	2,261.0	2,238.6
1991	963.3	962.5	842.9	896.7	963.3	962.5	1,090.2	1,056.6	1,051.4	1,120.8	1,090.2	1,056.6	2,053.6	2,019.0	1,894.4	2,017.4	2,053.6	2,019.0
1992	1,175.7	999.2	857.2	934.7	1,175.7	999.2	1,190.3	1,014.3	1,058.2	1,251.1	1,190.3	1,014.3	2,366.1	2,013.6	1,915.4	2,185.8	2,366.1	2,013.6
1993	1,055.6	1,074.2	772.1	830.7	1,055.6	1,074.2	1,409.2	1,364.5	1,361.7	1,194.6	1,409.2	1,364.5	2,464.8	2,438.7	2,133.8	2,025.2	2,464.8	2,438.7
1994	1,036.8	1,211.7	864.5	886.9	1,036.8	1,211.7	1,091.8	1,226.7	1,117.3	1,112.5	1,091.8	1,226.7	2,128.7	2,438.5	1,981.8	1,999.4	2,128.7	2,438.5
1995	1,223.8	1,181.0	906.8	976.7	1,223.8	1,181.0	1,239.6	1,176.7	1,286.8	1,278.3	1,239.6	1,176.7	2,463.4	2,357.6	2,193.5	2,255.1	2,463.4	2,357.6
1996	1,309.1	1,177.2	887.4	940.7	1,309.1	1,177.2	1,249.7	1,125.2	1,575.5	1,508.1	1,249.7	1,125.2	2,558.8	2,302.4	2,462.9	2,448.9	2,558.8	2,302.4
1997	1,310.1	1,270.2	934.4	933.9	1,310.1	1,270.2	1,425.9	1,365.1	1,328.9	1,272.9	1,425.9	1,365.1	2,735.9	2,635.3	2,263.3	2,206.8	2,735.9	2,635.3
1998	1,267.8	1,272.0	1,007.6	979.3	1,267.8	1,272.0	1,471.6	1,415.2	1,505.4	1,405.1	1,471.6	1,415.2	2,739.4	2,687.2	2,513.0	2,384.5	2,739.4	2,687.2
1999	1,211.3	1,217.9	938.6	916.2	1,211.3	1,217.9	1,307.1	1,277.6	1,212.8	1,181.4	1,307.1	1,277.6	2,518.4	2,495.4	2,151.4	2,097.5	2,518.4	2,495.4
2000	1,075.5	1,137.7	843.1	878.9	1,075.5	1,137.7	1,452.9	1,431.7	1,586.6	1,296.2	1,452.9	1,431.7	2,528.4	2,569.4	2,429.8	2,175.0	2,528.4	2,569.4
2001	1,115.5	1,108.1	870.9	867.2	1,115.5	1,108.1	1,623.3	1,541.3	1,168.3	1,174.5	1,623.3	1,541.3	2,738.8	2,649.3	2,039.2	2,041.7	2,738.8	2,649.3
2002	1,130.7	1,149.5	902.6	888.7	1,130.7	1,149.5	1,417.1	1,399.1	1,336.7	1,395.9	1,417.1	1,399.1	2,547.9	2,548.6	2,239.3	2,284.7	2,547.9	2,548.6
2003	1,215.5	1,241.0	871.9	864.3	1,215.5	1,241.0	1,515.4	1,444.2	1,244.0	1,219.0	1,515.4	1,444.2	2,730.9	2,685.2	2,115.9	2,083.2	2,730.9	2,685.2
2004	1,337.1	1,091.0	966.4	818.8	1,337.1	1,091.0	1,502.1	1,405.0	1,417.1	1,348.4	1,502.1	1,405.0	2,839.2	2,496.1	2,383.5	2,167.2	2,839.2	2,496.1
2005	1,126.7	1,005.1	930.8	815.9	1,126.7	1,005.1	1,327.5	1,317.0	1,605.2	1,376.7	1,327.5	1,317.0	2,454.1	2,322.1	2,536.0	2,192.6	2,454.1	2,322.1
2006	1,104.4	1,144.9	762.2	850.0	1,104.4	1,144.9	1,648.6	1,550.1	1,546.6	1,438.9	1,648.6	1,550.1	2,753.0	2,694.9	2,308.8	2,288.9	2,753.0	2,694.9
2007		1,188.6		857.6		1,188.6		1,540.8		1,450.2		1,540.8		2,729.4		2,307.8		2,729.4
2008		1,204.7		863.0		1,204.7		1,585.2		1,466.4		1,585.2		2,789.9		2,329.5		2,789.9
2009		1,217.7		875.1		1,217.7		1,613.9		1,457.3		1,613.9		2,831.6		2,332.5		2,831.6
2010		1,227.0		888.0		1,227.0		1,600.3		1,481.2		1,600.3		2,827.3		2,369.2		2,827.3
2011		1,236.0		900.6		1,236.0		1,624.3		1,505.9		1,624.3		2,860.3		2,406.5		2,860.3
2012		1,247.3		913.2		1,247.3		1,613.3		1,496.7		1,613.3		2,860.5		2,409.8		2,860.5
2013		1,250.2		927.5		1,250.2		1,639.6		1,524.2		1,639.6		2,889.8		2,451.7		2,889.8
2014		1,262.4		942.1		1,262.4		1,667.9		1,552.4		1,667.9		2,930.4		2,494.6		2,930.4
2015		1,272.6		953.1		1,272.6		1,655.7		1,539.3		1,655.7		2,928.3		2,492.4		2,928.3
2016		1,287.5		965.0		1,287.5		1,676.6		1,562.3		1,676.6		2,964.1		2,527.2		2,964.1
2017		1,294.8		974.2		1,294.8		1,698.1		1,581.5		1,698.1		2,992.9		2,555.7		2,992.9
2018		1,298.9		982.7		1,298.9		1,677.9		1,564.4		1,677.9		2,976.8		2,547.1		2,976.8
2019		1,306.1		994.6		1,306.1		1,698.8		1,588.1		1,698.8		3,004.9		2,582.6		3,004.9
2020		1,314.2		1,003.4		1,314.2		1,721.3		1,607.6		1,721.3		3,035.5		2,611.0		3,035.5
2021		1,318.2		1,009.6		1,318.2		1,700.6		1,589.1		1,700.6		3,018.8		2,598.7		3,018.8
2022		1,321.0		1,019.4		1,321.0		1,715.0		1,600.9		1,715.0		3,036.1		2,620.3		3,036.1
2023		1,323.5		1,025.4		1,323.5		1,729.2		1,616.6		1,729.2		3,052.7		2,642.0		3,052.7
2024		1,331.3		1,035.6		1,331.3		1,750.8		1,639.1		1,750.8		3,082.1		2,674.7		3,082.1
2025		1,341.4		1,044.8		1,341.4		1,737.8		1,625.6		1,737.8		3,079.2		2,670.4		3,079.2
2026		1,357.7		1,053.5		1,357.7		1,759.6		1,645.4		1,759.6		3,117.4		2,698.9		3,117.4
2027		1,366.4		1,068.6		1,366.4		1,781.9		1,665.9		1,781.9		3,148.3		2,734.5		3,148.3
2028		1,376.7		1,078.9		1,376.7		1,806.3		1,688.9		1,806.3		3,183.0		2,767.8		3,183.0
2029		1,395.4		1,087.8		1,395.4		1,793.6		1,674.9		1,793.6		3,189.0		2,762.7		3,189.0
2030		1,402.1		1,100.8		1,402.1		1,813.0		1,691.9		1,813.0		3,215.1		2,792.7		3,215.1
90-'06	1.0%	1.1%	0.3%	0.8%	1.0%	1.1%	1.4%	1.2%	2.0%	2.4%	1.4%	1.2%	1.2%	1.2%	1.4%	1.7%	1.2%	1.2%
07-'10		1.1%		1.2%		1.1%		1.3%		0.7%		1.3%		1.2%		0.9%		1.2%
10-'15		0.7%		1.4%		0.7%		0.7%		0.8%		0.7%		0.7%		1.0%		0.7%
15-'20		0.6%		1.0%		0.6%		0.8%		0.9%		0.8%		0.7%		0.9%		0.7%
20-'25		0.4%		0.8%		0.4%		0.2%		0.2%		0.2%		0.3%		0.5%		0.3%
25-'30		0.9%		1.0%		0.9%		0.9%		0.8%		0.9%		0.9%		0.9%		0.9%
07-'30		0.7%		1.1%		0.7%		0.7%		0.7%		0.7%		0.7%		0.8%		0.7%



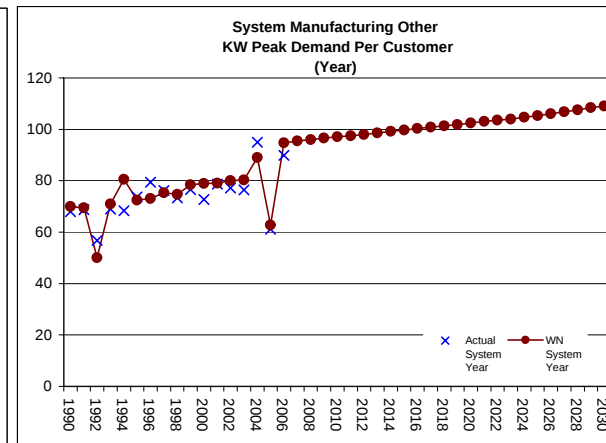
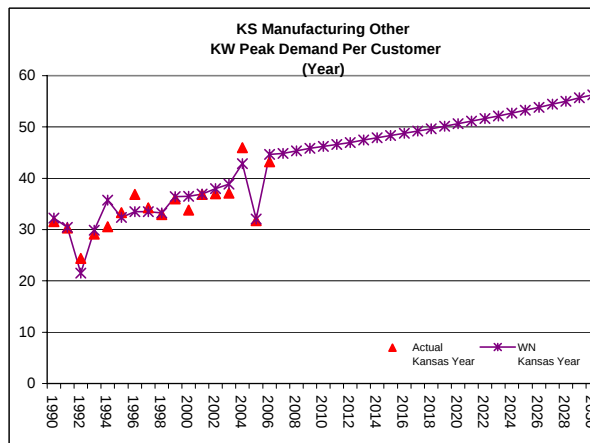
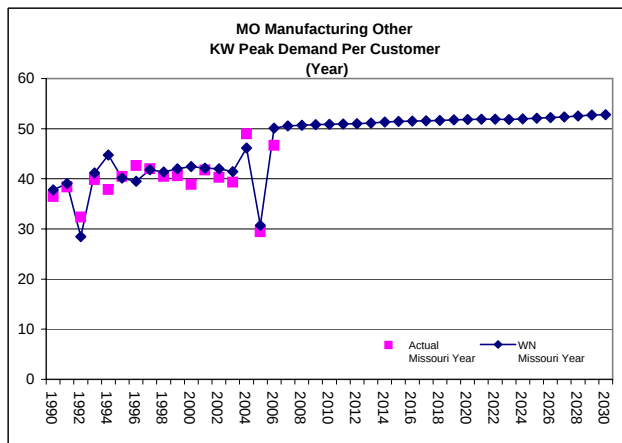
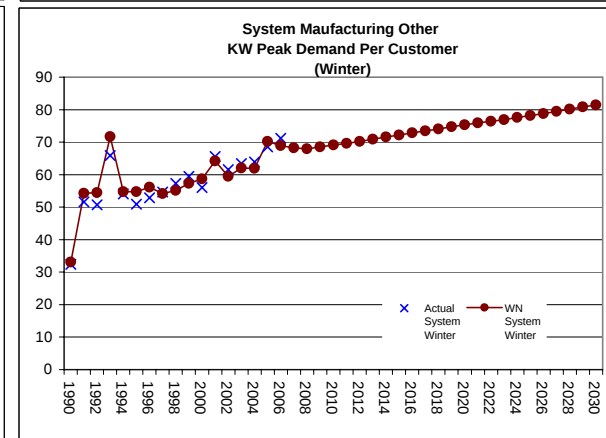
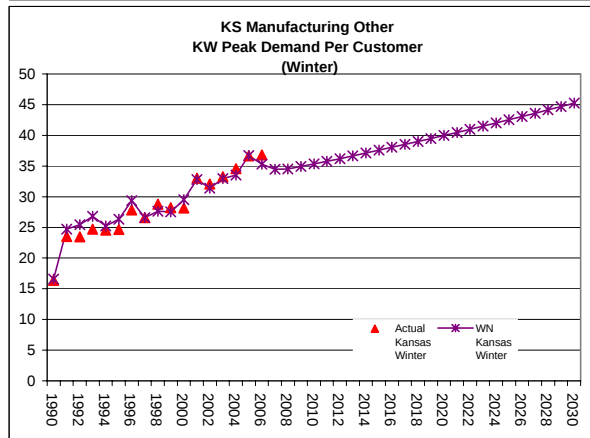
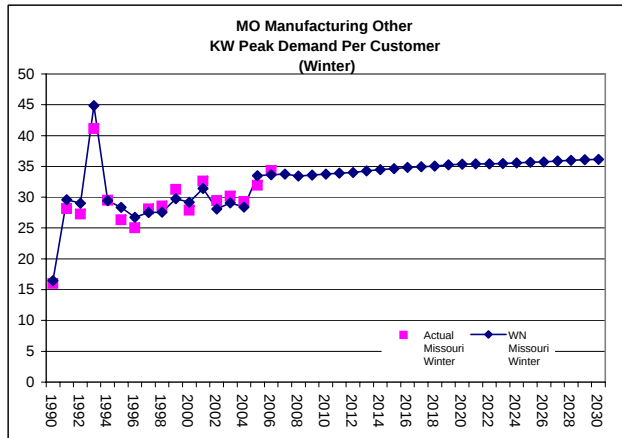
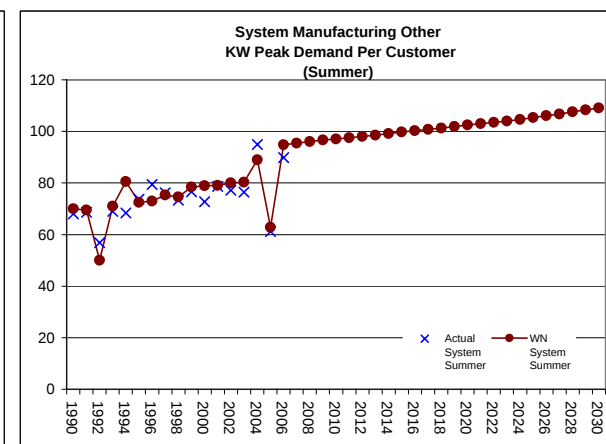
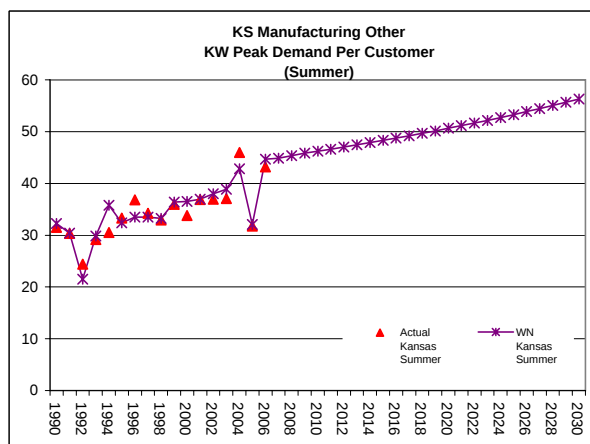
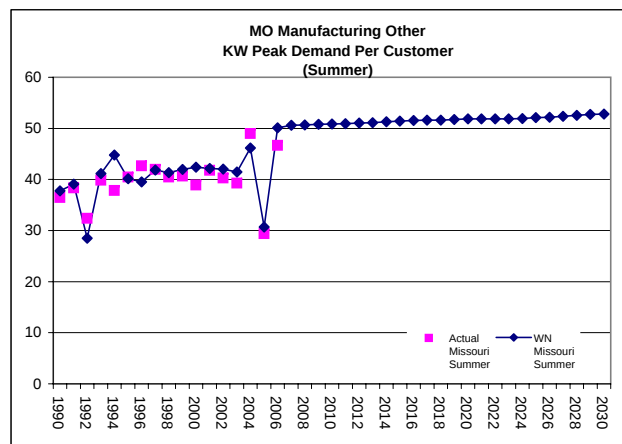
**Plot I-15 Missouri & Kansas Manufacturing Primary KW Peak Demand Per Customer
(Actual vs. Weather Normalized)**

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Total	WN Kansas Total	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1990	2,575.0	2,631.9	2,018.4	2,035.0	2,575.0	2,631.9	1,223.0	1,249.4	1,191.3	1,205.9	1,223.0	1,249.4	3,798.0	3,881.3	3,209.7	3,240.9	3,798.0	3,881.3
1991	2,447.2	2,519.7	2,622.9	2,732.1	2,447.2	2,519.7	1,323.5	1,344.7	1,533.4	1,608.5	1,323.5	1,344.7	3,770.7	3,864.4	4,156.3	4,340.6	3,770.7	3,864.4
1992	3,074.1	2,505.4	2,651.5	2,861.9	3,074.1	2,505.4	2,388.8	1,926.0	1,733.5	1,877.8	2,388.8	1,926.0	5,462.8	4,431.4	4,385.0	4,739.7	5,462.8	4,431.4
1993	2,782.9	2,864.1	2,362.3	2,518.5	2,782.9	2,864.1	2,201.4	2,270.1	1,642.7	1,782.3	2,201.4	2,270.1	4,984.3	5,134.3	4,005.0	4,300.9	4,984.3	5,134.3
1994	2,638.6	3,169.0	2,682.8	2,734.0	2,638.6	3,169.0	2,086.6	2,511.8	1,938.1	1,989.4	2,086.6	2,511.8	4,725.2	5,680.8	4,620.9	4,723.4	4,725.2	5,680.8
1995	3,003.9	2,955.6	2,996.7	3,193.4	3,003.9	2,955.6	2,006.0	1,941.5	1,945.4	2,076.8	2,006.0	1,941.5	5,009.9	4,897.1	4,942.2	5,270.1	5,009.9	4,897.1
1996	3,166.7	2,848.0	2,880.0	3,031.7	3,166.7	2,848.0	2,873.6	2,522.6	2,211.4	2,325.8	2,873.6	2,522.6	6,040.3	5,370.6	5,091.5	5,357.6	6,040.3	5,370.6
1997	3,226.7	3,192.7	3,108.7	3,116.3	3,226.7	3,192.7	2,199.8	2,128.9	2,137.6	2,138.2	2,199.8	2,128.9	5,426.5	5,321.6	5,246.3	5,254.5	5,426.5	5,321.6
1998	3,663.0	3,735.0	3,287.6	3,157.8	3,663.0	3,735.0	2,643.0	2,671.5	2,207.7	2,117.7	2,643.0	2,671.5	6,306.0	6,406.5	5,495.3	5,275.4	6,306.0	6,406.5
1999	3,569.9	3,732.2	3,135.7	3,059.2	3,569.9	3,732.2	2,240.4	2,304.3	2,254.2	2,197.3	2,240.4	2,304.3	5,810.3	6,036.5	5,389.9	5,256.5	5,810.3	6,036.5
2000	3,191.6	3,544.1	3,885.6	4,069.0	3,191.6	3,544.1	2,194.3	2,414.4	2,011.5	2,103.1	2,194.3	2,414.4	5,385.9	5,958.5	5,897.1	6,172.2	5,385.9	5,958.5
2001	3,637.9	3,728.1	3,382.4	3,355.1	3,637.9	3,728.1	1,591.0	1,592.7	1,769.5	1,754.3	1,591.0	1,592.7	5,228.9	5,320.9	5,151.9	5,109.4	5,228.9	5,320.9
2002	3,657.0	3,809.0	4,075.5	3,897.9	3,657.0	3,809.0	1,380.6	1,428.7	1,378.2	1,341.2	1,380.6	1,428.7	5,037.5	5,237.7	5,453.7	5,239.2	5,037.5	5,237.7
2003	4,134.5	4,340.7	3,485.4	3,586.8	4,134.5	4,340.7	1,784.5	1,867.5	1,278.1	1,259.7	1,784.5	1,867.5	5,919.0	6,208.2	4,763.5	4,846.4	5,919.0	6,208.2
2004	4,425.0	4,258.8	3,539.1	3,476.2	4,425.0	4,258.8	2,112.8	1,941.3	1,664.2	1,603.1	2,112.8	1,941.3	6,537.9	6,200.1	5,203.3	5,079.3	6,537.9	6,200.1
2005	2,786.8	2,885.9	3,292.6	3,405.1	2,786.8	2,885.9	1,731.4	1,749.4	1,529.6	1,521.1	1,731.4	1,749.4	4,518.3	4,635.3	4,822.1	4,926.2	4,518.3	4,635.3
2006	3,477.3	3,738.3	3,427.6	3,370.2	3,477.3	3,738.3	1,877.8	1,954.6	1,461.0	1,391.9	1,877.8	1,954.6	5,355.1	5,692.9	4,888.6	4,762.1	5,355.1	5,692.9
2007		3,865.6		3,425.0		3,865.6		1,900.8		1,581.8		1,900.8		5,766.4		5,006.7		5,766.4
2008		3,827.6		3,357.3		3,827.6		1,982.4		1,622.3		1,982.4		5,810.0		4,979.7		5,810.0
2009		3,879.5		3,402.8		3,879.5		2,025.7		1,653.9		2,025.7		5,905.3		5,056.7		5,905.3
2010		3,926.7		3,446.5		3,926.7		2,048.7		1,671.3		2,048.7		5,975.4		5,117.8		5,975.4
2011		3,973.3		3,491.0		3,973.3		2,064.8		1,683.5		2,064.8		6,038.1		5,174.6		6,038.1
2012		4,018.1		3,529.0		4,018.1		2,077.6		1,693.1		2,077.6		6,095.7		5,222.1		6,095.7
2013		4,062.7		3,576.6		4,062.7		2,087.8		1,702.7		2,087.8		6,150.5		5,279.3		6,150.5
2014		4,114.9		3,625.2		4,114.9		2,100.5		1,712.4		2,100.5		6,215.4		5,337.6		6,215.4
2015		4,160.6		3,663.4		4,160.6		2,110.7		1,720.4		2,110.7		6,271.4		5,383.8		6,271.4
2016		4,200.1		3,704.0		4,200.1		2,118.4		1,728.4		2,118.4		6,318.5		5,432.4		6,318.5
2017		4,236.8		3,734.5		4,236.8		2,126.0		1,733.9		2,126.0		6,362.8		5,468.5		6,362.8
2018		4,263.6		3,764.2		4,263.6		2,131.1		1,739.3		2,131.1		6,394.7		5,503.5		6,394.7
2019		4,302.4		3,805.6		4,302.4		2,139.6		1,747.3		2,139.6		6,442.0		5,553.0		6,442.0
2020		4,340.4		3,835.8		4,340.4		2,148.1		1,753.8		2,148.1		6,488.5		5,589.6		6,488.5
2021		4,364.0		3,857.9		4,364.0		2,153.2		1,757.6		2,153.2		6,517.2		5,615.5		6,517.2
2022		4,383.6		3,871.2		4,383.6		2,158.3		1,759.8		2,158.3		6,541.9		5,631.0		6,541.9
2023		4,402.0		3,889.8		4,402.0		2,161.7		1,763.5		2,161.7		6,563.7		5,653.4		6,563.7
2024		4,433.2		3,923.9		4,433.2		2,170.2		1,769.9		2,170.2		6,603.4		5,693.8		6,603.4
2025		4,471.6		4,031.7		4,471.6		2,179.6		1,775.6		2,179.6		6,651.1		5,807.3		6,651.1
2026		4,593.8		4,057.8		4,593.8		2,188.0		1,780.4		2,188.0		6,781.9		5,838.2		6,781.9
2027		4,625.2		4,086.9		4,625.2		2,195.7		1,786.1		2,195.7		6,820.9		5,873.0		6,820.9
2028		4,664.8		4,120.0		4,664.8		2,206.7		1,792.6		2,206.7		6,871.5		5,912.6		6,871.5
2029		4,705.6		4,150.8		4,705.6		2,216.9		1,798.3		2,216.9		6,922.5		5,949.1		6,922.5
2030		4,731.7		4,170.6		4,731.7		2,224.6		1,802.3		2,224.6		6,956.2		5,972.8		6,956.2
90-'06	1.9%	2.2%	3.4%	3.2%	1.9%	2.2%	2.7%	2.8%	1.3%	0.9%	2.7%	2.8%	2.2%	2.4%	2.7%	2.4%	2.2%	2.4%
07-'10		0.5%		0.2%		0.5%		2.5%		1.9%		2.5%		1.2%		0.7%		1.2%
10-'15		1.2%		1.2%		1.2%		0.6%		0.6%		0.6%		1.0%		1.0%		1.0%
15-'20		0.8%		0.9%		0.8%		0.4%		0.4%		0.4%		0.7%		0.8%		0.7%
20-'25		0.6%		1.0%		0.6%		0.3%		0.2%		0.3%		0.5%		0.8%		0.5%
25-'30		1.1%		0.7%		1.1%		0.4%		0.3%		0.4%		0.9%		0.6%		0.9%
07-'30		0.9%		0.9%		0.9%		0.7%		0.6%		0.7%		0.8%		0.8%		0.8%



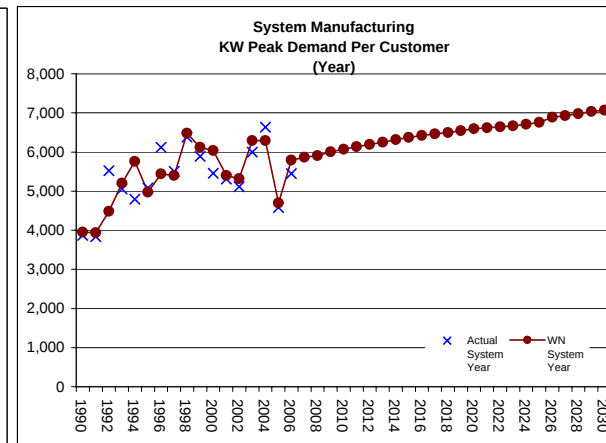
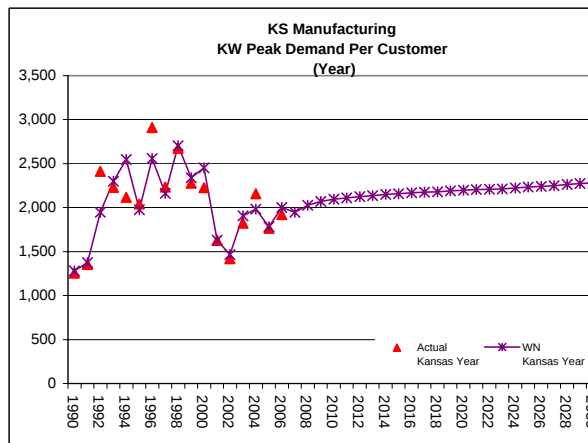
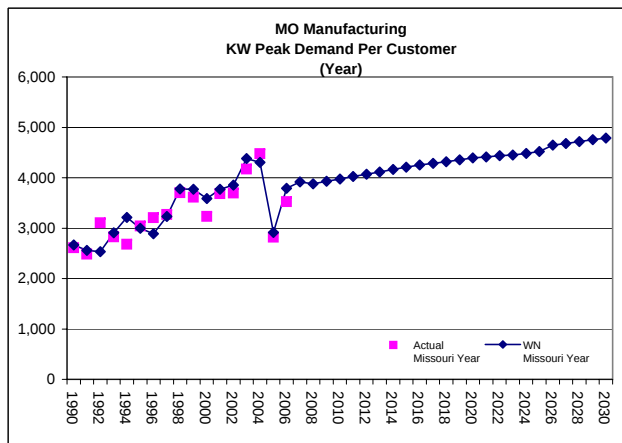
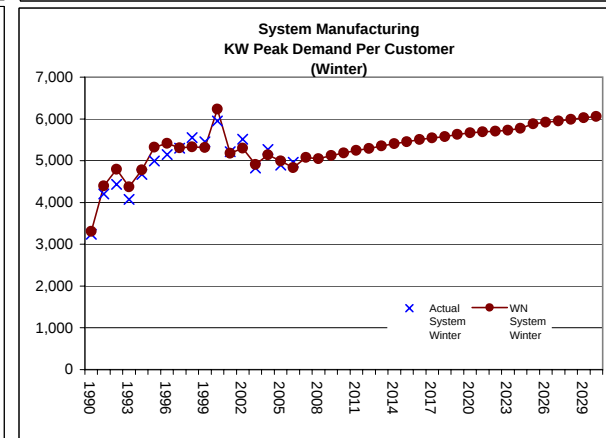
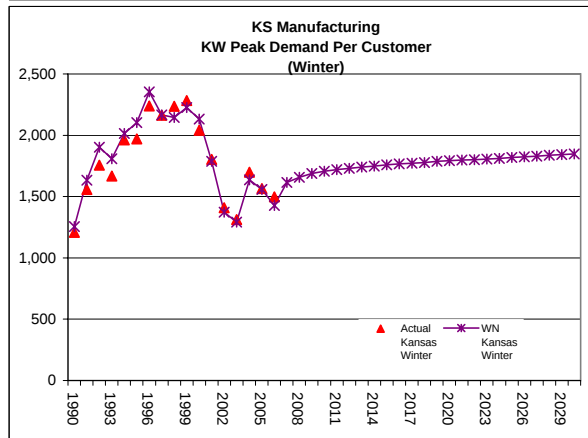
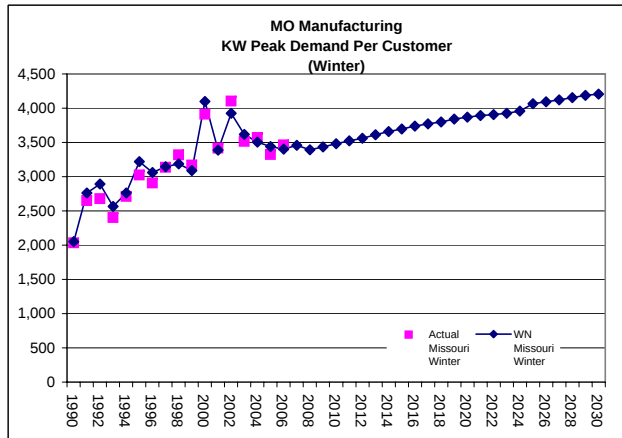
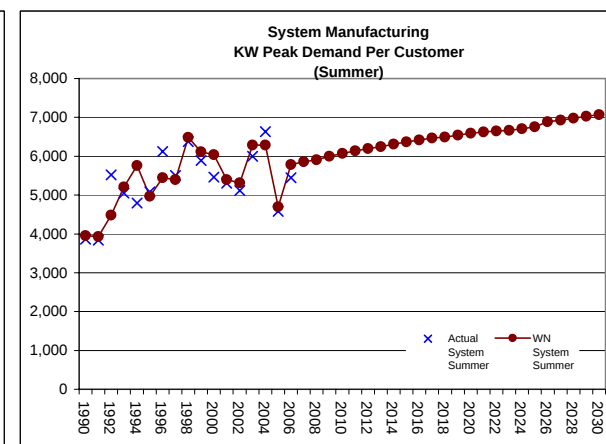
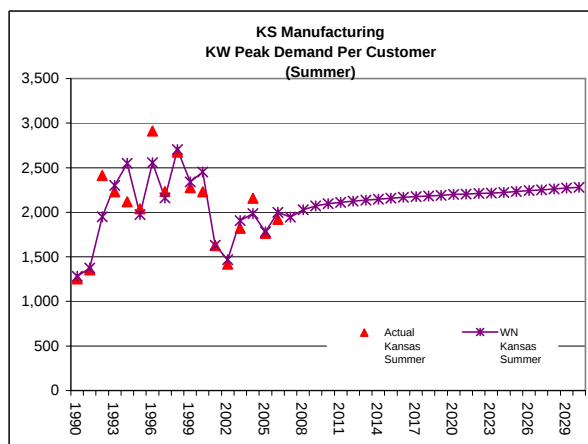
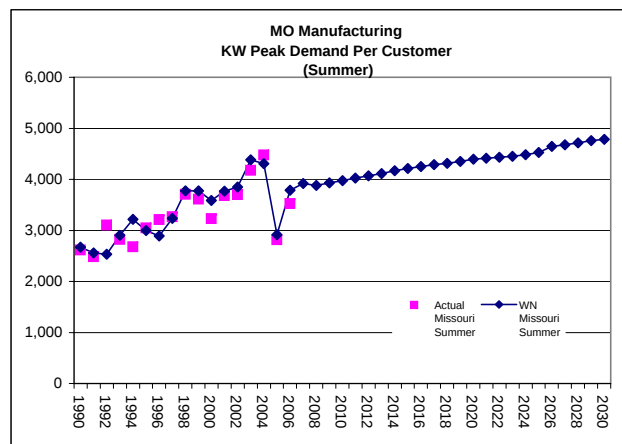
Plot I-16 Missouri & Kansas Manufacturing Other KW Peak Demand Per Customer
(Actual vs. Weather Normalized)

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1990	36.4	37.8	16.0	16.4	36.4	37.8	31.5	32.3	16.4	16.6	31.5	32.3	68.0	70.0	32.4	33.0	68.0	70.0
1991	38.3	39.1	28.1	29.6	38.3	39.1	30.3	30.4	23.5	24.7	30.3	30.4	68.7	69.5	51.6	54.3	68.7	69.5
1992	32.4	28.5	27.2	29.0	32.4	28.5	24.4	21.5	23.5	25.5	24.4	21.5	56.8	50.0	50.7	54.5	56.8	50.0
1993	39.8	41.1	41.1	44.9	39.8	41.1	29.2	29.9	24.7	26.8	29.2	29.9	69.0	71.0	65.8	71.7	69.0	71.0
1994	37.8	44.8	29.5	29.5	37.8	44.8	30.5	35.8	24.6	25.2	30.5	35.8	68.4	80.5	54.1	54.7	68.4	80.5
1995	40.5	40.1	26.3	28.4	40.5	40.1	33.3	32.4	24.6	26.3	33.3	32.4	73.7	72.5	51.0	54.7	73.7	72.5
1996	42.6	39.5	25.0	26.8	42.6	39.5	36.8	33.5	27.9	29.3	36.8	33.5	79.5	73.0	52.9	56.1	79.5	73.0
1997	42.0	41.8	28.1	27.5	42.0	41.8	34.3	33.5	26.6	26.6	34.3	33.5	76.2	75.3	54.7	54.1	76.2	75.3
1998	40.4	41.4	28.5	27.6	40.4	41.4	32.9	33.3	28.8	27.6	32.9	33.3	73.4	74.6	57.3	55.2	73.4	74.6
1999	40.6	42.0	31.2	29.7	40.6	42.0	36.0	36.4	28.2	27.6	36.0	36.4	76.6	78.4	59.5	57.3	76.6	78.4
2000	38.9	42.4	27.9	29.2	38.9	42.4	33.8	36.5	28.1	29.5	33.8	36.5	72.7	78.9	56.0	58.7	72.7	78.9
2001	41.8	42.1	32.6	31.4	41.8	42.1	36.9	36.9	33.0	32.8	36.9	36.9	78.6	79.1	65.6	64.2	78.6	79.1
2002	40.3	42.0	29.4	28.1	40.3	42.0	37.0	38.0	32.1	31.4	37.0	38.0	77.2	80.0	61.5	59.5	77.2	80.0
2003	39.3	41.4	30.2	29.1	39.3	41.4	37.1	38.8	33.3	33.0	37.1	38.8	76.4	80.3	63.4	62.0	76.4	80.3
2004	49.0	46.2	29.3	28.4	49.0	46.2	46.0	42.8	34.6	33.5	46.0	42.8	94.9	89.0	63.9	61.9	94.9	89.0
2005	29.4	30.7	31.9	33.5	29.4	30.7	31.8	32.1	36.7	36.7	31.8	32.1	61.2	62.8	68.6	70.2	61.2	62.8
2006	46.7	50.1	34.3	33.6	46.7	50.1	43.2	44.7	36.8	35.3	43.2	44.7	89.9	94.8	71.2	68.9	89.9	94.8
2007		50.6		33.7		50.6		44.9		34.4		44.9		95.4		68.2		95.4
2008		50.7		33.4		50.7		45.4		34.5		45.4		96.0		67.9		96.0
2009		50.8		33.6		50.8		45.8		34.9		45.8		96.6		68.5		96.6
2010		50.9		33.7		50.9		46.2		35.4		46.2		97.1		69.1		97.1
2011		50.9		33.9		50.9		46.6		35.8		46.6		97.5		69.6		97.5
2012		51.0		34.0		51.0		47.0		36.2		47.0		98.0		70.2		98.0
2013		51.1		34.2		51.1		47.4		36.7		47.4		98.6		70.9		98.6
2014		51.3		34.5		51.3		47.9		37.1		47.9		99.2		71.6		99.2
2015		51.4		34.6		51.4		48.3		37.6		48.3		99.7		72.2		99.7
2016		51.5		34.8		51.5		48.8		38.1		48.8		100.3		72.9		100.3
2017		51.6		34.9		51.6		49.2		38.5		49.2		100.8		73.5		100.8
2018		51.6		35.1		51.6		49.7		39.0		49.7		101.3		74.1		101.3
2019		51.7		35.3		51.7		50.1		39.5		50.1		101.9		74.7		101.9
2020		51.9		35.4		51.9		50.6		40.0		50.6		102.5		75.4		102.5
2021		51.9		35.4		51.9		51.1		40.5		51.1		103.0		75.9		103.0
2022		51.9		35.4		51.9		51.6		41.0		51.6		103.5		76.4		103.5
2023		51.9		35.4		51.9		52.1		41.5		52.1		104.0		76.9		104.0
2024		51.9		35.6		51.9		52.7		42.0		52.7		104.6		77.6		104.6
2025		52.1		35.7		52.1		53.3		42.5		53.3		105.4		78.2		105.4
2026		52.2		35.7		52.2		53.9		43.1		53.9		106.1		78.8		106.1
2027		52.3		35.9		52.3		54.4		43.6		54.4		106.8		79.4		106.8
2028		52.5		36.0		52.5		55.0		44.2		55.0		107.5		80.1		107.5
2029		52.7		36.1		52.7		55.7		44.7		55.7		108.4		80.8		108.4
2030		52.8		36.1		52.8		56.3		45.2		56.3		109.1		81.4		109.1
90-'06	1.6%	1.8%	4.9%	4.6%	1.6%	1.8%	2.0%	2.1%	5.2%	4.8%	2.0%	2.1%	1.8%	1.9%	5.0%	4.7%	1.8%	1.9%
07-'10		0.2%		0.0%		0.2%		1.0%		0.9%		1.0%		0.6%		0.4%		0.6%
10-'15		0.2%		0.5%		0.2%		0.9%		1.2%		0.9%		0.5%		0.9%		0.5%
15-'20		0.2%		0.4%		0.2%		0.9%		1.2%		0.9%		0.5%		0.9%		0.5%
20-'25		0.1%		0.2%		0.1%		1.0%		1.2%		1.0%		0.6%		0.7%		0.6%
25-'30		0.3%		0.3%		0.3%		1.1%		1.3%		1.1%		0.7%		0.8%		0.7%
07-'30		0.2%		0.3%		0.2%		1.0%		1.2%		1.0%		0.6%		0.8%		0.6%



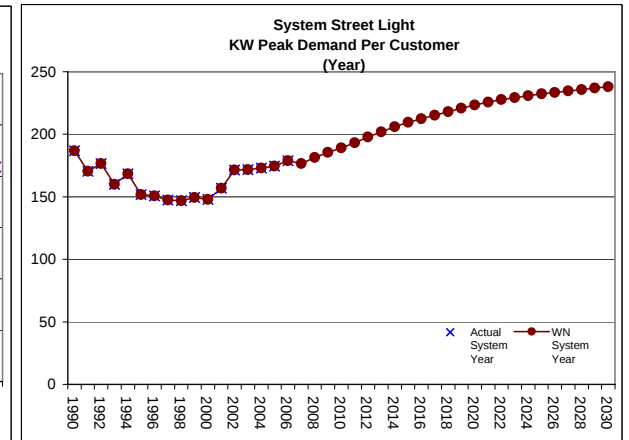
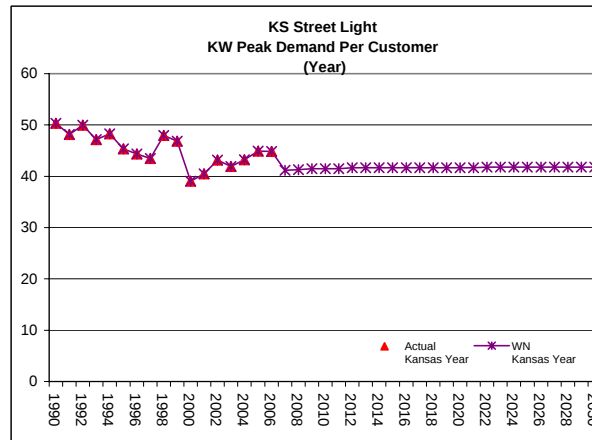
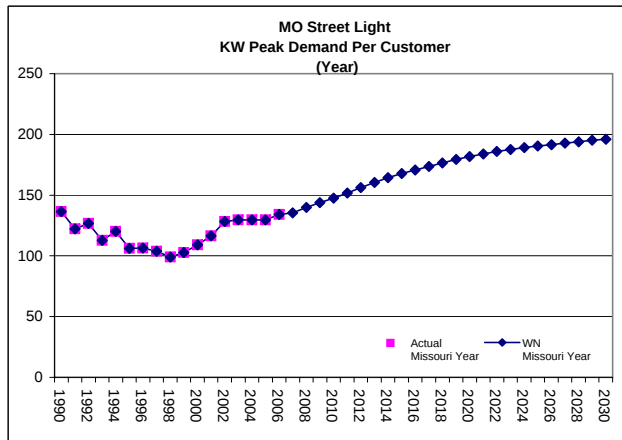
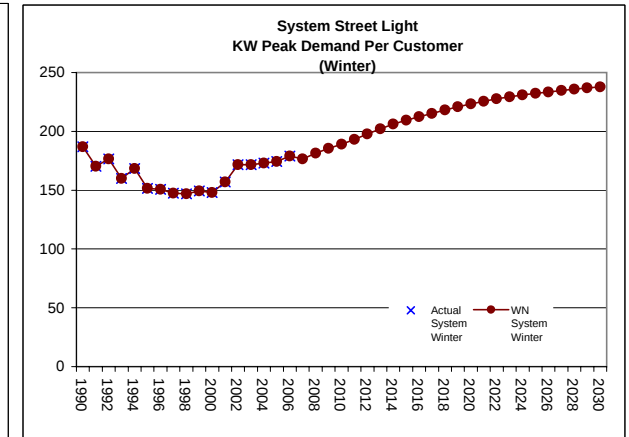
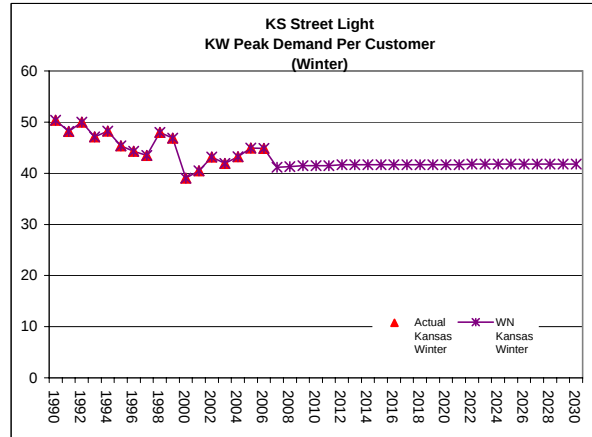
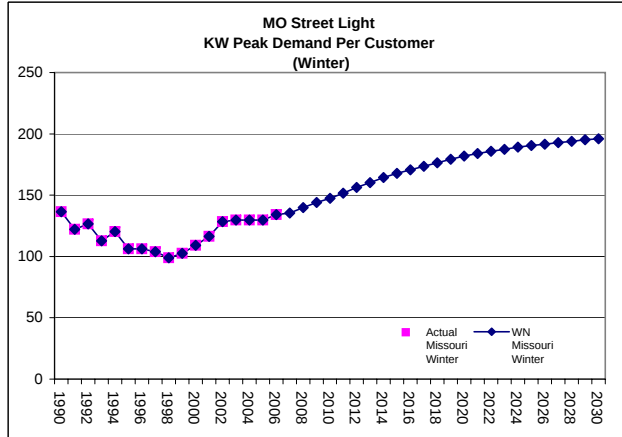
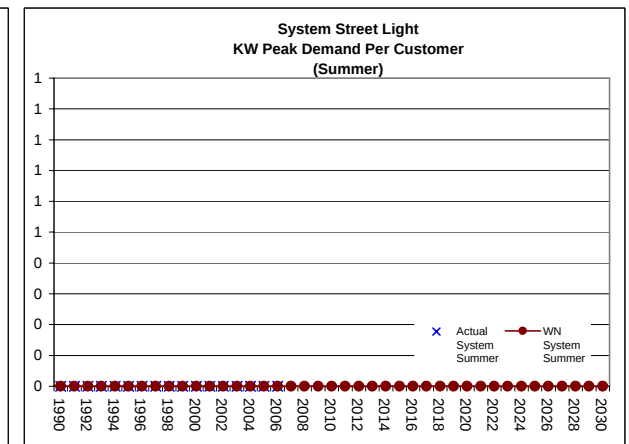
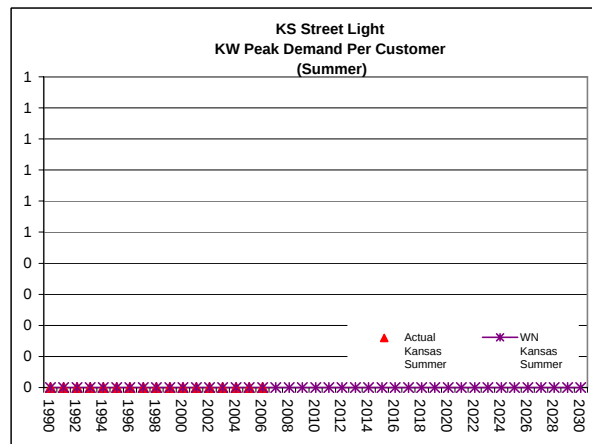
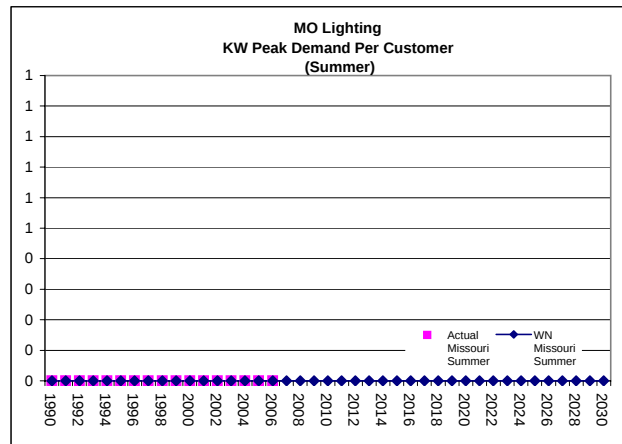
Plot I-17 Missouri & Kansas Manufacturing KW Peak Demand Per Customer
(Actual vs. Weather Normalized)

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1990	2,611.5	2,669.7	2,034.4	2,051.4	2,611.5	2,669.7	1,254.5	1,281.6	1,207.7	1,254.5	1,254.5	1,281.6	3,866.0	3,951.3	3,242.0	3,305.9	3,866.0	3,951.3
1991	2,485.6	2,558.8	2,651.0	2,761.6	2,485.6	2,558.8	1,353.9	1,375.1	1,556.9	1,633.2	1,353.9	1,375.1	3,839.4	3,933.9	4,207.9	4,394.9	3,839.4	3,933.9
1992	3,106.4	2,533.9	2,678.7	2,890.9	3,106.4	2,533.9	2,413.2	1,947.5	1,757.0	1,903.3	2,413.2	1,947.5	5,519.6	4,481.4	4,435.7	4,794.1	5,519.6	4,481.4
1993	2,822.7	2,905.3	2,403.5	2,563.4	2,822.7	2,905.3	2,230.6	2,300.0	1,667.4	1,809.2	2,230.6	2,300.0	5,053.3	5,205.3	4,070.9	4,372.6	5,053.3	5,205.3
1994	2,676.4	3,213.8	2,712.3	2,763.4	2,676.4	3,213.8	2,117.1	2,547.6	1,962.6	2,014.6	2,117.1	2,547.6	4,793.6	5,761.3	4,674.9	4,778.1	4,793.6	5,761.3
1995	3,044.4	2,995.7	3,023.1	3,221.7	3,044.4	2,995.7	2,039.3	1,973.9	1,970.0	2,103.1	2,039.3	1,973.9	5,083.7	4,969.6	4,993.1	5,324.9	5,083.7	4,969.6
1996	3,209.3	2,887.5	2,905.0	3,058.5	3,209.3	2,887.5	2,910.5	2,556.1	2,239.3	2,355.2	2,910.5	2,556.1	6,119.8	5,443.6	5,144.3	5,413.6	6,119.8	5,443.6
1997	3,268.6	3,234.5	3,136.8	3,143.8	3,268.6	3,234.5	2,234.1	2,162.4	2,164.1	2,164.8	2,234.1	2,162.4	5,502.7	5,396.8	5,300.9	5,308.6	5,502.7	5,396.8
1998	3,703.4	3,776.4	3,316.1	3,185.3	3,703.4	3,776.4	2,675.9	2,704.7	2,236.4	2,145.3	2,675.9	2,704.7	6,379.3	6,481.1	5,552.6	5,330.6	6,379.3	6,481.1
1999	3,610.6	3,774.2	3,167.0	3,088.9	3,610.6	3,774.2	2,276.3	2,340.7	2,282.4	2,224.9	2,276.3	2,340.7	5,886.9	6,114.8	5,449.4	5,313.8	5,886.9	6,114.8
2000	3,230.5	3,586.5	3,913.5	4,098.2	3,230.5	3,586.5	2,228.1	2,451.0	2,039.6	2,132.6	2,228.1	2,451.0	5,458.6	6,037.5	5,953.1	6,230.8	5,458.6	6,037.5
2001	3,679.6	3,770.2	3,415.1	3,386.5	3,679.6	3,770.2	1,627.9	1,629.7	1,802.5	1,787.1	1,627.9	1,629.7	5,307.5	5,399.9	5,217.5	5,173.6	5,307.5	5,399.9
2002	3,697.2	3,851.0	4,104.9	3,926.0	3,697.2	3,851.0	1,417.6	1,466.7	1,410.3	1,372.6	1,417.6	1,466.7	5,114.8	5,317.7	5,515.2	5,298.6	5,114.8	5,317.7
2003	4,173.8	4,382.1	3,515.6	3,615.8	4,173.8	4,382.1	1,821.6	1,906.3	1,311.4	1,292.6	1,821.6	1,906.3	5,995.3	6,288.4	4,827.0	4,908.5	5,995.3	6,288.4
2004	4,474.0	4,304.9	3,568.3	3,504.5	4,474.0	4,304.9	2,158.8	1,984.1	1,698.8	1,636.6	2,158.8	1,984.1	6,632.8	6,289.1	5,267.2	5,141.2	6,632.8	6,289.1
2005	2,816.2	2,916.6	3,324.5	3,438.6	2,816.2	2,916.6	1,763.2	1,781.4	1,566.2	1,557.8	1,763.2	1,781.4	4,579.4	4,698.1	4,890.7	4,996.4	4,579.4	4,698.1
2006	3,524.0	3,788.4	3,462.0	3,403.8	3,524.0	3,788.4	1,921.0	1,999.3	1,497.8	1,427.2	1,921.0	1,999.3	5,444.9	5,787.7	4,959.8	4,831.0	5,444.9	5,787.7
2007		3,916.1		3,458.7		3,916.1		1,945.7		1,616.2		1,945.7		5,861.8		5,074.9		5,861.8
2008		3,878.2		3,390.8		3,878.2		2,027.8		1,656.8		2,027.8		5,906.0		5,047.6		5,906.0
2009		3,930.4		3,436.4		3,930.4		2,071.6		1,688.8		2,071.6		6,001.9		5,125.2		6,001.9
2010		3,977.6		3,480.2		3,977.6		2,094.9		1,706.7		2,094.9		6,072.5		5,186.9		6,072.5
2011		4,024.2		3,524.9		4,024.2		2,111.4		1,719.3		2,111.4		6,135.7		5,244.2		6,135.7
2012		4,069.1		3,563.0		4,069.1		2,124.6		1,729.3		2,124.6		6,193.7		5,292.4		6,193.7
2013		4,113.8		3,610.9		4,113.8		2,135.2		1,739.3		2,135.2		6,249.1		5,350.2		6,249.1
2014		4,166.2		3,659.7		4,166.2		2,148.4		1,749.5		2,148.4		6,314.6		5,409.2		6,314.6
2015		4,212.1		3,698.0		4,212.1		2,159.0		1,758.0		2,159.0		6,371.1		5,456.0		6,371.1
2016		4,251.6		3,738.8		4,251.6		2,167.2		1,766.5		2,167.2		6,418.7		5,505.3		6,418.7
2017		4,288.4		3,769.5		4,288.4		2,175.2		1,772.5		2,175.2		6,463.6		5,542.0		6,463.6
2018		4,315.2		3,799.3		4,315.2		2,180.8		1,778.3		2,180.8		6,496.0		5,577.6		6,496.0
2019		4,354.2		3,840.9		4,354.2		2,189.7		1,786.8		2,189.7		6,543.9		5,627.7		6,543.9
2020		4,392.3		3,871.2		4,392.3		2,198.8		1,793.8		2,198.8		6,591.0		5,665.0		6,591.0
2021		4,415.9		3,893.3		4,415.9		2,204.4		1,798.1		2,204.4		6,620.2		5,691.4		6,620.2
2022		4,435.4		3,906.6		4,435.4		2,209.9		1,800.8		2,209.9		6,645.4		5,707.4		6,645.4
2023		4,453.9		3,925.3		4,453.9		2,213.8		1,805.0		2,213.8		6,667.7		5,730.3		6,667.7
2024		4,485.1		3,959.5		4,485.1		2,222.9		1,811.9		2,222.9		6,708.0		5,771.4		6,708.0
2025		4,523.7		4,067.3		4,523.7		2,232.8		1,818.1		2,232.8		6,756.5		5,885.5		6,756.5
2026		4,646.0		4,093.5		4,646.0		2,241.9		1,823.5		2,241.9		6,887.9		5,917.0		6,887.9
2027		4,677.6		4,122.8		4,677.6		2,250.1		1,829.6		2,250.1		6,927.7		5,952.4		6,927.7
2028		4,717.3		4,156.0		4,717.3		2,261.8		1,836.8		2,261.8		6,979.1		5,992.7		6,979.1
2029		4,758.3		4,186.9		4,758.3		2,272.6		1,843.0		2,272.6		7,030.9		6,029.9		7,030.9
2030		4,784.5		4,206.7		4,784.5		2,280.9		1,847.5		2,280.9		7,065.3		6,054.2		7,065.3
90-'06	1.9%	2.2%	3.4%	3.2%	1.9%	2.2%	2.7%	2.8%	1.4%	0.8%	2.7%	2.8%	2.2%	2.4%	2.7%	2.4%	2.2%	2.4%
07-'10		0.5%		0.2%		0.5%		2.5%		1.8%		2.5%		1.2%		0.7%		1.2%
10-'15		1.2%		1.2%		1.2%		0.6%		0.6%		0.6%		1.0%		1.0%		1.0%
15-'20		0.8%		0.9%		0.8%		0.4%		0.4%		0.4%		0.7%		0.8%		0.7%
20-'25		0.6%		1.0%		0.6%		0.3%		0.3%		0.3%		0.5%		0.8%		0.5%
25-'30		1.1%		0.7%		1.1%		0.4%		0.3%		0.4%		0.9%		0.6%		0.9%
07-'30		0.9%		0.9%		0.9%		0.7%		0.6%		0.7%		0.8%		0.8%		0.8%



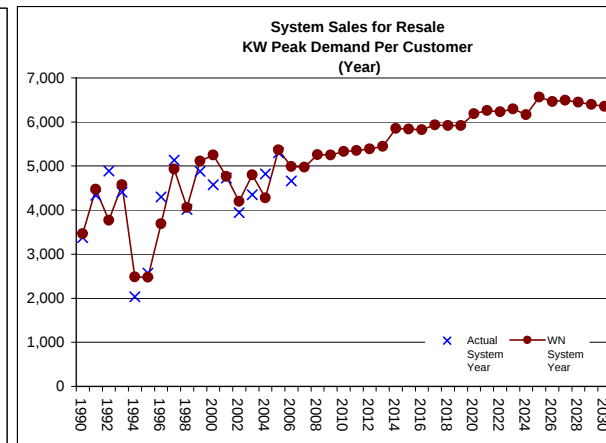
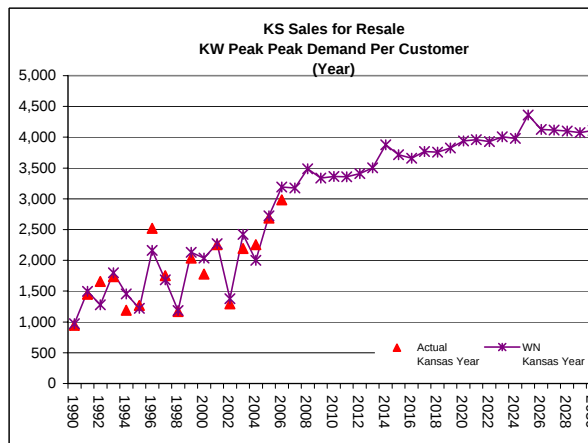
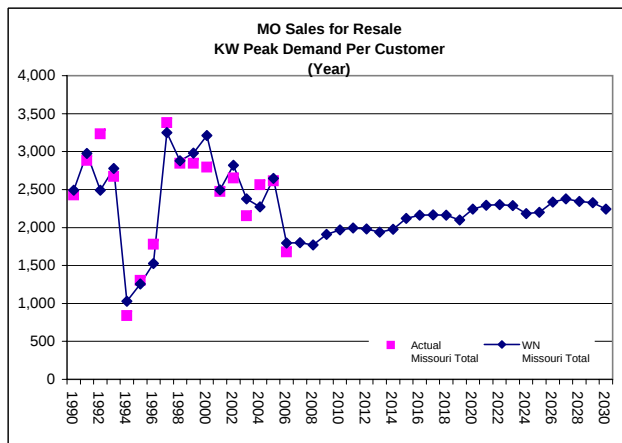
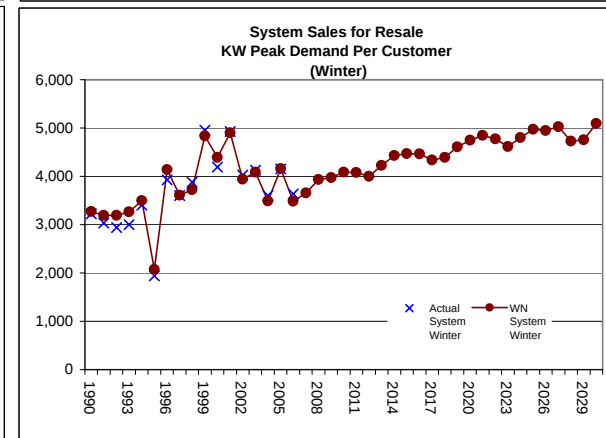
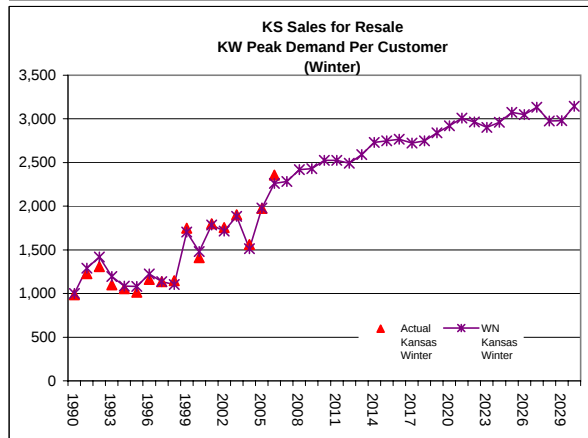
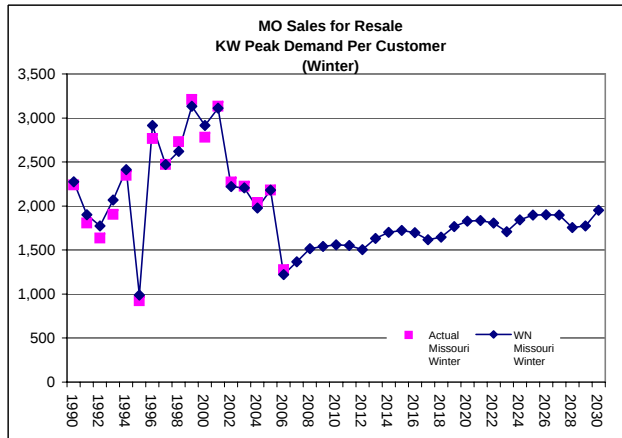
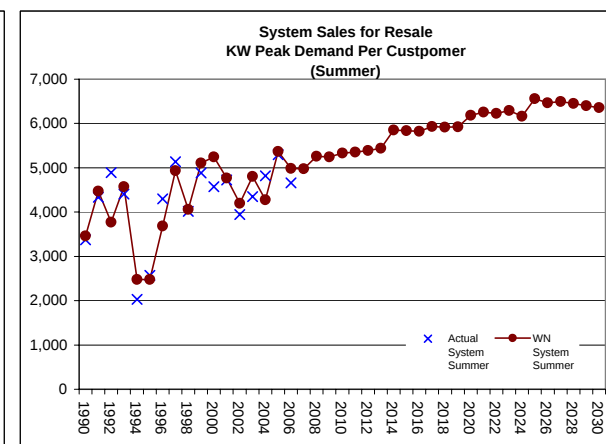
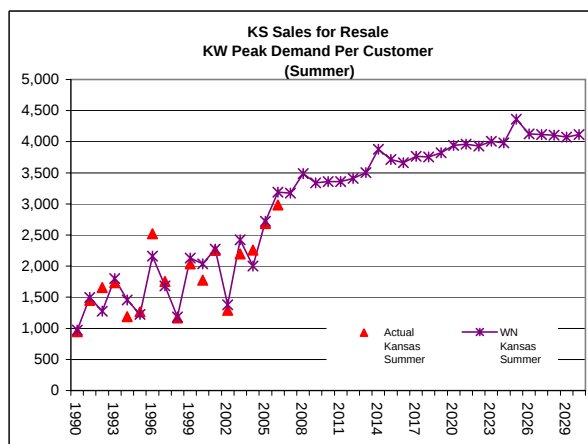
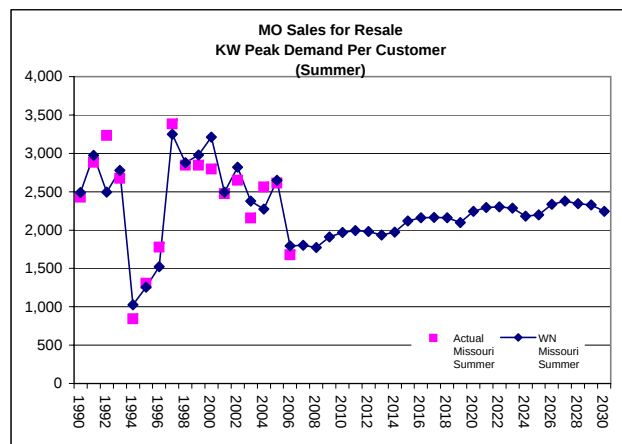
Plot I-18 Missouri & Kansas Street Lights and Traffic Signals KW Peak Demand Per Customer
(Actual vs. Weather Normalized)

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1990	0.0	0.0	136.5	136.5	136.5	136.5	0.0	0.0	50.3	50.3	50.3	50.3	0.0	0.0	186.8	186.8	186.8	186.8
1991	0.0	0.0	122.2	122.2	122.2	122.2	0.0	0.0	48.2	48.2	48.2	48.2	0.0	0.0	170.4	170.4	170.4	170.4
1992	0.0	0.0	126.6	126.6	126.6	126.6	0.0	0.0	50.0	50.0	50.0	50.0	0.0	0.0	176.6	176.6	176.6	176.6
1993	0.0	0.0	112.8	112.8	112.8	112.8	0.0	0.0	47.1	47.1	47.1	47.1	0.0	0.0	159.9	159.9	159.9	159.9
1994	0.0	0.0	120.2	120.2	120.2	120.2	0.0	0.0	48.3	48.3	48.3	48.3	0.0	0.0	168.4	168.4	168.4	168.4
1995	0.0	0.0	106.3	106.3	106.3	106.3	0.0	0.0	45.4	45.4	45.4	45.4	0.0	0.0	151.6	151.6	151.6	151.6
1996	0.0	0.0	106.3	106.3	106.3	106.3	0.0	0.0	44.3	44.3	44.3	44.3	0.0	0.0	150.6	150.6	150.6	150.6
1997	0.0	0.0	103.9	103.9	103.9	103.9	0.0	0.0	43.5	43.5	43.5	43.5	0.0	0.0	147.4	147.4	147.4	147.4
1998	0.0	0.0	99.0	99.0	99.0	99.0	0.0	0.0	48.0	48.0	48.0	48.0	0.0	0.0	146.9	146.9	146.9	146.9
1999	0.0	0.0	102.6	102.6	102.6	102.6	0.0	0.0	46.8	46.8	46.8	46.8	0.0	0.0	149.5	149.5	149.5	149.5
2000	0.0	0.0	109.0	109.0	109.0	109.0	0.0	0.0	39.1	39.1	39.1	39.1	0.0	0.0	148.0	148.0	148.0	148.0
2001	0.0	0.0	116.4	116.4	116.4	116.4	0.0	0.0	40.5	40.5	40.5	40.5	0.0	0.0	156.9	156.9	156.9	156.9
2002	0.0	0.0	128.4	128.4	128.4	128.4	0.0	0.0	43.2	43.2	43.2	43.2	0.0	0.0	171.5	171.5	171.5	171.5
2003	0.0	0.0	129.7	129.7	129.7	129.7	0.0	0.0	41.9	41.9	41.9	41.9	0.0	0.0	171.6	171.6	171.6	171.6
2004	0.0	0.0	129.7	129.7	129.7	129.7	0.0	0.0	43.2	43.2	43.2	43.2	0.0	0.0	172.9	172.9	172.9	172.9
2005	0.0	0.0	129.6	129.6	129.6	129.6	0.0	0.0	44.9	44.9	44.9	44.9	0.0	0.0	174.5	174.5	174.5	174.5
2006	0.0	0.0	134.1	134.1	134.1	134.1	0.0	0.0	44.9	44.9	44.9	44.9	0.0	0.0	178.9	178.9	178.9	178.9
2007		0.0		135.4		135.4		0.0		41.1		41.1		0.0		176.5		176.5
2008		0.0		140.0		140.0		0.0		41.3		41.3		0.0		181.3		181.3
2009		0.0		143.9		143.9		0.0		41.5		41.5		0.0		185.4		185.4
2010		0.0		147.5		147.5		0.0		41.5		41.5		0.0		189.0		189.0
2011		0.0		151.6		151.6		0.0		41.5		41.5		0.0		193.1		193.1
2012		0.0		156.3		156.3		0.0		41.6		41.6		0.0		197.9		197.9
2013		0.0		160.4		160.4		0.0		41.6		41.6		0.0		202.0		202.0
2014		0.0		164.5		164.5		0.0		41.6		41.6		0.0		206.1		206.1
2015		0.0		167.9		167.9		0.0		41.6		41.6		0.0		209.5		209.5
2016		0.0		170.7		170.7		0.0		41.6		41.6		0.0		212.4		212.4
2017		0.0		173.6		173.6		0.0		41.6		41.6		0.0		215.2		215.2
2018		0.0		176.4		176.4		0.0		41.6		41.6		0.0		218.1		218.1
2019		0.0		179.3		179.3		0.0		41.6		41.6		0.0		220.9		220.9
2020		0.0		181.8		181.8		0.0		41.6		41.6		0.0		223.4		223.4
2021		0.0		183.9		183.9		0.0		41.6		41.6		0.0		225.6		225.6
2022		0.0		185.9		185.9		0.0		41.8		41.8		0.0		227.7		227.7
2023		0.0		187.5		187.5		0.0		41.8		41.8		0.0		229.3		229.3
2024		0.0		189.1		189.1		0.0		41.8		41.8		0.0		230.9		230.9
2025		0.0		190.5		190.5		0.0		41.8		41.8		0.0		232.3		232.3
2026		0.0		191.6		191.6		0.0		41.8		41.8		0.0		233.4		233.4
2027		0.0		192.9		192.9		0.0		41.8		41.8		0.0		234.7		234.7
2028		0.0		193.9		193.9		0.0		41.8		41.8		0.0		235.7		235.7
2029		0.0		195.2		195.2		0.0		41.8		41.8		0.0		237.0		237.0
2030		0.0		196.1		196.1		0.0		41.8		41.8		0.0		237.9		237.9
90-'06	#DIV/0!	#DIV/0!	-0.1%	-0.1%	-0.1%	-0.1%	#DIV/0!	#DIV/0!	-0.7%	-0.7%	-0.7%	-0.7%	#DIV/0!	#DIV/0!	-0.3%	-0.3%	-0.3%	-0.3%
07-'10		#DIV/0!		2.9%		2.9%		#DIV/0!		0.3%		0.3%		#DIV/0!		2.3%		2.3%
10-'15		#DIV/0!		2.6%		2.6%		#DIV/0!		0.1%		0.1%		#DIV/0!		2.1%		2.1%
15-'20		#DIV/0!		1.6%		1.6%		#DIV/0!		0.0%		0.0%		#DIV/0!		1.3%		1.3%
20-'25		#DIV/0!		0.9%		0.9%		#DIV/0!		0.1%		0.1%		#DIV/0!		0.8%		0.8%
25-'30		#DIV/0!		0.6%		0.6%		#DIV/0!		0.0%		0.0%		#DIV/0!		0.5%		0.5%
07-'30		#DIV/0!		1.6%		1.6%		#DIV/0!		0.1%		0.1%		#DIV/0!		1.3%		1.3%



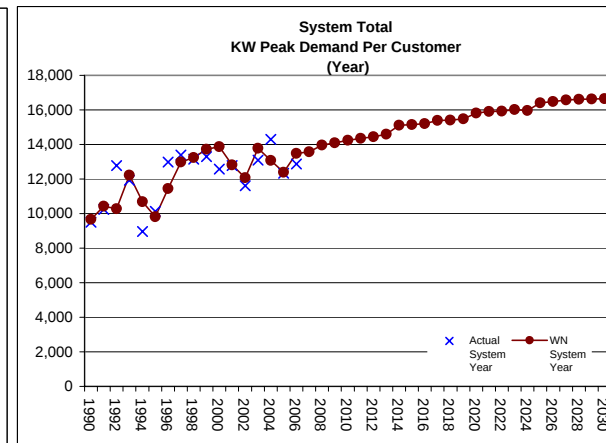
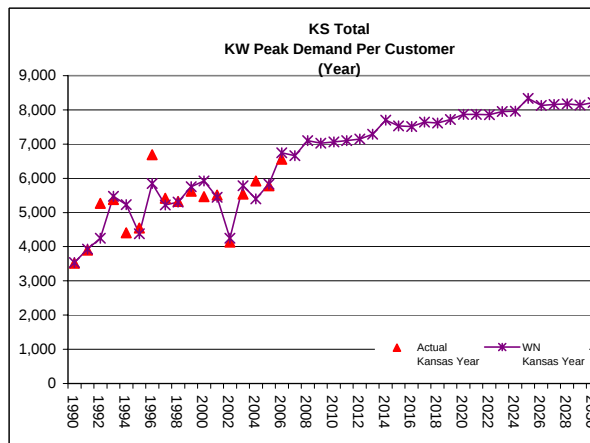
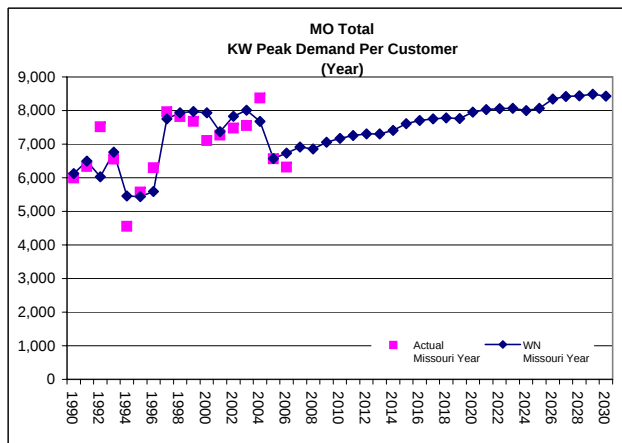
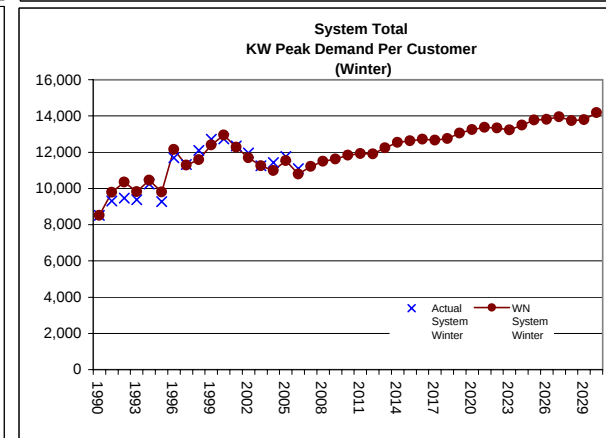
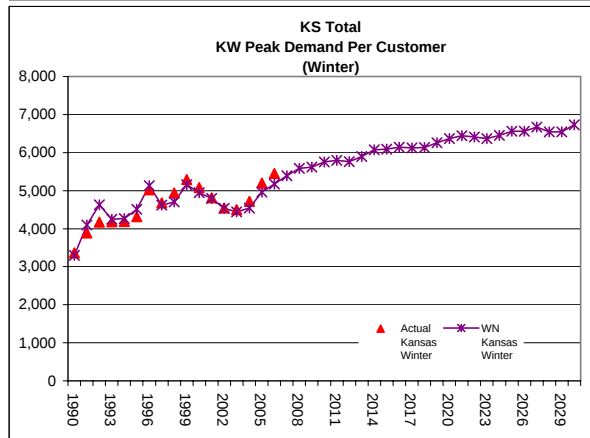
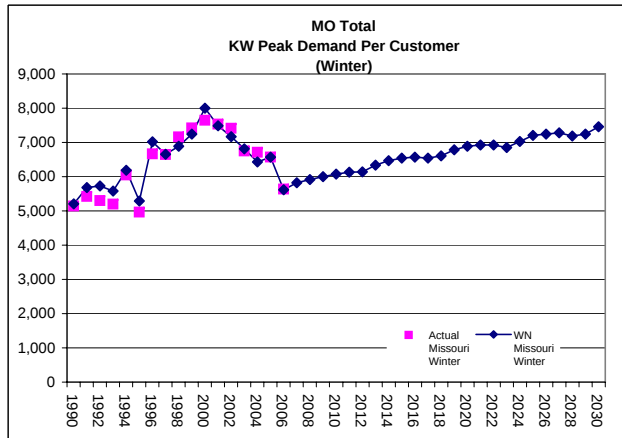
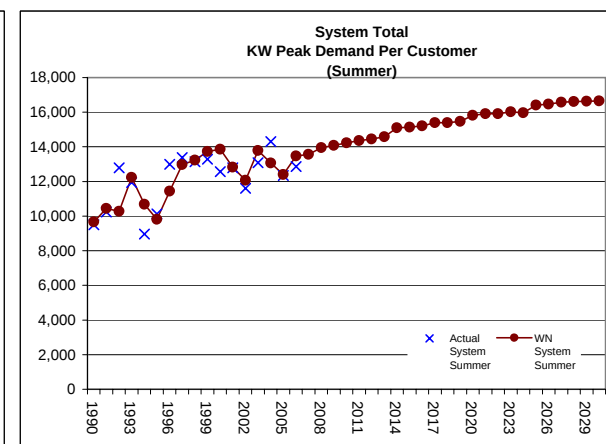
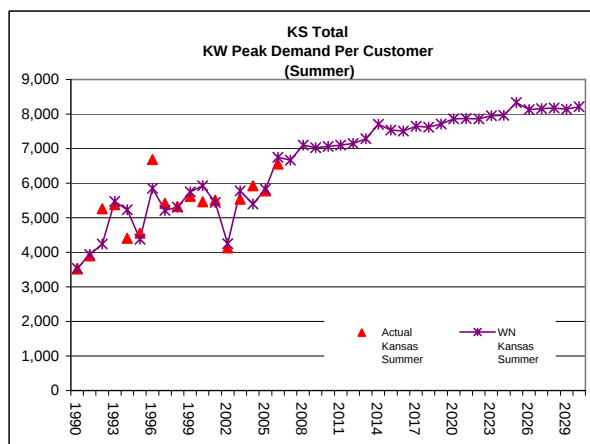
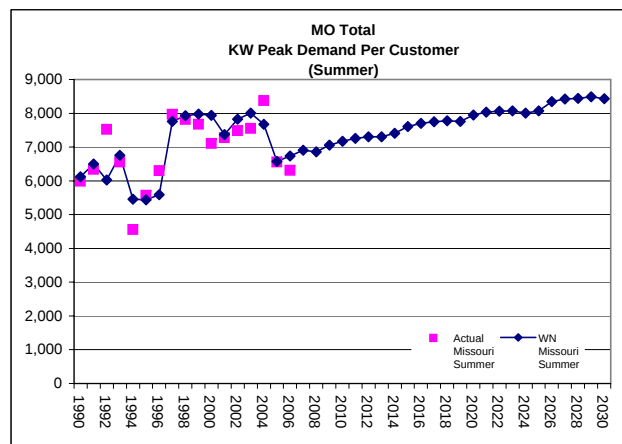
**Plot I-19 Missouri & Kansas Sales for Resale KW Peak Demand Per Customer
(Actual vs. Weather Normalized)**

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Total	WN Missouri Total	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1990	2,427.5	2,490.9	2,240.1	2,273.4	2,427.5	2,490.9	945.9	970.6	985.1	999.7	945.9	970.6	3,373.4	3,461.5	3,225.3	3,273.1	3,373.4	3,461.5
1991	2,882.1	2,974.6	1,807.1	1,899.7	2,882.1	2,974.6	1,450.4	1,497.0	1,226.3	1,289.1	1,450.4	1,497.0	4,332.5	4,471.6	3,033.4	3,188.8	4,332.5	4,471.6
1992	3,232.5	2,492.9	1,635.2	1,774.0	3,232.5	2,492.9	1,655.7	1,276.8	1,307.9	1,418.9	1,655.7	1,276.8	4,888.2	3,769.7	2,943.1	3,192.9	4,888.2	3,769.7
1993	2,674.4	2,776.5	1,904.6	2,069.2	2,674.4	2,776.5	1,733.5	1,799.7	1,098.4	1,193.3	1,733.5	1,799.7	4,407.8	4,576.2	3,003.0	3,262.5	4,407.8	4,576.2
1994	840.7	1,026.8	2,349.4	2,413.6	840.7	1,026.8	1,190.2	1,453.7	1,056.1	1,085.0	1,190.2	1,453.7	2,031.0	2,480.5	3,405.6	3,498.6	2,031.0	2,480.5
1995	1,303.6	1,257.1	923.8	987.0	1,303.6	1,257.1	1,267.7	1,222.5	1,013.5	1,082.8	1,267.7	1,222.5	2,571.3	2,479.6	1,937.3	2,069.9	2,571.3	2,479.6
1996	1,777.0	1,524.2	2,767.3	2,914.2	1,777.0	1,524.2	2,521.5	2,162.9	1,162.8	1,224.5	2,521.5	2,162.9	4,298.5	3,687.2	3,930.2	4,138.8	4,298.5	3,687.2
1997	3,381.7	3,247.9	2,470.3	2,473.2	3,381.7	3,247.9	1,753.4	1,684.0	1,135.5	1,136.9	1,753.4	1,684.0	5,135.2	4,932.0	3,605.8	3,610.1	5,135.2	4,932.0
1998	2,844.2	2,876.8	2,730.2	2,621.2	2,844.2	2,876.8	1,169.8	1,183.2	1,148.2	1,102.3	1,169.8	1,183.2	4,014.0	4,060.0	3,878.3	3,723.5	4,014.0	4,060.0
1999	2,846.4	2,979.5	3,208.2	3,131.3	2,846.4	2,979.5	2,034.9	2,130.1	1,746.9	1,705.0	2,034.9	2,130.1	4,881.3	5,109.6	4,955.1	4,836.3	4,881.3	5,109.6
2000	2,796.2	3,209.9	2,779.6	2,913.2	2,796.2	3,209.9	1,775.0	2,037.6	1,412.0	1,479.8	1,775.0	2,037.6	4,571.2	5,247.5	4,191.6	4,393.0	4,571.2	5,247.5
2001	2,472.4	2,493.2	3,131.9	3,111.8	2,472.4	2,493.2	2,253.5	2,272.5	1,797.7	1,786.2	2,253.5	2,272.5	4,725.9	4,765.7	4,929.6	4,897.9	4,725.9	4,765.7
2002	2,649.3	2,820.4	2,271.1	2,222.3	2,649.3	2,820.4	1,293.5	1,377.1	1,753.9	1,716.2	1,293.5	1,377.1	3,942.8	4,197.4	4,025.0	3,938.4	3,942.8	4,197.4
2003	2,155.5	2,378.3	2,225.6	2,204.6	2,155.5	2,378.3	2,195.5	2,422.4	1,900.6	1,882.7	2,195.5	2,422.4	4,351.0	4,800.8	4,126.2	4,087.3	4,351.0	4,800.8
2004	2,561.2	2,272.4	2,040.7	1,977.6	2,561.2	2,272.4	2,257.7	2,003.0	1,560.6	1,512.4	2,257.7	2,003.0	4,818.9	4,275.4	3,601.4	3,490.0	4,818.9	4,275.4
2005	2,612.4	2,647.2	2,180.0	2,182.3	2,612.4	2,647.2	2,685.8	2,721.6	1,975.4	1,977.5	2,685.8	2,721.6	5,298.2	5,368.8	4,155.4	4,159.8	5,298.2	5,368.8
2006	1,678.0	1,794.5	1,275.6	1,222.2	1,678.0	1,794.5	2,984.0	3,191.4	2,358.3	2,259.7	2,984.0	3,191.4	4,662.0	4,985.9	3,633.9	3,482.0	4,662.0	4,985.9
2007		1,801.4		1,368.3		1,801.4		3,173.2		2,285.0		3,173.2		4,974.6		3,653.3		4,974.6
2008		1,770.8		1,516.3		1,770.8		3,485.2		2,417.6		3,485.2		5,256.1		3,933.9		5,256.1
2009		1,910.2		1,540.0		1,910.2		3,336.4		2,430.8		3,336.4		5,246.5		3,970.7		5,246.5
2010		1,968.0		1,560.1		1,968.0		3,360.8		2,524.5		3,360.8		5,328.8		4,084.6		5,328.8
2011		1,991.8		1,552.1		1,991.8		3,358.8		2,525.0		3,358.8		5,350.6		4,077.1		5,350.6
2012		1,981.6		1,505.4		1,981.6		3,409.8		2,493.9		3,409.8		5,391.4		3,999.3		5,391.4
2013		1,937.4		1,631.3		1,937.4		3,505.6		2,591.8		3,505.6		5,443.0		4,223.1		5,443.0
2014		1,974.8		1,701.0		1,974.8		3,878.8		2,730.0		3,878.8		5,853.6		4,430.9		5,853.6
2015		2,120.9		1,721.3		2,120.9		3,715.7		2,747.8		3,715.7		5,836.6		4,469.1		5,836.6
2016		2,161.7		1,695.8		2,161.7		3,660.6		2,767.5		3,660.6		5,822.4		4,463.4		5,822.4
2017		2,165.1		1,617.9		2,165.1		3,766.7		2,722.2		3,766.7		5,931.8		4,340.1		5,931.8
2018		2,161.7		1,645.2		2,161.7		3,756.5		2,748.4		3,756.5		5,918.2		4,393.6		5,918.2
2019		2,097.1		1,767.5		2,097.1		3,823.8		2,842.1		3,823.8		5,920.9		4,609.6		5,920.9
2020		2,243.3		1,826.7		2,243.3		3,940.0		2,921.3		3,940.0		6,183.3		4,748.0		6,183.3
2021		2,294.3		1,836.6		2,294.3		3,962.4		3,008.8		3,962.4		6,256.7		4,845.4		6,256.7
2022		2,301.1		1,808.1		2,301.1		3,927.8		2,963.9		3,927.8		6,228.8		4,771.9		6,228.8
2023		2,287.5		1,709.1		2,287.5		4,005.3		2,903.8		4,005.3		6,292.8		4,612.9		6,292.8
2024		2,182.1		1,841.8		2,182.1		3,982.8		2,959.6		3,982.8		6,164.9		4,801.4		6,164.9
2025		2,199.1		1,897.5		2,199.1		4,362.2		3,074.6		4,362.2		6,561.3		4,972.1		6,561.3
2026		2,335.0		1,900.5		2,335.0		4,127.6		3,048.5		4,127.6		6,462.7		4,949.0		6,462.7
2027		2,375.8		1,896.5		2,375.8		4,117.4		3,131.8		4,117.4		6,493.3		5,028.3		6,493.3
2028		2,345.2		1,755.8		2,345.2		4,103.2		2,975.4		4,103.2		6,448.4		4,731.2		6,448.4
2029		2,328.2		1,772.9		2,328.2		4,072.6		2,981.1		4,072.6		6,400.8		4,754.0		6,400.8
2030		2,243.3		1,951.1		2,243.3		4,113.3		3,144.3		4,113.3		6,356.6		5,095.4		6,356.6
90-'06	-2.3%	-2.0%	-3.5%	-3.8%	-2.3%	-2.0%	7.4%	7.7%	5.6%	5.2%	7.4%	7.7%	2.0%	2.3%	0.7%	0.4%	2.0%	2.3%
07-'10		3.0%		4.5%		3.0%		1.9%		3.4%		1.9%		2.3%		3.8%		2.3%
10-'15		1.5%		2.0%		1.5%		2.0%		1.7%		2.0%		1.8%		1.8%		1.8%
15-'20		1.1%		1.2%		1.1%		1.2%		1.2%		1.2%		1.2%		1.2%		1.2%
20-'25		-0.4%		0.8%		-0.4%		2.1%		1.0%		2.1%		1.2%		0.9%		1.2%
25-'30		0.4%		0.6%		0.4%		-1.2%		0.4%		-1.2%		-0.6%		0.5%		-0.6%
07-'30		1.0%		1.6%		1.0%		1.1%		1.4%		1.1%		1.1%		1.5%		1.1%



Plot I-20 Missouri & Kansas Total KW Peak Demand Per Customer
(Actual vs. Weather Normalized)

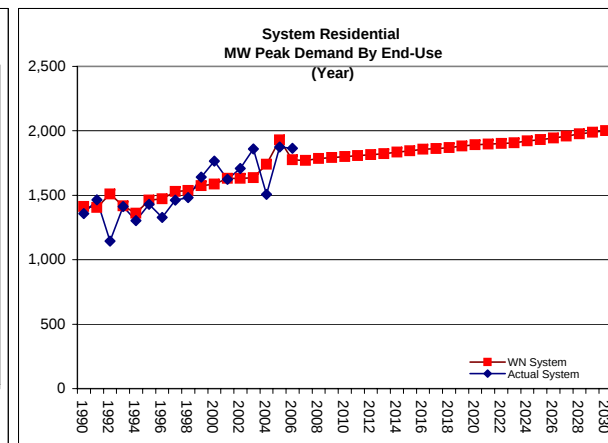
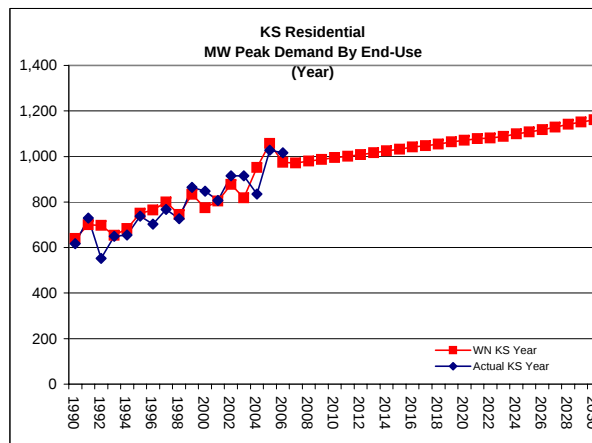
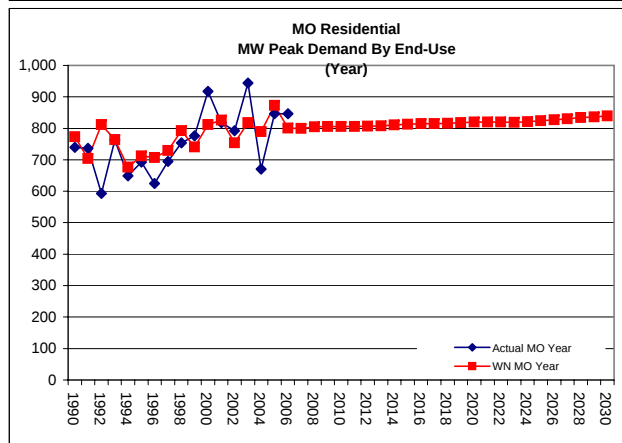
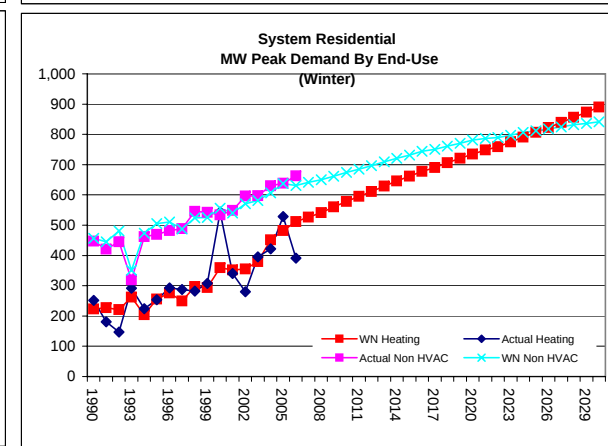
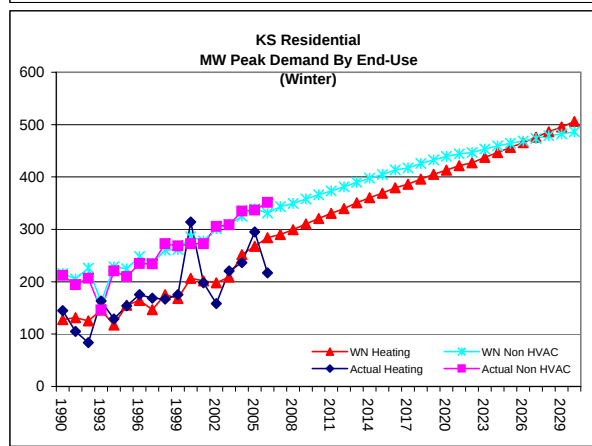
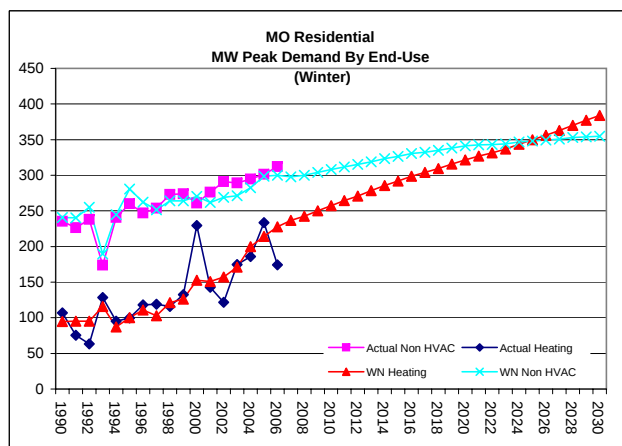
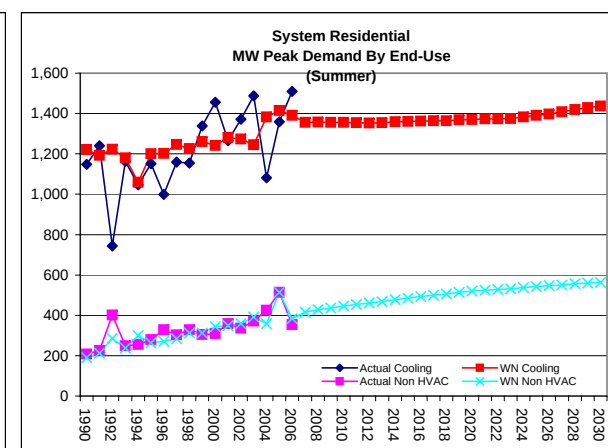
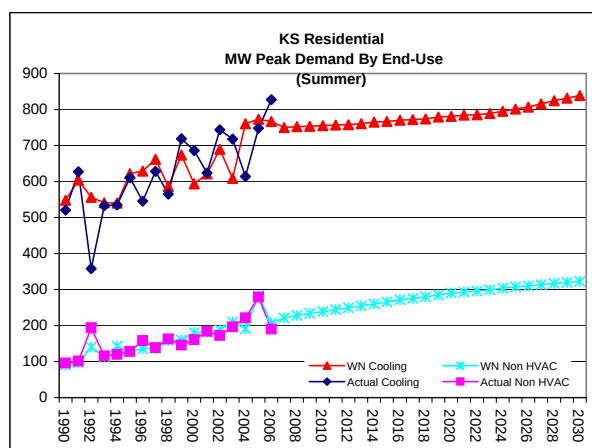
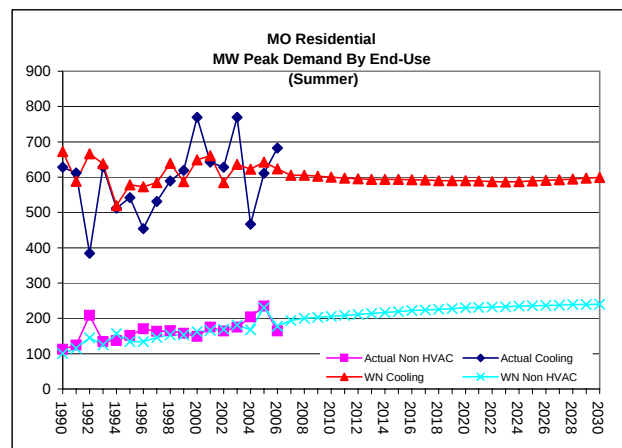
Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1990	5,986.5	6,123.2	5,143.6	5,209.6	5,986.5	6,123.2	3,521.7	3,536.3	3,369.0	3,295.3	3,521.7	3,536.3	9,508.2	9,659.4	8,512.7	8,504.9	9,508.2	9,659.4
1991	6,334.4	6,499.1	5,424.6	5,681.7	6,334.4	6,499.1	3,899.6	3,933.5	3,884.9	4,093.6	3,899.6	3,933.5	10,233.9	10,432.6	9,309.4	9,775.3	10,233.9	10,432.6
1992	7,517.4	6,029.7	5,299.2	5,727.7	7,517.4	6,029.7	5,262.9	4,243.5	4,175.0	4,625.6	5,262.9	4,243.5	12,780.3	10,273.2	9,474.2	10,353.3	12,780.3	10,273.2
1993	6,556.1	6,759.5	5,194.4	5,577.4	6,556.1	6,759.5	5,377.6	5,468.6	4,176.7	4,246.3	5,377.6	5,468.6	11,933.7	12,228.0	9,371.1	9,823.7	11,933.7	12,228.0
1994	4,556.9	5,455.4	6,047.9	6,185.6	4,556.9	5,455.4	4,403.5	5,232.5	4,186.6	4,262.7	4,403.5	5,232.5	8,960.5	10,687.8	10,234.6	10,448.3	8,960.5	10,687.8
1995	5,574.9	5,437.0	4,961.5	5,293.5	5,574.9	5,437.0	4,551.4	4,377.8	4,317.9	4,512.1	4,551.4	4,377.8	10,126.3	9,814.9	9,279.4	9,805.6	10,126.3	9,814.9
1996	6,298.2	5,592.2	6,667.7	7,021.5	6,298.2	5,592.2	6,686.1	5,849.0	5,024.4	5,134.7	6,686.1	5,849.0	12,984.3	11,441.2	11,692.1	12,156.1	12,984.3	11,441.2
1997	7,963.5	7,755.9	6,647.0	6,656.4	7,963.5	7,755.9	5,418.0	5,216.4	4,674.5	4,620.4	5,418.0	5,216.4	13,381.6	12,972.2	11,321.5	11,276.8	13,381.6	12,972.2
1998	7,818.8	7,928.7	7,154.6	6,886.5	7,818.8	7,928.7	5,321.6	5,307.5	4,940.5	4,703.2	5,321.6	5,307.5	13,140.4	13,236.3	12,095.1	11,589.7	13,140.4	13,236.3
1999	7,671.7	7,974.8	7,418.2	7,240.7	7,671.7	7,974.8	5,623.3	5,753.1	5,291.5	5,160.6	5,623.3	5,753.1	13,295.0	13,727.9	12,709.7	12,401.3	13,295.0	13,727.9
2000	7,106.2	7,937.6	7,647.4	8,001.1	7,106.2	7,937.6	5,460.7	5,924.6	5,080.4	4,950.3	5,460.7	5,924.6	12,566.9	13,862.2	12,727.9	12,951.4	12,566.9	13,862.2
2001	7,271.1	7,375.1	7,536.1	7,483.7	7,271.1	7,375.1	5,509.0	5,447.7	4,811.5	4,790.9	5,509.0	5,447.7	12,780.1	12,822.8	12,347.6	12,274.6	12,780.1	12,822.8
2002	7,480.6	7,824.1	7,408.8	7,167.2	7,480.6	7,824.1	4,133.0	4,247.4	4,546.5	4,530.5	4,133.0	4,247.4	11,613.6	12,071.5	11,955.3	11,697.8	11,613.6	12,071.5
2003	7,548.8	8,004.9	6,744.8	6,816.3	7,548.8	8,004.9	5,537.1	5,777.1	4,500.6	4,438.9	5,537.1	5,777.1	13,085.9	13,782.0	11,245.4	11,255.2	13,085.9	13,782.0
2004	8,375.2	7,671.7	6,707.2	6,432.7	8,375.2	7,671.7	5,922.7	5,397.0	4,722.6	4,543.5	5,922.7	5,397.0	14,297.9	13,068.7	11,429.8	10,976.2	14,297.9	13,068.7
2005	6,558.8	6,572.6	6,567.1	6,568.5	6,558.8	6,572.6	5,781.5	5,825.2	5,194.8	4,959.8	5,781.5	5,825.2	12,340.4	12,397.8	11,761.9	11,528.3	12,340.4	12,397.8
2006	6,309.8	6,731.2	5,635.9	5,612.3	6,309.8	6,731.2	6,558.5	6,745.4	5,450.4	5,173.7	6,558.5	6,745.4	12,868.4	13,476.6	11,086.3	10,786.0	12,868.4	13,476.6
2007		6,909.5		5,822.2		6,909.5		6,664.3		5,395.6		6,664.3		13,573.9		11,217.8		13,573.9
2008		6,857.1		5,912.3		6,857.1		7,102.8		5,585.2		7,102.8		13,960.0		11,497.5		13,960.0
2009		7,061.5		5,997.7		7,061.5		7,026.4		5,621.5		7,026.4		14,087.9		11,619.2		14,087.9
2010		7,175.8		6,078.1		7,175.8		7,060.5		5,756.9		7,060.5		14,236.4		11,835.1		14,236.4
2011		7,255.3		6,131.5		7,255.3		7,099.0		5,794.8		7,099.0		14,354.3		11,926.4		14,354.3
2012		7,301.2		6,140.2		7,301.2		7,152.1		5,764.7		7,152.1		14,453.3		11,904.9		14,453.3
2013		7,304.6		6,332.5		7,304.6		7,285.0		5,900.2		7,285.0		14,589.6		12,232.6		14,589.6
2014		7,406.6		6,469.7		7,406.6		7,699.6		6,076.8		7,699.6		15,106.2		12,546.5		15,106.2
2015		7,608.8		6,542.7		7,608.8		7,534.8		6,090.1		7,534.8		15,143.6		12,632.8		15,143.6
2016		7,704.0		6,572.8		7,704.0		7,508.7		6,141.2		7,508.7		15,212.8		12,714.0		15,212.8
2017		7,751.5		6,537.7		7,751.5		7,644.4		6,121.2		7,644.4		15,395.8		12,658.8		15,395.8
2018		7,779.0		6,606.2		7,779.0		7,619.5		6,136.1		7,619.5		15,398.5		12,742.2		15,398.5
2019		7,760.6		6,784.8		7,760.6		7,716.7		6,262.0		7,716.7		15,477.2		13,046.8		15,477.2
2020		7,952.9		6,885.7		7,952.9		7,864.4		6,367.7		7,864.4		15,817.3		13,253.4		15,817.3
2021		8,031.5		6,926.0		8,031.5		7,871.7		6,441.0		7,871.7		15,903.2		13,367.0		15,903.2
2022		8,060.7		6,922.6		8,060.7		7,857.0		6,410.7		7,857.0		15,917.6		13,333.4		15,917.6
2023		8,068.0		6,849.9		8,068.0		7,952.6		6,370.7		7,952.6		16,020.5		13,220.6		16,020.5
2024		8,001.7		7,028.7		8,001.7		7,960.7		6,455.9		7,960.7		15,962.4		13,484.6		15,962.4
2025		8,067.3		7,202.9		8,067.3		8,337.1		6,563.6		8,337.1		16,404.3		13,766.5		16,404.3
2026		8,342.0		7,241.8		8,342.0		8,133.4		6,562.8		8,133.4		16,475.3		13,804.6		16,475.3
2027		8,423.0		7,283.5		8,423.0		8,153.7		6,672.8		8,153.7		16,576.7		13,956.2		16,576.7
2028		8,442.4		7,187.3		8,442.4		8,175.5		6,546.5		8,175.5		16,617.9		13,733.9		16,617.9
2029		8,485.1		7,245.5		8,485.1		8,143.0		6,544.4		8,143.0		16,628.1		13,790.0		16,628.1
2030		8,433.1		7,457.5		8,433.1		8,211.4		6,729.1		8,211.4		16,644.5		14,186.6		16,644.5
90-'06	0.3%	0.6%	0.6%	0.5%	0.3%	0.6%	4.0%	4.1%	3.1%	2.9%	4.0%	4.1%	1.9%	2.1%	1.7%	1.5%	1.9%	2.1%
07-'10		1.3%		1.4%		1.3%		1.9%		2.2%		1.9%		1.6%		1.8%		1.6%
10-'15		1.2%		1.5%		1.2%		1.3%		1.1%		1.3%		1.2%		1.3%		1.2%
15-'20		0.9%		1.0%		0.9%		0.9%		0.9%		0.9%		0.9%		1.0%		0.9%
20-'25		0.3%		0.9%		0.3%		1.2%		0.6%		1.2%		0.7%		0.8%		0.7%
25-'30		0.9%		0.7%		0.9%		-0.3%		0.5%		-0.3%		0.3%		0.6%		0.3%
07-'30		0.9%		1.1%		0.9%		0.9%		1.0%		0.9%		0.9%		1.0%		0.9%



Plot I-21 Missouri & Kansas Residential MW Peak Demand By End-Use

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	628.0	672.7	106.9	95.0	112.1	100.4	235.3	240.6	740.0	773.1	520.8	548.5	144.7	127.9	95.9	90.5	212.3	215.5	616.8	639.0
1991	612.1	588.5	75.7	95.3	124.4	115.3	226.5	240.4	736.5	703.8	627.6	603.9	105.0	131.6	101.3	96.6	194.3	205.0	728.9	700.5
1992	384.7	666.4	63.3	95.2	208.1	145.4	238.2	255.3	592.8	811.7	358.3	556.4	83.7	125.3	193.4	140.5	206.7	226.0	551.7	696.9
1993	628.9	638.3	128.5	115.8	133.7	125.3	173.8	189.3	762.6	763.7	533.2	541.4	163.0	146.3	115.7	112.5	145.9	161.5	649.0	653.9
1994	512.3	519.3	95.3	87.0	136.5	156.9	240.7	244.6	648.8	676.2	535.0	540.5	129.1	117.4	119.5	142.6	220.8	228.7	654.6	683.1
1995	541.8	578.4	99.7	100.4	150.9	134.2	260.1	280.5	692.8	712.6	610.2	621.6	154.0	155.0	127.7	128.4	209.5	225.1	737.8	750.0
1996	454.3	572.9	118.2	111.0	170.2	134.2	247.1	262.4	624.5	707.2	545.3	628.7	175.1	164.6	157.7	136.4	234.7	248.4	703.0	765.1
1997	531.6	584.2	118.9	103.0	163.5	145.5	253.8	251.6	695.1	729.7	628.4	661.7	168.4	146.5	139.0	138.1	234.3	235.3	767.4	799.8
1998	588.8	638.6	115.8	121.4	165.2	153.4	273.1	264.0	754.0	792.1	564.9	586.4	166.7	175.4	162.3	158.6	272.4	260.4	727.2	745.1
1999	618.7	587.6	132.5	126.3	158.0	153.2	274.0	264.0	776.7	740.8	719.0	673.4	175.2	167.9	146.1	159.7	268.2	261.2	865.0	833.2
2000	769.2	649.1	229.4	152.8	148.8	162.6	261.1	270.2	918.0	811.6	686.0	593.2	314.3	206.8	161.1	180.8	272.5	286.1	847.0	774.0
2001	642.4	660.6	143.0	150.7	175.0	165.4	276.4	261.9	817.4	826.0	623.5	621.3	197.8	201.5	183.6	182.7	272.7	277.9	807.1	803.9
2002	628.3	584.3	121.7	157.3	163.8	169.8	290.8	269.2	792.1	754.1	743.2	689.7	158.3	197.8	172.4	188.0	305.7	301.2	915.6	877.6
2003	769.1	636.0	174.9	171.2	175.2	181.6	289.1	271.4	944.3	817.5	718.2	608.2	220.8	208.8	196.2	209.8	308.5	309.6	914.5	818.0
2004	467.0	622.5	186.1	199.8	203.8	167.4	294.8	282.5	670.8	789.9	613.7	760.4	236.2	251.6	221.5	190.8	335.0	324.8	835.2	951.3
2005	611.1	642.7	233.4	214.1	235.1	229.9	301.5	298.7	846.2	872.6	748.4	772.5	295.0	267.9	279.4	283.8	336.8	338.8	1,027.8	1,056.3
2006	682.5	623.4	174.4	227.5	164.2	177.5	312.1	299.8	846.6	800.8	826.9	766.9	217.0	284.2	190.1	206.6	351.1	331.1	1,016.9	973.5
2007		605.7		236.7		193.8		297.8		799.5		750.2		290.2		221.5		343.7		971.8
2008		605.0		242.4		199.9		300.1		805.0		752.2		299.1		227.9		349.7		980.1
2009		602.6		250.3		202.9		304.0		805.5		753.6		310.2		233.4		357.8		987.0
2010		600.1		257.5		206.0		308.2		806.2		755.3		320.7		239.3		366.3		994.6
2011		597.6		264.4		208.4		311.5		806.0		756.7		330.5		244.4		373.6		1,001.0
2012		595.3		271.0		211.2		315.4		806.5		757.6		339.8		249.8		381.5		1,007.4
2013		593.9		278.3		213.6		319.0		807.4		760.6		350.8		255.0		390.1		1,015.6
2014		593.9		285.7		216.6		323.3		810.5		764.5		360.3		260.8		397.5		1,025.3
2015		593.5		292.1		219.4		326.7		812.9		766.6		369.3		265.7		404.7		1,032.4
2016		592.7		298.5		222.2		330.5		814.8		770.1		379.3		271.5		413.5		1,041.6
2017		591.4		303.9		223.9		332.4		815.3		771.6		386.1		275.4		417.6		1,047.0
2018		590.0		309.4		225.6		334.9		815.6		774.0		396.2		279.9		425.8		1,053.9
2019		589.9		315.8		227.9		338.3		817.8		779.0		404.8		285.2		432.5		1,064.2
2020		589.6		321.5		230.6		341.5		820.2		781.2		412.9		290.2		439.5		1,071.4
2021		588.9		327.1		231.3		342.5		820.2		784.3		421.7		293.2		444.3		1,077.5
2022		587.6		331.6		232.0		343.1		819.6		785.5		427.3		295.9		446.6		1,081.4
2023		586.3		336.8		232.6		344.1		818.9		788.5		437.6		299.0		453.4		1,087.5
2024		587.1		343.5		234.3		346.9		821.4		795.3		446.9		303.9		459.6		1,099.2
2025		589.0		350.0		235.4		348.1		824.4		801.2		456.6		307.0		464.2		1,108.2
2026		590.7		356.3		236.5		349.5		827.2		807.1		465.7		310.3		468.6		1,117.4
2027		592.6		362.9		237.5		350.9		830.1		815.7		476.0		313.5		473.7		1,129.2
2028		594.9		370.1		239.0		353.1		833.9		824.2		486.4		317.5		479.2		1,141.6
2029		597.1		377.0		239.6		353.7		836.7		831.4		495.8		319.7		482.0		1,151.1
2030		598.9		384.0		240.4		354.8		839.3		838.4		506.1		322.3		486.2		1,160.7
90-'06	0.5%	-0.5%	3.1%	5.6%	2.4%	3.6%	1.8%	1.4%	0.8%	0.2%	2.9%	2.1%	2.6%	5.1%	4.4%	5.3%	3.2%	2.7%	3.2%	2.7%
07-'10		-0.3%		2.9%		2.1%		1.2%		0.3%		0.2%		3.4%		2.6%		2.1%		0.8%
10-'15		-0.2%		2.6%		1.3%		1.2%		0.2%		0.3%		2.9%		2.1%		2.0%		0.7%
15-'20		-0.1%		1.9%		1.0%		0.9%		0.2%		0.4%		2.3%		1.8%		1.7%		0.7%
20-'25		0.0%		1.7%		0.4%		0.4%		0.1%		0.5%		2.0%		1.1%		1.1%		0.7%
25-'30		0.3%		1.9%		0.4%		0.4%		0.4%		0.9%		2.1%		1.0%		0.9%		0.9%
27-'30		0.0%		2.1%		0.9%		0.8%		0.2%		0.5%		2.4%		1.6%		1.5%		0.8%

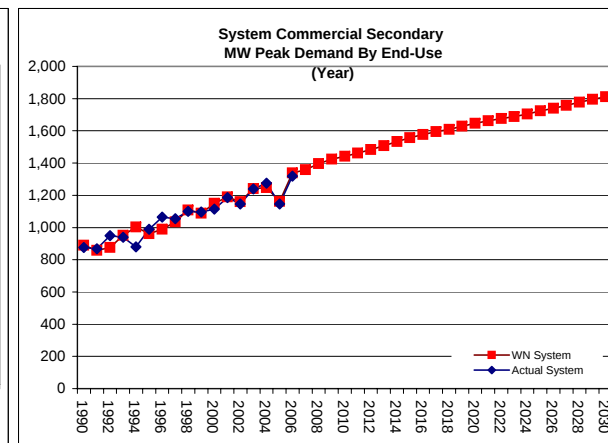
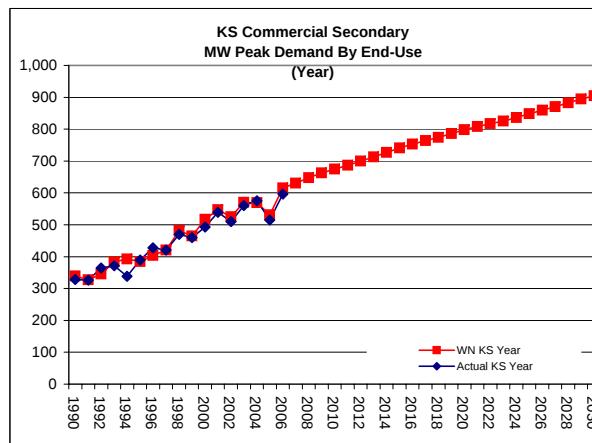
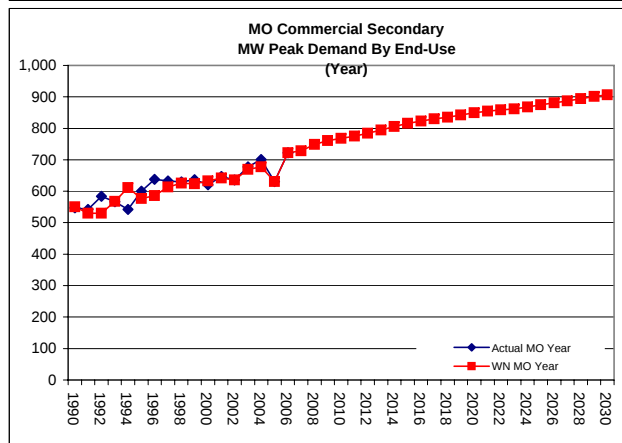
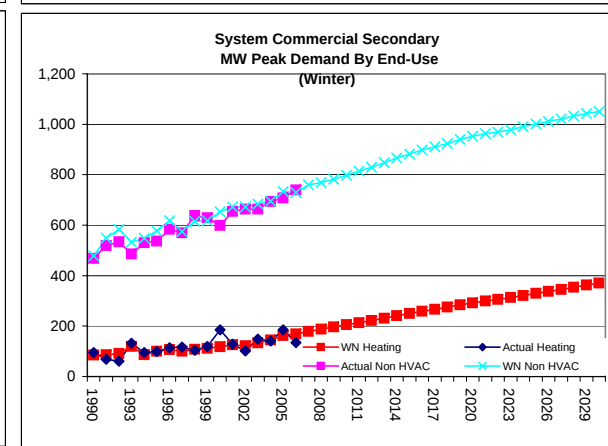
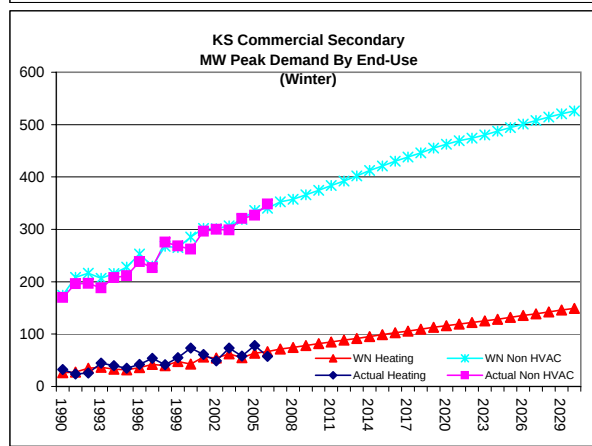
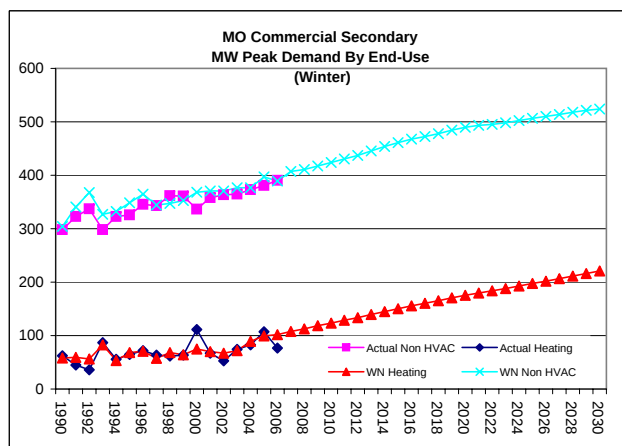
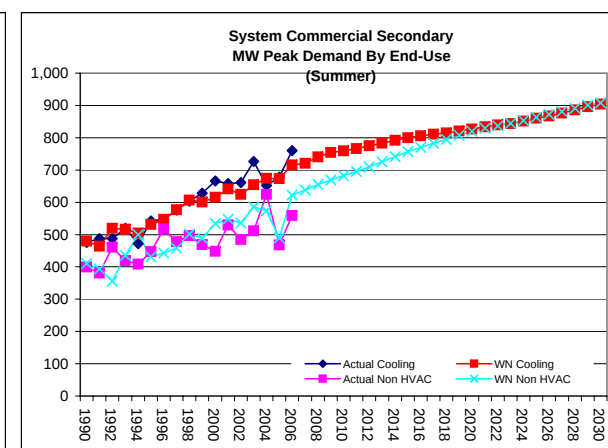
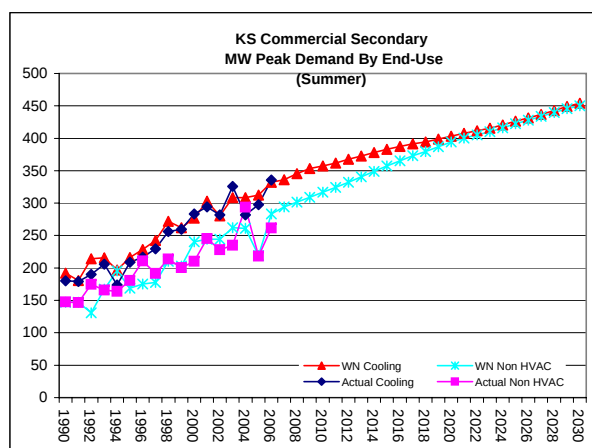
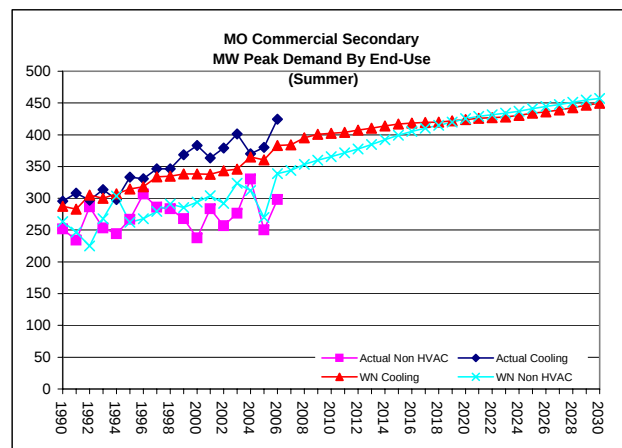
Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	1,148.8	1,221.3	251.7	222.9	208.0	190.8	447.6	456.1	1,356.8	1,412.1
1991	1,239.8	1,192.4	180.7	226.9	225.7	211.9	420.9	445.5	1,465.4	1,404.3
1992	743.0	1,222.7	147.0	220.4	401.5	285.9	444.9	481.3	1,144.5	1,508.6
1993	1,162.1	1,179.8	291.5	262.1	249.5	237.8	319.7	350.8	1,411.6	1,417.6
1994	1,047.3	1,059.8	224.4	204.4	256.1	299.5	461.5	473.3	1,303.4	1,359.3
1995	1,152.0	1,200.0	253.6	255.4	278.6	262.6	469.7	505.7	1,430.6	1,462.6
1996	999.6	1,201.6	293.3	275.7	327.9	270.6	481.8	510.8	1,327.5	1,472.2
1997	1,159.9	1,245.9	287.3	249.5	302.5	283.7	488.0	486.9	1,462.4	1,529.5
1998	1,153.7	1,225.1	282.5	296.8	327.5	312.1	545.6	524.4	1,481.3	1,537.1
1999	1,337.7	1,261.0	307.7	294.2	304.0	312.9	542.1	525.2	1,641.7	1,573.9
2000	1,455.2	1,242.3	543.7	359.6	309.9	343.3	533.6	556.3	1,765.1	1,585.6
2001	1,265.9	1,281.9	340.8	352.2	358.6	348.1	549.1	539.8	1,624.5	1,629.9
2002	1,371.5	1,273.9	280.0	355.1	336.2	357.8	596.5	570.3	1,707.7	1,631.7
2003	1,487.3	1,244.1	395.7	380.0	371.4	391.4	597.6	581.0	1,858.7	1,635.5
2004	1,080.7	1,382.9	422.3	451.4	425.3	358.2	629.7	607.2	1,506.0	1,741.2
2005	1,359.5	1,415.2	528.4	481.9	514.5	513.7	638.3	637.5	1,874.1	1,928.9
2006	1,509.3	1,390.3	391.3	511.7	354.3	384.1	663.3	630.9	1,863.6	1,774.4
2007		1,355.9		526.9		415.4		641.5		1,771.3
2008		1,357.3		541.5		427.8		649.8		1,785.1
2009		1,356.2		560.5		436.3		661.8		1,792.5
2010		1,355.4		578.3		445.3		674.5		1,800.8
2011		1,354.3		594.9		452.8		685.1		1,807.0
2012		1,352.9		610.8		461.0		696.9		1,813.9
2013		1,354.5		629.2		468.5		709.1		1,823.1
2014		1,358.4		646.0		477.3		720.8		1,835.7
2015		1,360.2		661.5		485.1		731.4		1,845.3
2016		1,362.8		677.8		493.7		744.1		1,856.4
2017		1,363.1		689.9		499.3		750.0		1,862.3
2018		1,364.0		705.6		505.5		760.6		1,869.5
2019		1,368.9		720.6		513.0		770.8		1,881.9
2020		1,370.8		734.4		520.8		781.0		1,891.6
2021		1,373.2		748.8		524.5		786.8		1,897.7
2022		1,373.1		759.0		527.9		789.7		1,901.0
2023		1,374.8		774.5		531.7		797.5		1,906.4
2024		1,382.4		790.4		538.2		806.5		1,920.5
2025		1,390.3		806.6		542.4		812.3		1,932.6
2026		1,397.8		821.9		546.8		818.1		1,944.6
2027		1,408.3		838.9		551.0		824.6		1,959.3
2028		1,419.1		856.5		556.4		832.3		1,975.5
2029		1,428.5		872.8		559.3		835.7		1,987.8
2030		1,437.3		890.1		562.7		841.0		2,000.0
	1.7%	0.8%	2.8%	5.3%	3.4%	4.5%	2.5%	2.0%	2.0%	1.4%
		0.0%		3.1%		2.3%		1.7%		0.6%
		0.1%		2.7%		1.7%		1.6%		0.5%
		0.2%		2.1%		1.4%		1.3%		0.5%
		0.3%		1.9%		0.8%		0.8%		0.4%
		0.7%		2.0%		0.7%		0.7%		0.7%
		0.3%		2.3%		1.3%		1.2%		0.5%



Plot I-22 Missouri & Kansas Commercial Secondary MW Peak Demand By End-Use

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	295.7	287.5	62.5	58.3	251.6	263.4	298.2	303.9	547.3	550.8	180.2	192.2	32.3	26.1	147.8	147.3	169.8	173.9	328.0	339.5
1991	308.1	283.0	44.7	59.2	234.1	246.7	323.0	340.8	542.2	529.7	179.3	180.7	24.1	27.6	146.7	146.9	196.2	208.2	326.0	327.6
1992	297.3	305.1	35.7	56.5	286.6	225.2	337.4	367.4	583.9	530.4	190.2	214.2	25.6	35.1	174.7	131.0	197.0	216.2	364.9	345.2
1993	313.9	300.0	87.0	82.4	253.0	267.7	298.2	326.9	566.9	567.7	205.9	215.9	44.3	36.4	166.0	167.5	188.3	206.4	371.9	383.4
1994	297.9	307.2	55.7	53.5	244.3	303.8	322.5	332.3	542.2	611.0	173.9	196.8	39.7	33.0	164.0	195.6	207.7	215.7	337.9	392.4
1995	333.3	314.8	64.4	68.2	266.8	262.3	325.7	348.7	600.1	577.0	208.7	216.2	34.9	32.0	180.5	168.6	211.4	228.1	389.1	384.9
1996	331.0	318.3	71.9	71.0	306.4	267.8	345.6	364.5	637.4	586.1	216.5	228.4	41.9	35.9	210.9	175.2	238.0	253.1	427.4	403.6
1997	346.6	333.9	63.3	57.7	286.1	279.7	343.4	344.3	632.7	613.5	229.5	242.5	53.6	42.3	191.5	177.8	226.6	229.8	421.0	420.3
1998	346.7	335.1	61.9	68.2	283.3	291.0	361.8	347.5	630.0	626.1	256.4	271.9	41.8	40.0	213.7	210.0	275.8	267.5	470.1	481.9
1999	368.3	338.5	63.7	63.8	268.0	285.3	361.0	352.6	636.3	623.8	259.7	261.9	55.2	47.9	200.3	203.0	268.1	265.0	460.0	464.9
2000	383.0	338.5	111.6	74.8	237.9	293.8	336.7	368.3	620.8	632.4	283.4	277.1	73.4	43.1	210.1	240.4	262.1	285.4	493.4	517.5
2001	363.5	337.8	67.2	70.0	283.6	304.1	358.0	371.0	647.0	641.9	294.2	303.2	61.0	56.2	245.2	244.2	296.1	301.9	539.4	547.4
2002	379.1	343.6	53.0	67.0	256.6	291.9	363.4	370.9	635.6	635.5	281.7	280.6	48.6	54.4	228.1	244.5	299.7	301.2	509.8	525.1
2003	401.2	345.7	74.5	71.6	276.5	323.9	364.8	376.8	677.7	669.6	325.5	308.6	73.4	62.1	235.2	262.2	298.9	306.9	560.7	570.7
2004	369.9	365.2	82.4	89.2	330.5	312.3	372.9	376.4	700.5	677.5	281.7	308.4	57.8	54.8	293.6	261.1	321.0	319.0	575.3	569.5
2005	380.4	360.7	107.2	99.3	250.1	269.9	380.9	397.2	630.5	630.6	297.5	312.3	78.0	63.6	218.0	219.3	327.0	336.1	515.5	531.6
2006	424.6	383.4	76.8	101.9	297.9	338.8	390.7	389.1	722.5	722.2	335.4	332.0	57.2	66.9	261.4	283.5	348.3	340.5	596.9	615.5
2007		384.2		107.5		344.1		407.4		728.3		336.1		71.5		294.4		352.3		630.5
2008		395.0		112.8		353.4		410.9		748.5		345.8		74.7		301.4		357.2		647.1
2009		400.9		118.4		359.8		417.4		760.7		353.4		78.3		309.0		365.9		662.4
2010		402.1		123.6		365.7		423.8		767.8		357.5		81.7		316.8		374.7		674.3
2011		403.8		128.6		371.5		430.3		775.3		362.0		85.0		324.5		383.5		686.5
2012		407.2		133.8		377.6		437.4		784.8		367.6		88.3		332.2		392.2		699.8
2013		410.2		139.4		384.7		445.7		794.9		372.5		91.9		340.4		402.1		712.9
2014		413.8		145.2		392.3		454.2		806.0		378.1		95.5		349.2		412.2		727.2
2015		416.8		150.4		399.2		461.0		816.0		383.2		99.0		357.5		421.1		740.8
2016		418.3		155.8		405.1		467.6		823.3		387.3		102.6		365.4		430.3		752.7
2017		419.5		160.6		410.3		472.7		829.8		391.3		106.0		372.9		438.2		764.2
2018		419.8		165.5		414.9		477.8		834.8		394.4		109.4		379.8		446.0		774.2
2019		421.8		170.9		420.2		484.3		841.9		398.9		113.0		387.1		455.0		786.1
2020		423.8		175.4		425.5		489.5		849.3		403.3		116.1		394.5		462.8		797.8
2021		425.8		179.8		428.9		493.2		854.6		407.7		119.2		400.2		469.2		807.9
2022		427.2		183.6		431.5		495.3		858.7		411.8		122.0		405.2		474.4		817.1
2023		428.2		187.8		433.8		498.1		862.0		415.4		125.0		410.1		480.2		825.5
2024		430.7		192.6		437.1		502.6		867.8		420.7		128.6		415.9		487.6		836.6
2025		433.9		197.4		441.0		506.5		874.9		426.4		132.0		422.3		494.4		848.7
2026		436.3		201.9		444.4		510.0		880.7		431.4		135.3		428.1		500.9		859.5
2027		439.2		206.6		447.6		513.6		886.8		436.9		138.8		433.8		507.5		870.7
2028		442.7		211.6		451.2		517.8		893.9		442.9		142.4		439.8		514.4		882.7
2029		446.6		216.4		454.8		521.6		901.4		449.1		145.9		445.6		520.8		894.7
2030		449.5		221.1		457.3		524.2		906.8		454.1		149.3		450.2		525.8		904.3
90-'06	2.3%	1.8%	1.3%	3.5%	1.1%	1.6%	1.7%	1.6%	1.8%	1.7%	4.0%	3.5%	3.6%	6.1%	3.6%	4.2%	4.6%	4.3%	3.8%	3.8%
07-'10		1.5%		4.8%		2.1%		1.3%		1.8%		2.1%		4.5%		2.5%		2.1%		2.3%
10-'15		0.7%		4.0%		1.8%		1.7%		1.2%		1.4%		3.9%		2.4%		2.4%		1.9%
15-'20		0.3%		3.1%		1.3%		1.2%		0.8%		1.0%		3.2%		2.0%		1.9%		1.5%
20-'25		0.5%		2.4%		0.7%		0.7%		0.6%		1.1%		2.6%		1.4%		1.3%		1.2%
25-'30		0.7%		2.3%		0.7%		0.7%		0.7%		1.3%		2.5%		1.3%		1.2%		1.3%
07-'30		0.7%		3.2%		1.2%		1.1%		1.0%		1.3%		3.3%		1.9%		1.8%		1.6%

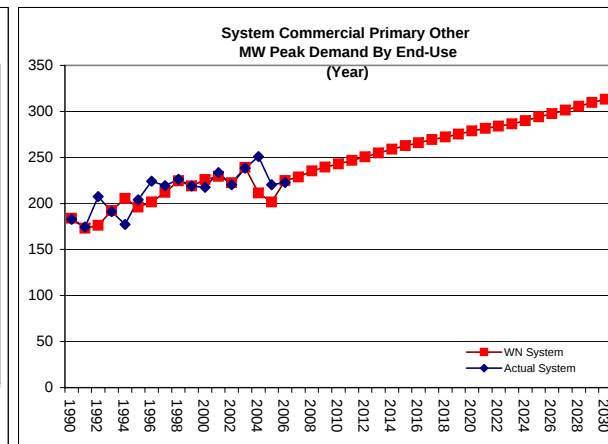
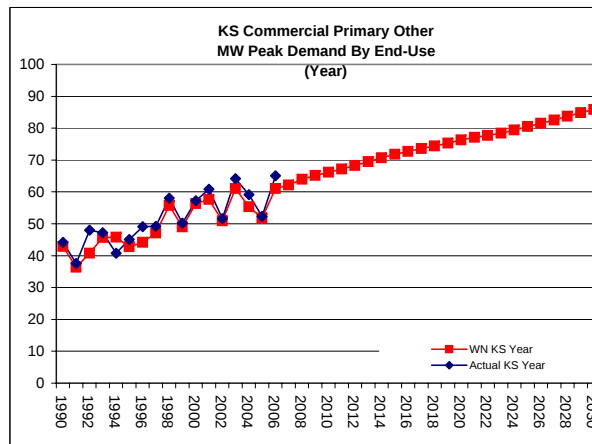
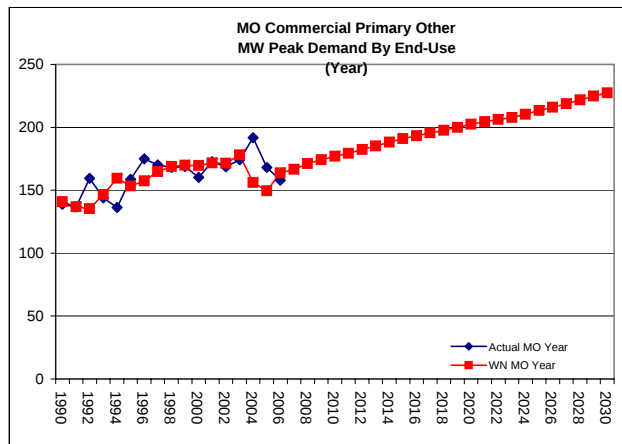
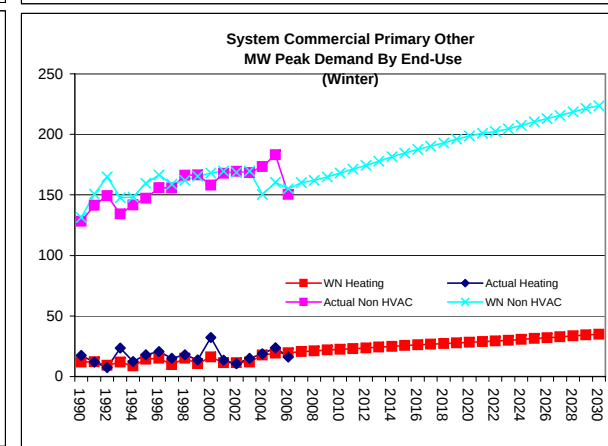
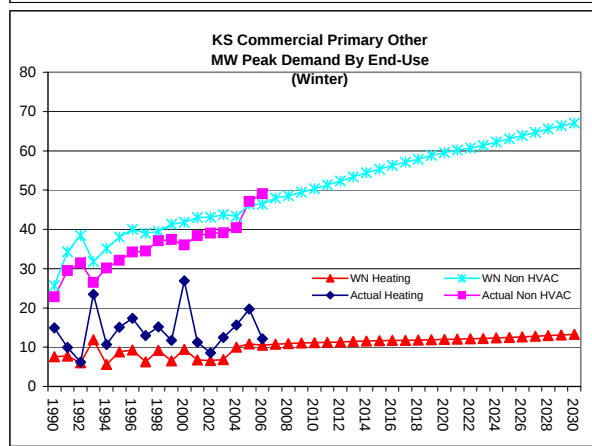
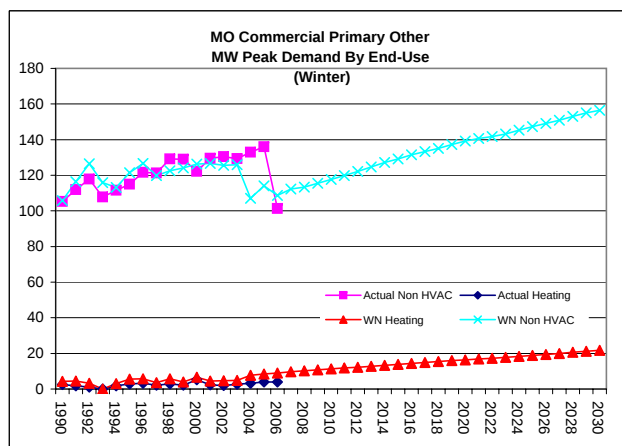
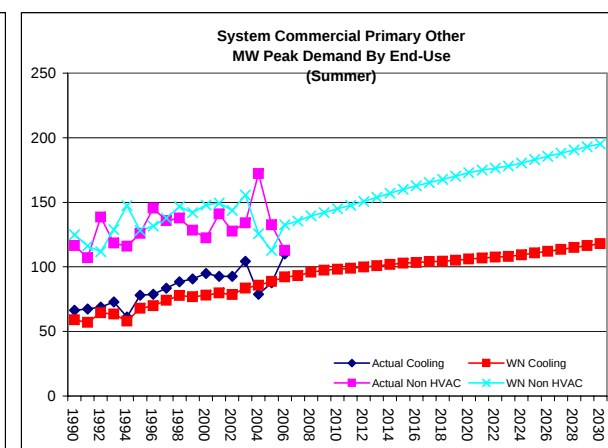
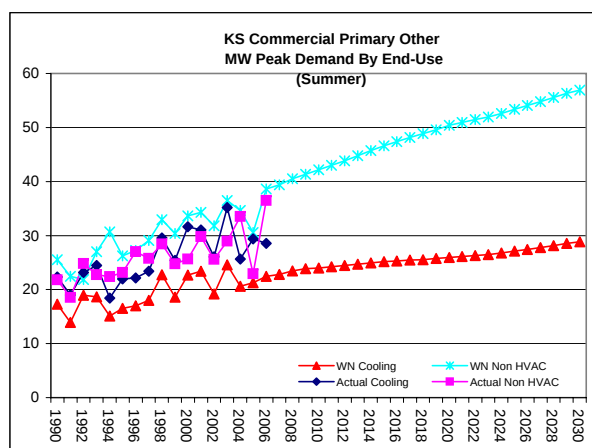
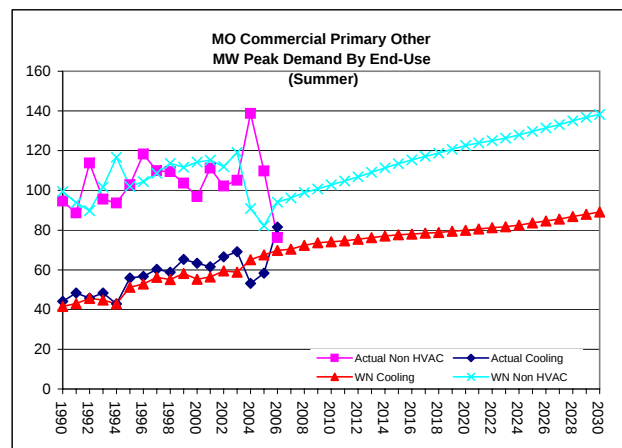
Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	475.9	479.6	94.7	84.4	399.4	410.7	468.0	477.9	875.3	890.3
1991	487.4	463.7	68.8	86.8	380.9	393.7	519.2	549.0	868.2	857.3
1992	487.5	519.3	61.4	91.6	461.3	356.2	534.4	583.6	948.8	875.6
1993	519.7	516.0	131.3	118.8	419.0	435.2	486.5	533.3	938.7	951.1
1994	471.8	504.0	95.4	86.5	408.3	499.5	530.2	548.0	880.1	1,003.5
1995	541.9	531.0	99.4	100.3	447.3	430.9	537.0	576.8	989.2	961.9
1996	547.4	546.8	113.8	106.8	517.3	443.0	583.6	617.7	1,064.8	989.7
1997	576.1	576.4	117.0	100.0	477.6	457.5	569.9	574.1	1,053.7	1,033.8
1998	603.1	607.0	103.7	108.2	497.0	501.1	637.6	615.1	1,100.1	1,108.0
1999	628.0	600.4	118.8	111.6	468.3	488.3	629.2	617.7	1,096.3	1,088.7
2000	666.3	615.7	185.0	117.8	448.0	534.2	598.8	653.7	1,114.3	1,149.9
2001	657.7	640.9	128.2	126.2	528.8	548.3	654.2	672.8	1,186.5	1,189.2
2002	660.8	624.2	101.6	121.4	484.7	536.4	663.1	672.1	1,145.4	1,160.6
2003	726.7	654.3	147.9	133.7	511.7	586.1	663.7	683.8	1,238.4	1,240.4
2004	651.7	673.6	140.2	144.0	624.1	573.4	694.0	695.5	1,275.8	1,247.0
2005	677.9	673.0	185.3	162.9	468.1	489.2	707.9	733.3	1,146.0	1,162.2
2006	760.0	715.4	134.1	168.7	559.3	622.3	739.1	729.6	1,319.3	1,337.7
2007		720.3		179.0		638.5		759.7		1,358.8
2008		740.8		187.5		654.8		768.1		1,395.6
2009		754.3		196.8		668.8		783.3		1,423.1
2010		759.6		205.3		682.5		798.5		1,442.1
2011		765.7		213.6		696.0		813.8		1,461.7
2012		774.8		222.1		709.8		829.6		1,484.6
2013		782.8		231.3		725.1		847.8		1,507.9
2014		791.8		240.7		741.4		866.3		1,533.3
2015		800.0		249.4		756.7		882.1		1,556.7
2016		805.5		258.4		770.5		897.9		1,576.0
2017		810.8		266.6		783.2		910.9		1,594.0
2018		814.3		274.9		794.7		923.9		1,609.0
2019		820.7		283.9		807.3		939.3		1,628.0
2020		827.0		291.5		820.1		952.3		1,647.1
2021		833.5		299.0		829.1		962.4		1,662.6
2022		839.1		305.6		836.7		969.7		1,675.8
2023		843.6		312.8		843.9		978.4		1,687.5
2024		851.4		321.2		853.0		990.2		1,704.4
2025		860.3		329.4		863.3		1,000.9		1,723.6
2026		867.7		337.3		872.5		1,011.0		1,740.1
2027		876.1		345.4		881.4		1,021.1		1,757.5
2028		885.6		354.0		890.9		1,032.3		1,776.6
2029		895.7		362.3		900.4		1,042.4		1,796.1
2030		903.6		370.3		907.5		1,050.0		1,811.1
	3.0%	2.5%	2.2%	4.4%	2.1%	2.6%	2.9%	2.7%	2.6%	2.6%
		1.8%		4.7%		2.2%		1.7%		2.0%
		1.0%		4.0%		2.1%		2.0%		1.5%
		0.7%		3.2%		1.6%		1.5%		1.1%
		0.8%		2.5%		1.0%		1.0%		0.9%
		1.0%		2.4%		1.0%		1.0%		1.0%
		1.0%		3.2%		1.5%		1.4%		1.3%



Plot I-23 Missouri & Kansas Commercial Primary Other MW Peak Demand By End-Use

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	44.1	41.6	2.5	4.3	94.6	99.4	105.2	105.8	138.7	141.0	22.3	17.3	14.9	7.6	21.8	25.5	22.9	25.6	44.1	42.8
1991	48.4	43.1	1.9	4.5	88.6	93.8	111.8	116.4	136.9	136.9	19.0	13.9	10.0	7.8	18.5	22.4	29.5	34.3	37.5	36.3
1992	45.7	45.5	1.1	3.3	113.7	89.8	117.9	126.4	159.4	135.3	23.2	19.0	6.2	6.0	24.8	21.8	31.4	38.5	48.0	40.8
1993	48.3	44.8	-	-	95.6	101.7	107.7	115.9	144.0	146.5	24.5	18.7	23.5	11.9	22.8	27.0	26.4	31.8	47.2	45.7
1994	42.8	42.8	1.8	3.1	93.6	116.7	111.5	113.1	136.4	159.5	18.4	15.1	10.7	5.6	22.4	30.7	30.2	35.1	40.8	45.8
1995	56.0	51.3	2.9	5.5	102.8	102.0	115.0	121.5	158.8	153.2	21.9	16.5	15.1	8.8	23.2	26.3	32.1	38.0	45.1	42.8
1996	56.7	52.9	3.2	5.8	118.3	104.5	121.6	126.6	175.0	157.3	22.1	17.0	17.3	9.3	27.0	27.2	34.2	40.0	49.1	44.2
1997	60.2	56.2	2.1	3.6	109.9	108.7	121.2	119.7	170.1	164.9	23.4	18.0	12.9	6.3	25.8	29.1	34.4	39.0	49.2	47.1
1998	58.8	55.1	2.9	5.8	109.4	113.7	129.2	122.5	168.2	168.8	29.5	22.8	15.1	9.2	28.4	32.9	37.0	39.4	58.0	55.7
1999	65.3	58.2	2.2	4.0	103.6	111.7	129.0	124.1	168.9	169.9	25.4	18.6	11.7	6.5	24.7	30.4	37.4	41.3	50.2	49.0
2000	63.3	55.3	5.3	6.6	96.9	114.3	122.2	126.3	160.2	169.6	31.6	22.7	26.9	9.5	25.6	33.7	36.0	41.8	57.2	56.4
2001	61.6	56.4	2.3	4.5	111.1	115.2	129.6	126.7	172.8	171.6	31.0	23.4	11.2	6.8	29.8	34.3	38.4	43.0	60.8	57.7
2002	66.5	59.5	2.0	4.7	102.1	112.0	130.4	125.5	168.6	171.4	26.1	19.2	8.5	6.6	25.6	31.8	39.0	43.1	51.6	51.0
2003	69.1	58.8	2.7	4.9	105.1	119.1	129.3	125.9	174.2	178.0	35.2	24.6	12.5	6.8	29.0	36.5	39.1	43.7	64.2	61.1
2004	53.1	65.2	3.2	7.8	138.7	90.9	132.9	107.1	191.8	156.0	25.6	20.6	15.7	10.0	33.5	34.7	40.4	43.3	59.2	55.3
2005	58.4	67.5	4.0	8.4	109.8	82.2	136.0	114.0	168.1	149.7	29.4	21.3	19.7	10.8	22.9	30.6	47.1	46.3	52.3	51.8
2006	81.6	69.7	4.0	8.9	76.3	94.0	101.3	108.7	157.9	163.8	28.5	22.5	12.2	10.5	36.5	38.6	49.1	46.4	65.0	61.0
2007		70.4		9.7		96.2		112.2		166.6		22.8		10.8		39.4		48.0		62.2
2008		72.4		10.2		98.9		113.4		171.3		23.5		10.9		40.5		48.5		64.0
2009		73.6		10.8		100.8		115.4		174.3		23.9		11.1		41.3		49.4		65.2
2010		74.1		11.3		102.8		117.6		176.9		24.0		11.2		42.2		50.4		66.2
2011		74.6		11.8		104.8		119.9		179.4		24.2		11.2		43.0		51.3		67.2
2012		75.5		12.3		106.8		122.1		182.3		24.5		11.3		43.8		52.3		68.3
2013		76.2		12.8		109.0		124.6		185.2		24.7		11.5		44.8		53.4		69.5
2014		76.9		13.4		111.3		127.1		188.3		25.0		11.6		45.7		54.5		70.7
2015		77.6		13.9		113.4		129.2		191.0		25.2		11.6		46.6		55.3		71.8
2016		78.0		14.4		115.3		131.4		193.3		25.3		11.7		47.4		56.3		72.7
2017		78.5		14.9		117.2		133.3		195.7		25.5		11.7		48.2		57.1		73.6
2018		78.8		15.4		118.8		135.0		197.6		25.6		11.8		48.8		57.8		74.4
2019		79.4		15.9		120.6		137.3		200.0		25.7		11.9		49.6		58.8		75.3
2020		80.0		16.4		122.6		139.2		202.5		25.9		12.0		50.4		59.6		76.3
2021		80.6		16.9		123.9		140.6		204.5		26.1		12.0		51.0		60.2		77.1
2022		81.1		17.3		125.1		141.8		206.2		26.3		12.1		51.4		60.7		77.7
2023		81.7		17.8		126.2		143.2		207.9		26.5		12.2		51.9		61.3		78.4
2024		82.6		18.3		127.9		145.3		210.4		26.8		12.3		52.6		62.2		79.4
2025		83.6		18.9		129.7		147.2		213.4		27.1		12.5		53.4		63.0		80.5
2026		84.6		19.4		131.4		149.1		216.0		27.4		12.6		54.1		63.8		81.5
2027		85.6		20.0		133.1		151.0		218.7		27.8		12.8		54.8		64.6		82.6
2028		86.8		20.6		135.0		153.1		221.7		28.1		13.0		55.6		65.5		83.7
2029		88.0		21.1		136.8		155.0		224.8		28.5		13.1		56.3		66.4		84.9
2030		89.0		21.7		138.2		156.6		227.3		28.9		13.3		56.9		67.0		85.8
90-'06	3.9%	3.3%	2.9%	4.6%	-1.3%	-0.3%	-0.2%	0.2%	0.8%	0.9%	1.5%	1.6%	-1.3%	2.1%	3.3%	2.6%	4.9%	3.8%	2.5%	2.2%
07-'10		1.7%		5.0%		2.2%		1.6%		2.0%		1.7%		1.1%		2.3%		1.6%		2.1%
10-'15		0.9%		4.2%		2.0%		1.9%		1.6%		0.9%		0.9%		2.0%		1.9%		1.6%
15-'20		0.6%		3.4%		1.6%		1.5%		1.2%		0.6%		0.5%		1.6%		1.5%		1.2%
20-'25		0.9%		2.9%		1.1%		1.1%		1.0%		0.9%		0.9%		1.2%		1.1%		1.1%
25-'30		1.3%		2.8%		1.3%		1.2%		1.3%		1.3%		1.2%		1.3%		1.2%		1.3%
07-'30		1.0%		3.5%		1.6%		1.5%		1.4%		1.0%		0.9%		1.6%		1.5%		1.4%

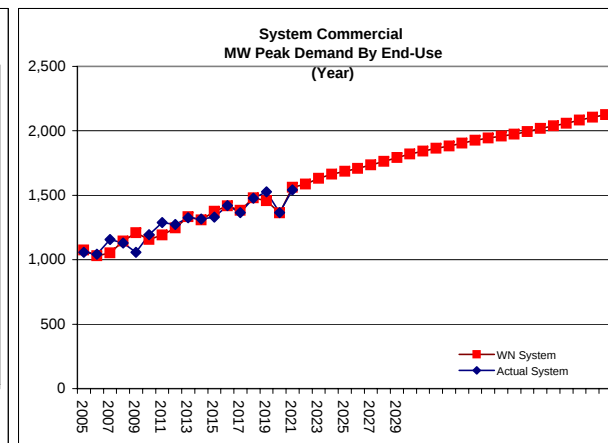
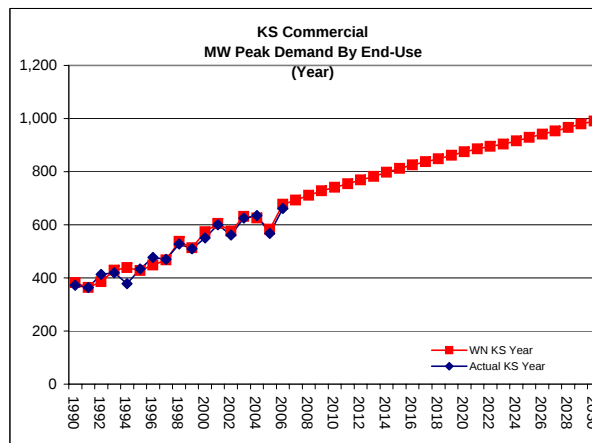
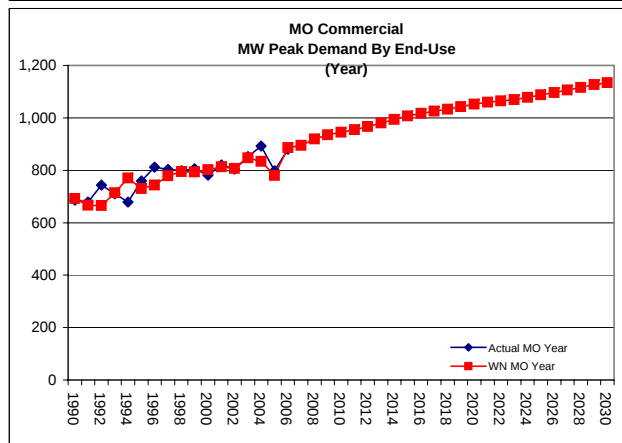
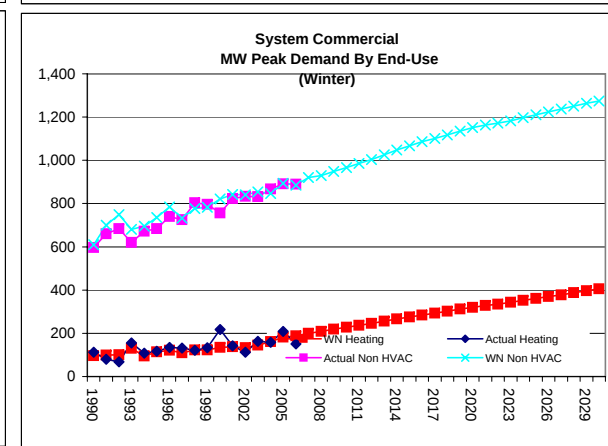
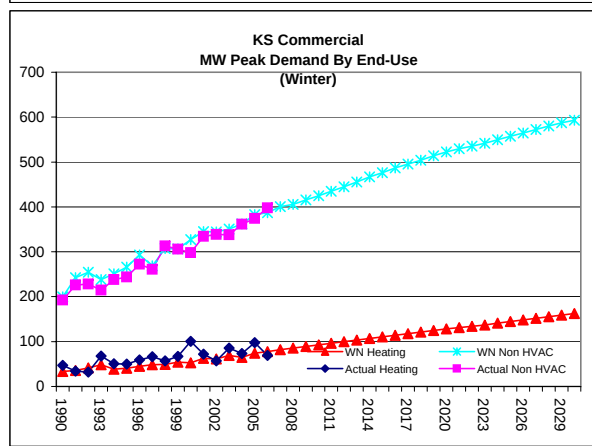
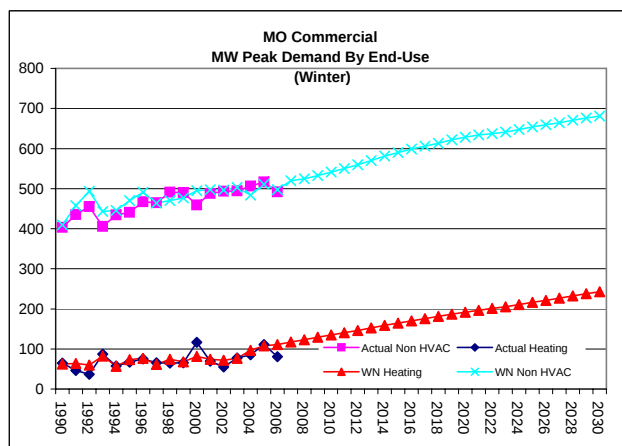
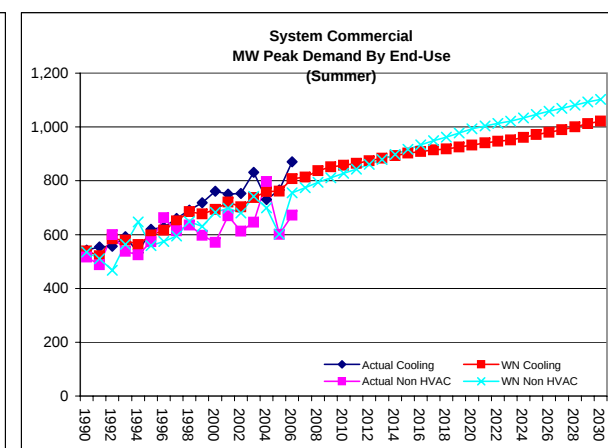
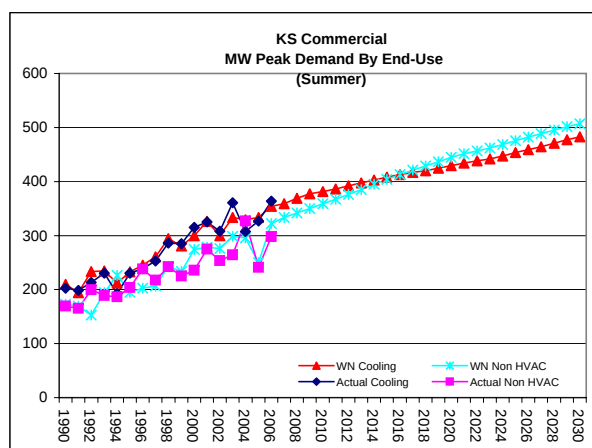
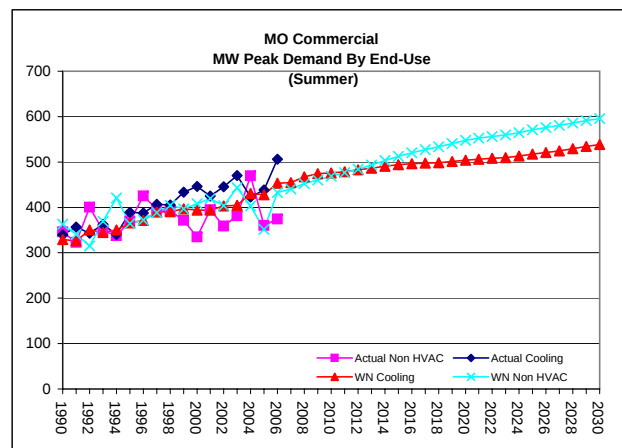
Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	66.4	58.9	17.5	11.9	116.4	124.9	128.1	131.4	182.9	183.8
1991	67.3	57.0	11.8	12.3	107.1	116.2	141.4	150.7	174.4	173.2
1992	68.9	64.5	7.3	9.3	138.5	111.7	149.4	164.9	207.4	176.1
1993	72.8	63.5	23.5	11.9	118.4	128.8	134.2	147.7	191.2	192.2
1994	61.2	58.0	12.4	8.7	116.0	147.4	141.7	148.2	177.2	205.4
1995	77.9	67.8	17.9	14.3	125.9	128.2	147.1	159.5	203.9	196.0
1996	78.8	69.9	20.5	15.1	145.3	131.7	155.8	166.6	224.2	201.5
1997	83.6	74.2	15.1	9.9	135.7	137.8	155.6	158.8	219.3	212.0
1998	88.3	77.9	18.0	15.0	137.8	146.6	166.2	162.0	226.2	224.5
1999	90.7	76.8	13.9	10.5	128.3	142.1	166.5	165.4	219.1	218.9
2000	94.9	78.0	32.1	16.1	122.5	147.9	158.2	168.1	217.4	225.9
2001	92.6	79.8	13.5	11.3	140.9	149.5	167.9	169.7	233.6	229.3
2002	92.6	78.6	10.5	11.3	127.7	143.8	169.5	168.6	220.2	222.4
2003	104.3	83.4	15.2	11.8	134.0	155.6	168.4	169.6	238.4	239.0
2004	78.8	85.8	18.8	17.8	172.2	125.5	173.3	150.4	251.0	211.3
2005	87.8	88.7	23.7	19.2	132.7	112.8	183.1	160.3	220.4	201.5
2006	110.1	92.2	16.2	19.5	112.8	132.6	150.4	155.1	222.9	224.8
2007		93.2		20.5		135.6		160.2		228.8
2008		95.9		21.2		139.4		161.9		235.3
2009		97.4		21.9		142.1		164.9		239.5
2010		98.1		22.4		145.0		168.0		243.1
2011		98.8		23.0		147.8		171.2		246.6
2012		99.9		23.6		150.7		174.4		250.6
2013		100.9		24.3		153.8		178.0		254.6
2014		101.9		24.9		157.0		181.6		258.9
2015		102.8		25.5		160.0		184.6		262.8
2016		103.3		26.1		162.7		187.7		266.0
2017		104.0		26.6		165.4		190.3		269.3
2018		104.3		27.2		167.7		192.9		272.0
2019		105.1		27.8		170.2		196.1		275.3
2020		105.9		28.3		173.0		198.7		278.9
2021		106.7		28.9		174.8		200.9		281.6
2022		107.5		29.4		176.5		202.5		284.0
2023		108.1		30.0		178.2		204.6		286.3
2024		109.3		30.7		180.5		207.5		289.8
2025		110.8		31.4		183.1		210.3		293.9
2026		112.0		32.0		185.5		212.9		297.5
2027		113.4		32.7		187.9		215.6		301.3
2028		114.9		33.5		190.5		218.6		305.4
2029		116.5		34.3		193.1		221.4		309.7
2030		117.9		35.0		195.2		223.6		313.0
	3.2%	2.8%	-0.5%	3.1%	-0.2%	0.4%	1.0%	1.0%	1.2%	1.3%
		1.7%		3.0%		2.3%		1.6%		2.0%
		0.9%		2.6%		2.0%		1.9%		1.6%
		0.6%		2.1%		1.6%		1.5%		1.2%
		0.9%		2.0%		1.1%		1.1%		1.1%
		1.3%		2.2%		1.3%		1.2%		1.3%
		1.0%		2.3%		1.6%		1.5%		1.4%



Plot I-24 Missouri & Kansas Commercial MW Peak Demand By End-Use

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	339.8	329.0	65.0	62.7	346.2	362.8	403.4	409.7	686.1	691.8	202.5	209.5	47.2	33.7	169.6	172.8	192.7	199.6	372.1	382.3
1991	356.5	326.1	46.6	63.7	322.7	340.5	434.8	457.2	679.1	666.6	198.2	194.6	34.0	35.4	165.3	169.4	225.7	242.5	363.5	363.9
1992	343.1	350.7	36.9	59.8	400.3	315.1	455.3	493.8	743.3	665.7	213.4	233.2	31.8	41.2	199.5	152.8	228.5	254.7	412.9	386.0
1993	362.2	344.8	87.0	82.4	348.6	369.4	405.9	442.8	710.8	714.2	230.4	234.6	67.8	48.3	188.7	194.5	214.7	238.2	419.1	429.1
1994	340.7	350.1	57.5	56.6	337.9	420.5	433.9	445.4	678.6	770.6	192.3	211.9	50.4	38.6	186.4	226.3	237.9	250.8	378.7	438.3
1995	389.2	366.0	67.3	73.8	369.6	364.2	440.7	470.2	758.8	730.3	230.6	232.8	50.0	40.8	203.6	194.9	243.4	266.1	434.2	427.6
1996	387.6	371.2	75.1	76.7	424.7	372.2	467.2	491.1	812.4	743.5	238.6	245.4	59.2	45.2	237.9	202.4	272.2	293.1	476.6	447.8
1997	406.8	390.1	65.4	61.2	396.0	388.4	464.6	464.0	802.8	778.4	252.9	260.5	66.6	48.6	217.3	206.9	261.0	268.8	470.2	467.4
1998	405.5	390.2	64.7	74.0	392.7	404.7	491.0	470.1	798.2	794.9	285.9	294.7	57.0	49.2	242.1	243.0	312.8	307.0	528.1	537.7
1999	433.7	396.7	65.8	67.7	371.6	397.0	490.1	476.7	805.3	793.7	285.1	280.5	66.9	54.4	225.0	233.4	305.5	306.3	510.1	513.9
2000	446.3	393.9	116.9	81.4	334.8	408.1	458.9	494.6	781.0	802.0	315.0	299.8	100.3	52.5	235.7	274.1	298.0	327.2	550.7	573.9
2001	425.1	394.2	69.5	74.5	394.7	419.3	487.6	497.6	819.8	813.5	325.2	326.5	72.2	63.0	275.0	278.5	334.5	344.9	600.2	605.0
2002	445.5	403.1	54.9	71.7	358.7	403.9	493.8	496.4	804.2	806.9	307.8	299.8	57.1	61.0	253.7	276.3	338.8	344.3	561.5	576.0
2003	470.3	404.5	77.2	76.6	381.6	443.1	494.2	502.7	851.9	847.6	360.7	333.2	85.9	68.9	264.2	298.6	338.0	350.7	624.9	631.8
2004	423.1	430.4	85.6	97.0	469.3	403.1	505.9	483.5	892.3	833.5	307.4	329.0	73.5	64.8	327.1	295.7	361.4	362.4	634.5	624.8
2005	438.8	428.1	111.2	107.7	359.9	352.1	516.9	511.2	798.7	780.2	326.9	333.5	97.7	74.4	240.9	249.9	374.0	382.5	567.8	583.4
2006	506.2	453.1	80.9	110.8	374.2	432.9	492.1	497.8	880.3	886.0	364.0	354.5	69.4	77.4	297.9	322.1	397.4	386.9	661.9	676.6
2007		454.6		117.3		440.3		519.6		894.9		358.9		82.3		333.7		400.3		692.7
2008		467.4		123.0		452.3		524.3		919.7		369.2		85.6		341.9		405.8		711.1
2009		474.5		129.2		460.6		532.9		935.1		377.2		89.4		350.3		415.3		727.5
2010		476.2		134.9		468.5		541.4		944.7		381.5		92.8		359.0		425.0		740.5
2011		478.4		140.4		476.3		550.2		954.7		386.2		96.2		367.5		434.8		753.7
2012		482.6		146.1		484.5		559.5		967.1		392.1		99.7		376.0		444.5		768.1
2013		486.4		152.3		493.7		570.3		980.1		397.2		103.3		385.2		455.4		782.4
2014		490.7		158.5		503.6		581.3		994.3		403.0		107.1		394.9		466.6		797.9
2015		494.4		164.3		512.6		590.2		1,007.0		408.4		110.6		404.1		476.4		812.5
2016		496.3		170.2		520.4		599.0		1,016.7		412.6		114.3		412.8		486.6		825.3
2017		498.0		175.5		527.5		606.0		1,025.5		416.8		117.7		421.1		495.3		837.9
2018		498.6		180.9		533.7		612.9		1,032.4		420.0		121.2		428.6		503.9		848.6
2019		501.1		186.8		540.8		621.6		1,041.9		424.6		124.9		436.7		513.8		861.4
2020		503.7		191.8		548.1		628.7		1,051.8		429.2		128.1		444.9		522.3		874.1
2021		506.3		196.7		552.8		633.8		1,059.1		433.9		131.3		451.1		529.4		885.0
2022		508.4		200.9		556.5		637.1		1,064.9		438.1		134.1		456.7		535.1		894.8
2023		509.8		205.5		560.1		641.4		1,069.9		441.9		137.2		462.0		541.6		904.0
2024		513.3		211.0		565.0		647.8		1,078.3		447.5		140.9		468.5		549.8		916.0
2025		517.5		216.3		570.7		653.7		1,088.2		453.6		144.5		475.6		557.5		929.2
2026		520.8		221.3		575.8		659.1		1,096.7		458.8		148.0		482.2		564.8		941.0
2027		524.8		226.5		580.7		664.6		1,105.5		464.7		151.6		488.6		572.1		953.3
2028		529.5		232.2		586.1		670.9		1,115.6		471.1		155.4		495.3		580.0		966.4
2029		534.6		237.5		591.6		676.6		1,126.2		477.6		159.0		501.9		587.1		979.6
2030		538.5		242.8		595.5		680.8		1,134.0		483.0		162.5		507.1		592.9		990.1
90-'06	2.5%	2.0%	1.4%	3.6%	0.5%	1.1%	1.2%	1.2%	1.6%	1.6%	3.7%	3.3%	2.4%	5.3%	3.6%	4.0%	4.6%	4.2%	3.7%	3.6%
07-'10		1.6%		4.8%		2.1%		1.4%		1.8%		2.1%		4.1%		2.5%		2.0%		2.2%
10-'15		0.8%		4.0%		1.8%		1.7%		1.3%		1.4%		3.6%		2.4%		2.3%		1.9%
15-'20		0.4%				1.3%		1.3%		0.9%		1.0%		3.0%		1.9%		1.9%		1.5%
20-'25		0.5%		2.4%		0.8%		0.8%		0.7%		1.1%		2.4%		1.3%		1.3%		1.2%
25-'30		0.8%		2.3%		0.9%		0.8%		0.8%		1.3%		2.4%		1.3%		1.2%		1.3%
30-'30		0.7%		3.2%		1.3%		1.2%		1.0%		1.3%		3.0%		1.8%		1.7%		1.6%

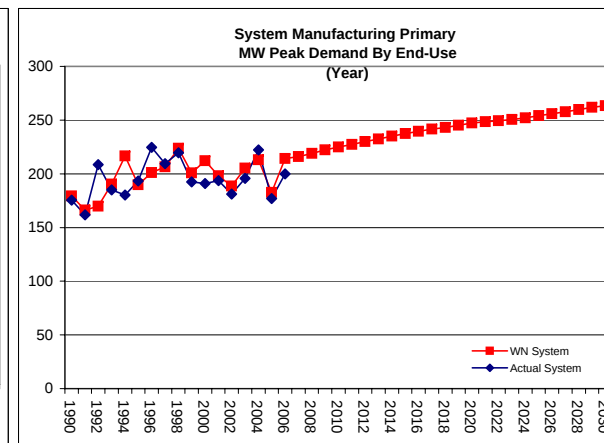
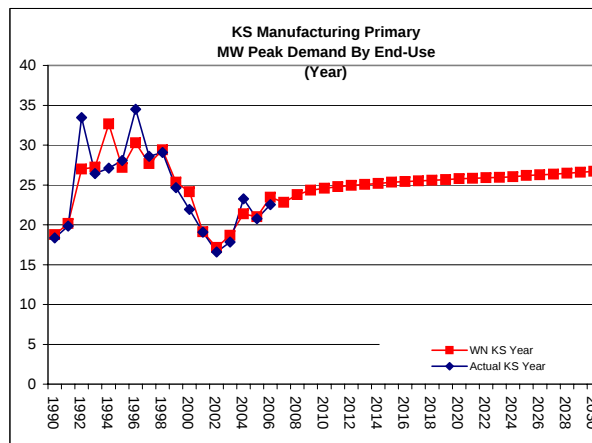
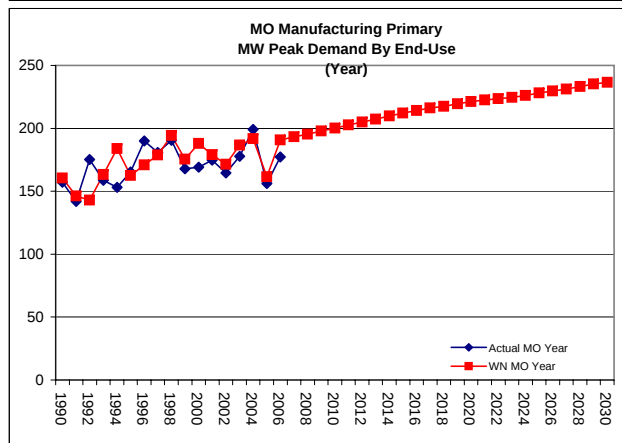
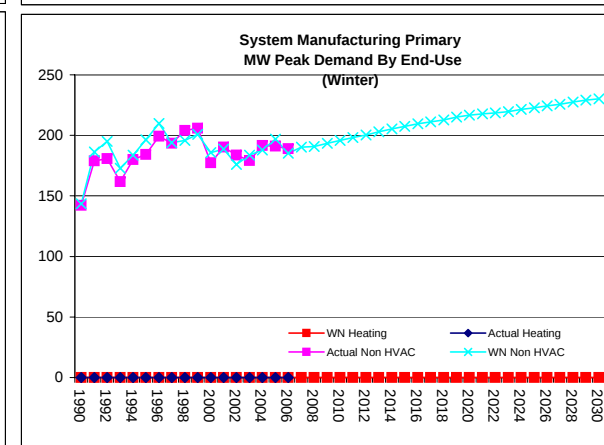
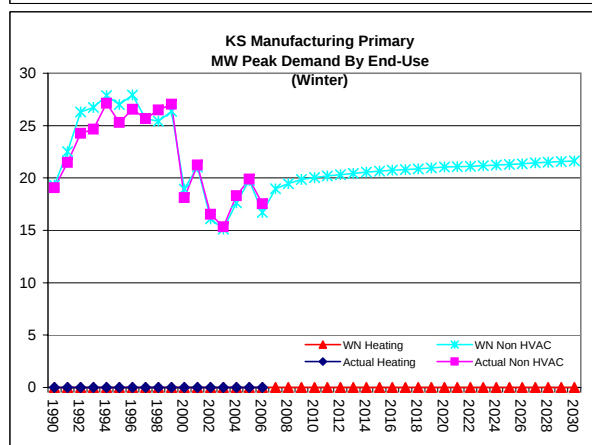
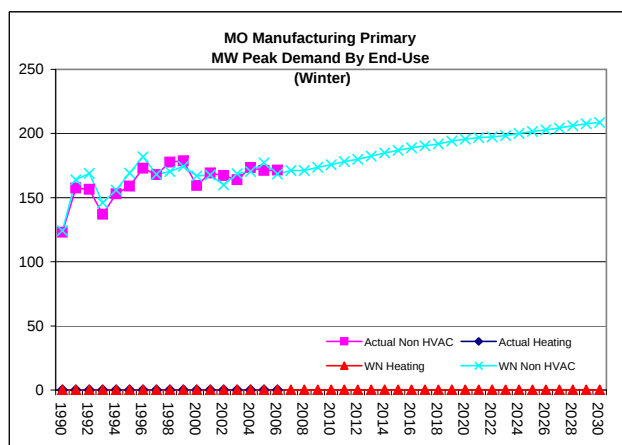
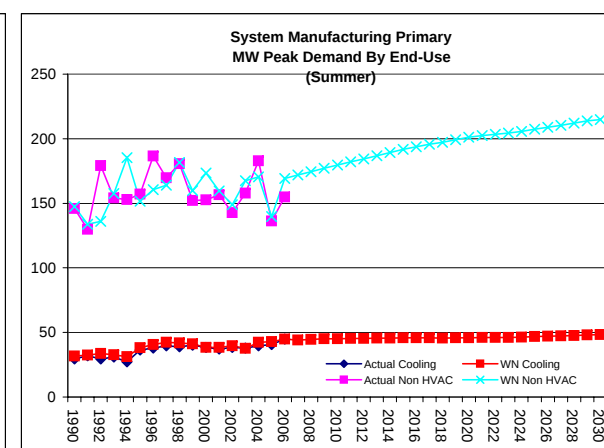
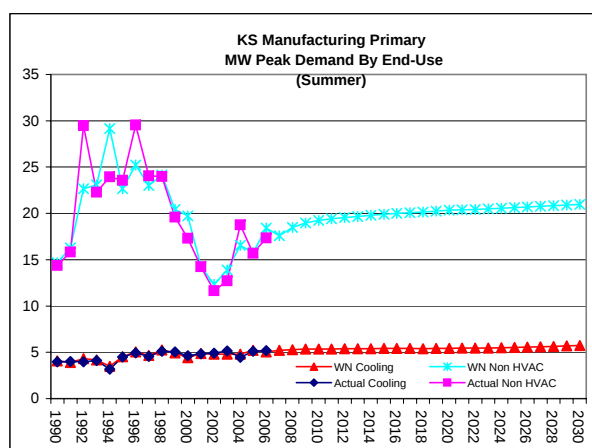
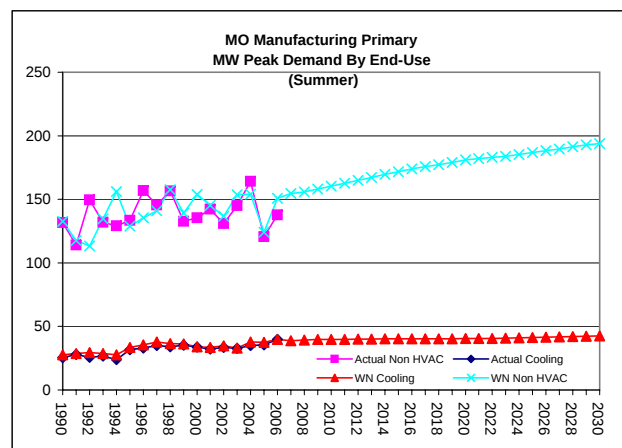
Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	542.4	538.5	112.2	96.3	515.8	535.6	596.1	609.3	1,058.1	1,074.1
1991	554.7	520.7	80.6	99.1	487.9	509.9	660.6	699.7	1,042.7	1,030.5
1992	556.5	583.8	68.7	101.0	599.8	467.9	683.8	748.5	1,156.2	1,051.7
1993	592.6	579.4	154.8	130.7	537.4	563.9	620.6	681.0	1,129.9	1,143.4
1994	533.0	562.0	107.9	95.2	524.3	646.9	671.9	696.2	1,057.4	1,208.8
1995	619.9	598.8	117.3	114.6	573.2	559.1	684.2	736.2	1,193.1	1,157.9
1996	626.3	616.6	134.3	121.9	662.7	574.6	739.5	784.2	1,288.9	1,191.3
1997	659.7	650.6	132.0	109.8	613.3	595.2	725.6	732.9	1,273.0	1,245.8
1998	691.4	684.9	121.7	123.2	634.9	647.7	803.8	777.0	1,326.3	1,332.5
1999	718.8	677.2	132.7	122.1	596.6	630.4	795.6	783.1	1,315.4	1,307.6
2000	761.3	693.7	217.2	133.9	570.5	682.2	756.9	821.8	1,331.7	1,375.8
2001	750.3	720.7	141.7	137.5	669.7	697.8	822.1	842.6	1,420.0	1,418.5
2002	753.3	702.8	112.1	132.7	612.4	680.1	832.6	840.7	1,365.7	1,383.0
2003	831.0	737.7	163.1	145.5	645.7	741.7	832.2	853.4	1,476.7	1,479.4
2004	730.4	759.4	159.0	161.8	796.3	698.9	867.3	845.9	1,526.8	1,458.3
2005	765.7	761.7	209.0	182.1	600.8	602.0	890.9	893.6	1,366.5	1,363.7
2006	870.1	807.6	150.3	188.2	672.1	754.9	889.5	884.7	1,542.2	1,562.5
2007		813.5		199.6		774.1		919.9		1,587.6
2008		836.7		208.6		794.2		930.0		1,630.9
2009		851.7		218.7		810.9		948.1		1,662.6
2010		857.7		227.7		827.5		966.5		1,685.2
2011		864.6		236.6		843.8		985.0		1,708.3
2012		874.7		245.8		860.5	1,004.0			1,735.2
2013		883.6		255.6		878.9	1,025.7			1,762.5
2014		893.7		265.6		898.5	1,047.9			1,792.2
2015		902.8		274.9		916.7	1,066.6			1,819.5
2016		908.8		284.5		933.2	1,085.6			1,842.0
2017		914.7		293.3		948.6	1,101.3			1,863.3
2018		918.6		302.1		962.3	1,116.7			1,881.0
2019		925.8		311.7		977.5	1,135.4			1,903.3
2020		932.9		319.9		993.0	1,151.0			1,926.0
2021		940.2		327.9		1,003.9	1,163.3			1,944.1
2022		946.5		334.9		1,013.2	1,172.1			1,959.8
2023		951.7		342.7		1,022.1	1,182.9			1,973.8
2024		960.8		351.9		1,033.5	1,197.7			1,994.3
2025		971.1		360.7		1,046.4	1,211.2			2,017.4
2026		979.6		369.3		1,058.0	1,223.9			2,037.7
2027		989.4		378.1		1,069.4	1,236.7			2,058.8
2028		1,000.6		387.6		1,081.4	1,250.9			2,082.0
2029		1,012.2		396.6		1,093.5	1,263.7			2,105.8
2030		1,021.5		405.3		1,102.6	1,273.6			2,124.1
	3.0%	2.6%	1.8%	4.3%	1.7%	2.2%	2.5%	2.4%	2.4%	2.4%
		1.8%		4.5%		2.3%		1.7%		2.0%
		1.0%		3.8%		2.1%		2.0%		1.5%
		0.7%		3.1%		1.6%		1.5%		1.1%
		0.8%		2.4%		1.1%		1.0%		0.9%
		1.0%		2.4%		1.1%		1.0%		1.0%
		1.0%		3.1%		1.6%		1.4%		1.3%



Plot I-25 Missouri & Kansas Manufacturing Primary MW Peak Demand By End-Use

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	25.5	27.8	-	-	131.5	132.8	123.1	124.1	157.1	160.5	4.0	4.1	-	-	14.4	14.7	19.1	19.3	18.3	18.7
1991	27.8	28.6	-	-	114.1	117.5	157.4	163.9	141.9	146.1	4.0	3.9	-	-	15.8	16.3	21.5	22.5	19.9	20.2
1992	25.6	29.4	-	-	149.6	113.4	156.4	168.8	175.2	142.8	4.0	4.3	-	-	29.5	22.7	24.3	26.3	33.4	27.0
1993	26.8	28.7	-	-	131.8	134.6	137.0	146.1	158.6	163.3	4.1	4.2	-	-	22.3	23.1	24.6	26.7	26.4	27.2
1994	24.0	27.7	-	-	129.1	156.1	152.9	155.8	153.0	183.8	3.2	3.5	-	-	23.9	29.2	27.1	27.9	27.1	32.7
1995	31.8	33.6	-	-	133.4	128.9	158.8	169.2	165.2	162.6	4.5	4.5	-	-	23.6	22.7	25.3	27.0	28.1	27.2
1996	33.0	35.5	-	-	157.0	135.3	172.8	181.9	190.0	170.9	5.0	5.1	-	-	29.5	25.2	26.5	27.9	34.5	30.3
1997	35.1	37.8	-	-	145.6	141.0	167.9	168.3	180.7	178.8	4.5	4.7	-	-	24.0	23.0	25.7	25.7	28.6	27.7
1998	33.9	36.6	-	-	156.6	157.6	177.5	170.5	190.5	194.2	5.1	5.3	-	-	24.0	24.1	26.5	25.4	29.1	29.4
1999	35.1	36.1	-	-	132.6	139.3	178.7	174.4	167.8	175.4	5.0	4.9	-	-	19.6	20.4	27.1	26.4	24.6	25.3
2000	33.8	34.0	-	-	135.4	153.8	159.3	166.8	169.2	187.8	4.6	4.4	-	-	17.3	19.7	18.1	18.9	21.9	24.2
2001	32.3	33.6	-	-	142.3	145.4	169.1	167.8	174.6	179.0	4.8	4.9	-	-	14.2	14.3	21.2	21.1	19.1	19.1
2002	33.6	34.8	-	-	131.0	136.7	167.1	159.8	164.6	171.4	4.9	4.8	-	-	11.7	12.3	16.5	16.1	16.6	17.1
2003	32.7	33.0	-	-	145.1	153.7	163.8	168.6	177.8	186.6	5.1	4.8	-	-	12.7	13.9	15.3	15.1	17.8	18.7
2004	35.1	37.7	-	-	164.0	154.0	173.4	170.3	199.1	191.6	4.5	4.8	-	-	18.8	16.6	18.3	17.6	23.2	21.4
2005	35.5	37.6	-	-	120.5	124.0	171.2	177.1	156.1	161.6	5.1	5.2	-	-	15.7	15.8	19.9	19.8	20.8	21.0
2006	39.7	39.8	-	-	137.6	150.8	171.4	168.5	177.3	190.7	5.2	5.1	-	-	17.3	18.4	17.5	16.7	22.5	23.5
2007		38.8	-	-		154.5		171.2		193.3		5.2	-			17.6		19.0		22.8
2008		39.4	-	-		155.8		171.2		195.2		5.3	-			18.5		19.5		23.8
2009		39.8	-	-		158.1		173.5		197.9		5.3	-			19.0		19.8		24.3
2010		39.8	-	-		160.4		175.8		200.3		5.3	-			19.2		20.1		24.6
2011		39.9	-	-		162.7		178.0		202.6		5.4	-			19.4		20.2		24.8
2012		40.1	-	-		164.9		180.0		204.9		5.4	-			19.5		20.3		24.9
2013		40.1	-	-		167.1		182.4		207.2		5.4	-			19.7		20.4		25.1
2014		40.3	-	-		169.6		184.9		209.9		5.4	-			19.8		20.5		25.2
2015		40.4	-	-		171.8		186.8		212.2		5.4	-			19.9		20.6		25.3
2016		40.4	-	-		173.8		188.9		214.2		5.4	-			20.0		20.7		25.4
2017		40.4	-	-		175.7		190.5		216.1		5.4	-			20.1		20.8		25.5
2018		40.3	-	-		177.2		192.0		217.4		5.4	-			20.2		20.9		25.6
2019		40.4	-	-		179.1		194.1		219.4		5.4	-			20.3		21.0		25.7
2020		40.4	-	-		180.9		195.6		221.4		5.4	-			20.3		21.0		25.8
2021		40.5	-	-		182.0		196.8		222.6		5.4	-			20.4		21.1		25.8
2022		40.6	-	-		182.9		197.4		223.6		5.5	-			20.4		21.1		25.9
2023		40.7	-	-		183.8		198.4		224.5		5.5	-			20.5		21.2		26.0
2024		40.9	-	-		185.2		200.1		226.1		5.5	-			20.5		21.2		26.0
2025		41.2	-	-		186.8		201.6		228.0		5.5	-			20.6		21.3		26.2
2026		41.4	-	-		188.3		202.9		229.7		5.6	-			20.7		21.4		26.3
2027		41.7	-	-		189.6		204.3		231.3		5.6	-			20.8		21.4		26.4
2028		42.0	-	-		191.2		206.0		233.2		5.6	-			20.8		21.5		26.5
2029		42.4	-	-		192.9		207.5		235.3		5.7	-			20.9		21.6		26.6
2030		42.7	-	-		193.9		208.5		236.6		5.7	-			21.0		21.6		26.7
90-'06	2.8%	2.3%	0.0%	0.0%	0.3%	0.8%	2.1%	1.9%	0.8%	1.1%	1.7%	1.4%	0.0%	0.0%	1.2%	1.4%	-0.5%	-0.9%	1.3%	1.4%
07-'10		0.8%		0.0%		1.3%		0.9%		1.2%		0.7%		0.0%		3.1%		1.9%		2.5%
10-'15		0.3%		0.0%		1.4%		1.2%		1.2%		0.3%		0.0%		0.7%		0.6%		0.6%
15-'20		0.0%		0.0%		1.0%		0.9%		0.8%		0.0%		0.0%		0.4%		0.4%		0.4%
20-'25		0.4%		0.0%		0.6%		0.6%		0.6%		0.4%		0.0%		0.3%		0.2%		0.3%
25-'30		0.7%		0.0%		0.7%		0.7%		0.7%		0.7%		0.0%		0.3%		0.3%		0.4%
07-'30		0.4%		0.0%		1.0%		0.9%		0.9%		0.4%		0.0%		0.8%		0.6%		0.7%

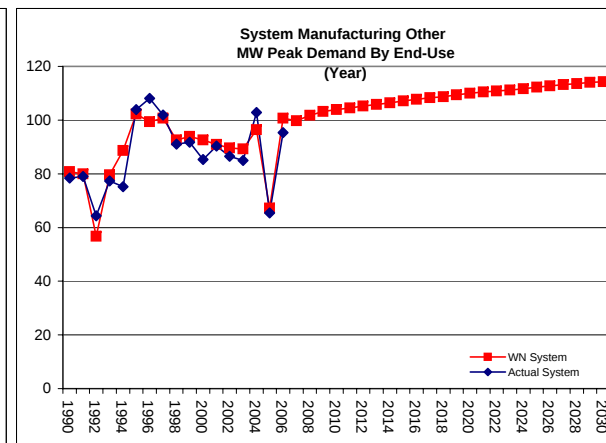
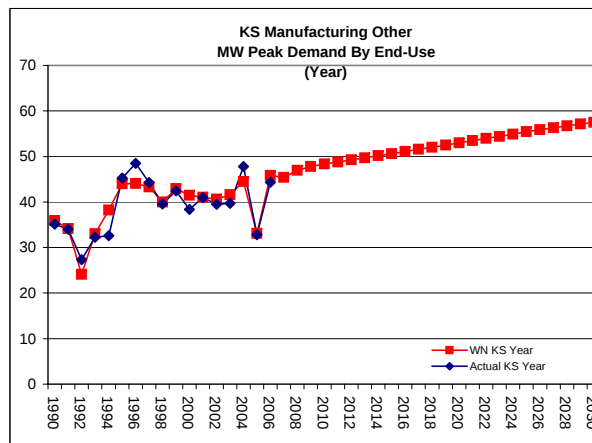
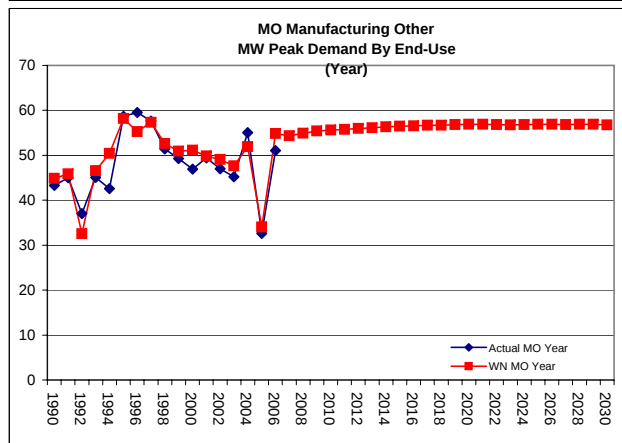
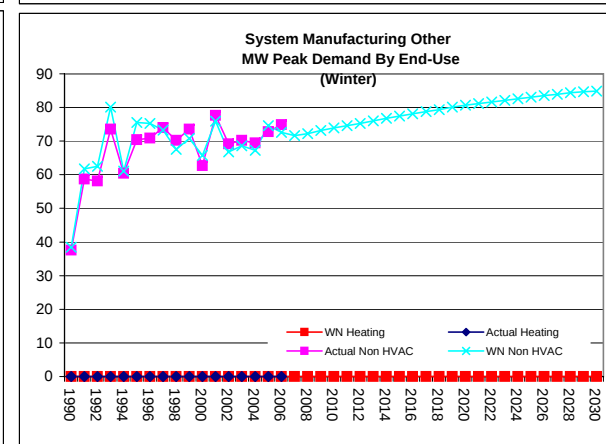
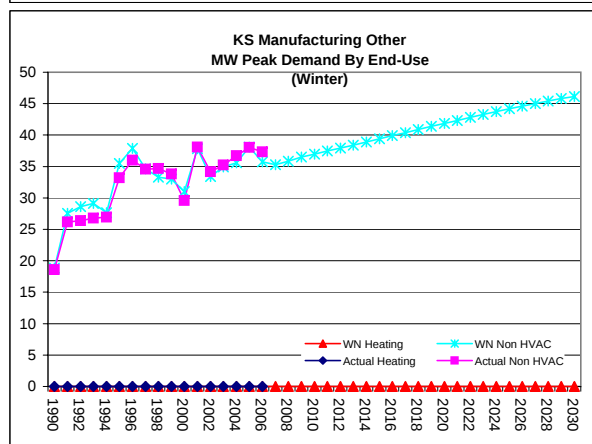
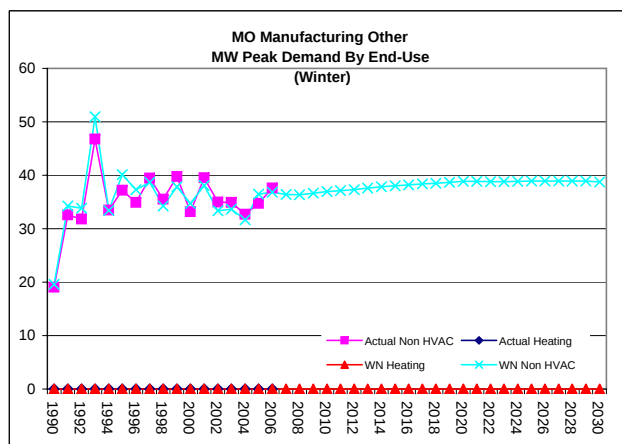
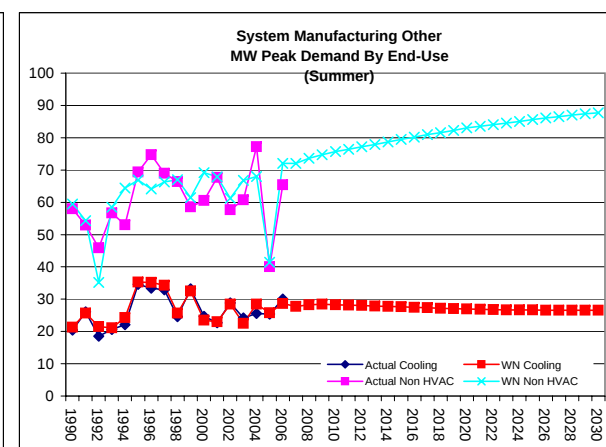
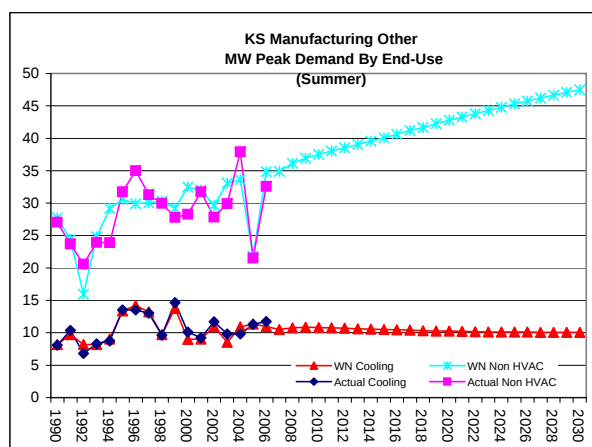
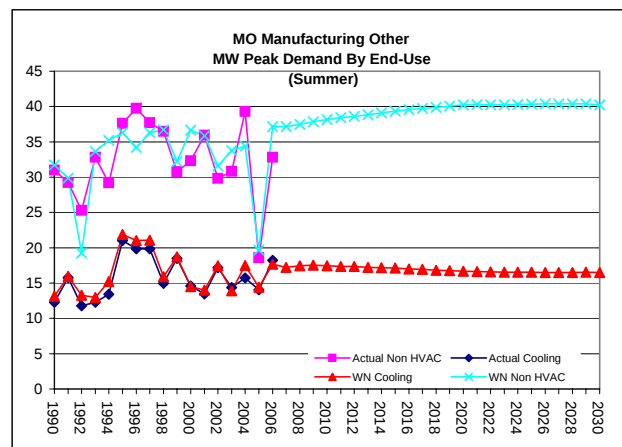
Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	29.5	31.8	-	-	145.9	147.5	142.2	143.4	175.4	179.3
1991	31.9	32.5	-	-	129.9	133.8	178.8	186.4	161.8	166.3
1992	29.6	33.7	-	-	179.1	136.0	180.7	195.1	208.7	169.8
1993	30.9	32.8	-	-	154.1	157.7	161.7	172.8	185.0	190.5
1994	27.2	31.1	-	-	153.0	185.3	180.1	183.7	180.2	216.5
1995	36.3	38.1	-	-	157.0	151.6	184.1	196.2	193.3	189.7
1996	38.0	40.6	-	-	186.5	160.6	199.3	209.8	224.5	201.2
1997	39.7	42.5	-	-	169.6	164.0	193.5	193.9	209.3	206.5
1998	39.0	41.9	-	-	180.5	181.7	204.0	195.9	219.5	223.6
1999	40.2	41.1	-	-	152.2	159.7	205.8	200.7	192.4	200.8
2000	38.4	38.4	-	-	152.7	173.6	177.4	185.8	191.1	212.0
2001	37.2	38.5	-	-	156.5	159.6	190.4	188.8	193.7	198.1
2002	38.5	39.6	-	-	142.7	149.0	183.6	175.9	181.1	188.5
2003	37.9	37.8	-	-	157.8	167.6	179.2	183.7	195.6	205.3
2004	39.6	42.5	-	-	182.8	170.5	191.7	188.0	222.4	213.0
2005	40.7	42.8	-	-	136.2	139.8	191.1	196.8	176.8	182.6
2006	44.9	44.9	-	-	154.9	169.2	188.9	185.2	199.9	214.1
2007		44.1		-		172.0		190.2		216.1
2008		44.7		-		174.3		190.7		219.0
2009		45.1		-		177.0		193.4		222.2
2010		45.2		-		179.7		195.8		224.8
2011		45.3		-		182.2		198.2		227.4
2012		45.5		-		184.4		200.3		229.9
2013		45.5		-		186.7		202.8		232.3
2014		45.7		-		189.4		205.4		235.1
2015		45.8		-		191.7		207.5		237.5
2016		45.8		-		193.9		209.6		239.6
2017		45.8		-		195.8		211.3		241.6
2018		45.7		-		197.3		212.8		243.0
2019		45.8		-		199.3		215.1		245.1
2020		45.9		-		201.3		216.7		247.1
2021		46.0		-		202.4		217.8		248.4
2022		46.1		-		203.4		218.5		249.5
2023		46.2		-		204.3		219.5		250.5
2024		46.4		-		205.7		221.4		252.1
2025		46.7		-		207.5		222.9		254.2
2026		47.0		-		209.0		224.3		255.9
2027		47.3		-		210.4		225.8		257.6
2028		47.7		-		212.1		227.5		259.7
2029		48.1		-		213.8		229.1		261.9
2030		48.4		-		214.9		230.2		263.3
	2.7%	2.2%	#DIV/0!	#DIV/0!	0.4%	0.9%	1.8%	1.6%	0.8%	1.1%
		0.8%		#DIV/0!		1.5%		1.0%		1.3%
		0.3%		#DIV/0!		1.3%		1.2%		1.1%
		0.0%		#DIV/0!		1.0%		0.9%		0.8%
		0.4%		#DIV/0!		0.6%		0.6%		0.6%
		0.7%		#DIV/0!		0.7%		0.6%		0.7%
		0.4%		#DIV/0!		1.0%		0.8%		0.9%



Plot I-26 Missouri & Kansas Manufacturing Other MW Peak Demand By End-Use

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	12.3	13.2	-	-	31.0	31.7	19.0	19.6	43.3	44.9	8.1	8.2	-	-	27.0	27.7	18.6	18.8	35.1	35.9
1991	15.8	15.9	-	-	29.2	29.9	32.5	34.2	45.0	45.8	10.3	9.7	-	-	23.7	24.4	26.2	27.5	34.0	34.1
1992	11.8	13.3	-	-	25.3	19.3	31.8	33.8	37.0	32.6	6.8	8.2	-	-	20.6	15.9	26.4	28.6	27.4	24.1
1993	12.3	12.9	-	-	32.8	33.6	46.7	51.0	45.1	46.6	8.3	8.2	-	-	23.9	24.8	26.8	29.1	32.3	33.0
1994	13.4	15.2	-	-	29.2	35.2	33.5	33.4	42.6	50.4	8.8	9.0	-	-	23.9	29.2	26.9	27.7	32.6	38.2
1995	21.0	21.9	-	-	37.6	36.3	37.2	40.1	58.7	58.2	13.5	13.4	-	-	31.7	30.6	33.2	35.5	45.3	44.0
1996	19.8	21.0	-	-	39.7	34.2	34.9	37.3	59.6	55.2	13.5	14.2	-	-	35.0	29.9	36.0	37.9	48.5	44.1
1997	19.9	21.1	-	-	37.7	36.3	39.5	38.7	57.6	57.4	13.0	13.2	-	-	31.3	30.1	34.6	34.6	44.3	43.3
1998	15.0	15.9	-	-	36.5	36.7	35.5	34.3	51.4	52.6	9.6	9.7	-	-	29.9	30.3	34.7	33.3	39.6	40.0
1999	18.5	18.7	-	-	30.8	32.2	39.7	37.8	49.3	50.9	14.7	13.8	-	-	27.8	29.2	33.8	33.0	42.4	43.0
2000	14.6	14.5	-	-	32.3	36.7	33.2	34.7	46.9	51.2	10.1	9.0	-	-	28.3	32.5	29.6	31.0	38.4	41.5
2001	13.5	14.0	-	-	35.9	35.8	39.5	38.1	49.4	49.8	9.2	9.0	-	-	31.7	32.0	38.1	37.8	41.0	41.0
2002	17.2	17.4	-	-	29.8	31.6	35.0	33.4	47.0	49.0	11.7	11.0	-	-	27.8	29.7	34.2	33.4	39.5	40.6
2003	14.4	13.9	-	-	30.8	33.8	34.9	33.7	45.2	47.6	9.8	8.6	-	-	29.9	33.1	35.2	34.9	39.7	41.6
2004	15.7	17.5	-	-	39.3	34.4	32.7	31.7	55.0	51.9	9.8	10.9	-	-	37.9	33.6	36.7	35.6	47.8	44.5
2005	14.0	14.4	-	-	18.6	19.6	34.8	36.5	32.6	34.0	11.3	11.3	-	-	21.5	21.8	38.0	38.1	32.8	33.1
2006	18.2	17.7	-	-	32.8	37.2	37.6	36.8	51.0	54.8	11.7	11.0	-	-	32.6	34.9	37.3	35.7	44.3	45.8
2007		17.2	-	-		37.1		36.4		54.4		10.5	-		34.9		35.3			45.4
2008		17.4	-	-		37.5		36.3		54.9		10.8	-		36.1		35.8			46.9
2009		17.5	-	-		37.8		36.7		55.4		10.9	-		36.9		36.5			47.8
2010		17.5	-	-		38.2		36.9		55.6		10.8	-		37.5		37.0			48.3
2011		17.4	-	-		38.4		37.1		55.8		10.7	-		38.0		37.5			48.8
2012		17.3	-	-		38.6		37.3		56.0		10.7	-		38.6		37.9			49.3
2013		17.2	-	-		38.8		37.6		56.1		10.6	-		39.1		38.4			49.7
2014		17.2	-	-		39.1		37.8		56.3		10.6	-		39.6		38.9			50.2
2015		17.1	-	-		39.3		38.0		56.5		10.5	-		40.1		39.4			50.6
2016		17.0	-	-		39.6		38.2		56.6		10.5	-		40.6		39.9			51.1
2017		16.9	-	-		39.7		38.4		56.7		10.4	-		41.2		40.4			51.6
2018		16.8	-	-		39.9		38.5		56.7		10.3	-		41.7		40.9			52.0
2019		16.8	-	-		40.1		38.7		56.8		10.3	-		42.2		41.4			52.5
2020		16.7	-	-		40.2		38.8		56.9		10.2	-		42.8		41.9			53.0
2021		16.7	-	-		40.3		38.9		56.9		10.2	-		43.3		42.3			53.5
2022		16.6	-	-		40.3		38.8		56.9		10.2	-		43.8		42.8			54.0
2023		16.5	-	-		40.2		38.8		56.8		10.1	-		44.3		43.3			54.4
2024		16.5	-	-		40.3		38.9		56.8		10.1	-		44.8		43.7			54.9
2025		16.5	-	-		40.3		38.9		56.9		10.1	-		45.3		44.2			55.4
2026		16.5	-	-		40.4		38.9		56.9		10.1	-		45.8		44.6			55.8
2027		16.5	-	-		40.4		38.9		56.9		10.1	-		46.2		45.0			56.3
2028		16.5	-	-		40.4		38.9		56.9		10.1	-		46.7		45.4			56.7
2029		16.5	-	-		40.4		38.9		56.9		10.1	-		47.1		45.8			57.2
2030		16.5	-	-		40.2		38.7		56.7		10.1	-		47.5		46.2			57.5
90-'06	2.5%	1.9%	0.0%	0.0%	0.4%	1.0%	4.3%	4.0%	1.0%	1.3%	2.4%	1.9%	0.0%	0.0%	1.2%	1.4%	4.5%	4.1%	1.5%	1.5%
07-'10		0.5%		0.0%		0.9%		0.5%		0.8%		0.9%		0.0%		2.5%		1.6%		2.1%
10-'15		-0.4%		0.0%		0.6%		0.6%		0.3%		-0.5%		0.0%		1.3%		1.3%		0.9%
15-'20		-0.5%		0.0%		0.4%		0.4%		0.2%		-0.5%		0.0%		1.3%		1.2%		0.9%
20-'25		-0.2%		0.0%		0.1%		0.0%		0.0%		-0.2%		0.0%		1.2%		1.1%		0.9%
25-'30		-0.1%		0.0%		0.0%		-0.1%		-0.1%		-0.1%		0.0%		0.9%		0.9%		0.7%
07-'30		-0.2%		0.0%		0.3%		0.3%		0.2%		-0.2%		0.0%		1.3%		1.2%		1.0%

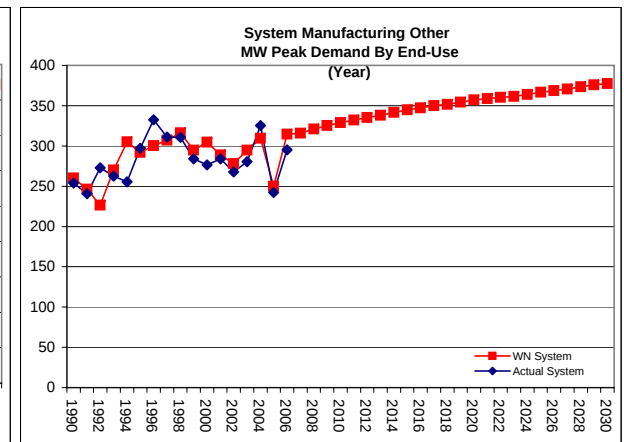
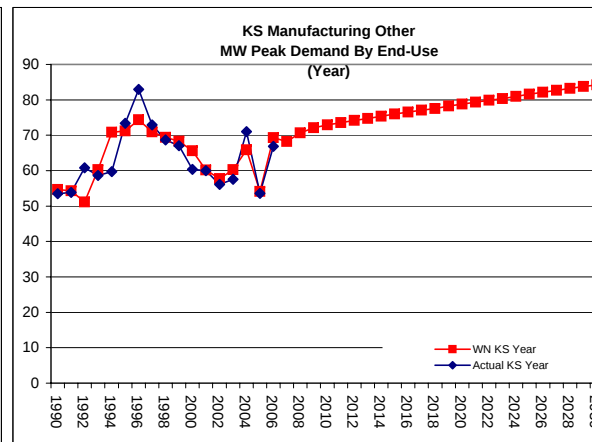
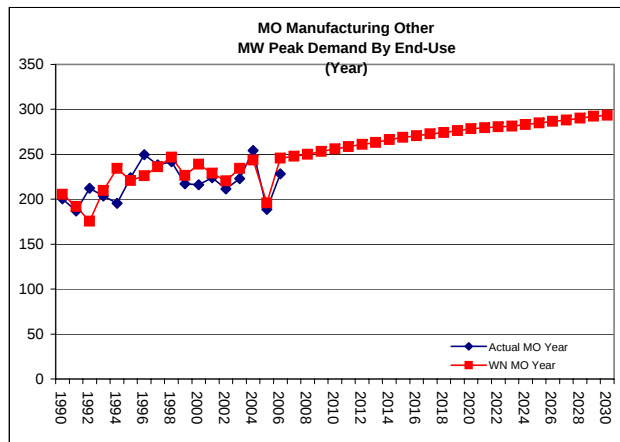
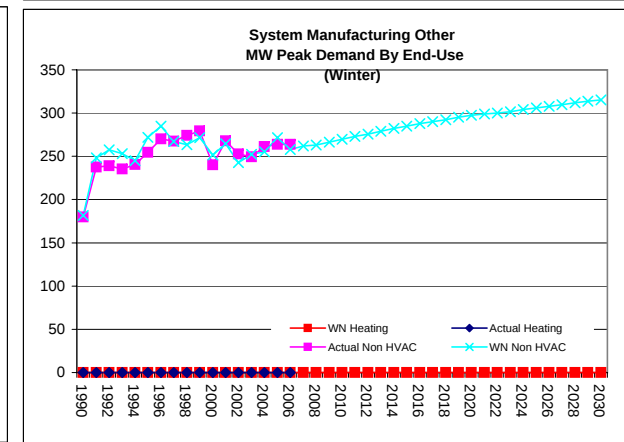
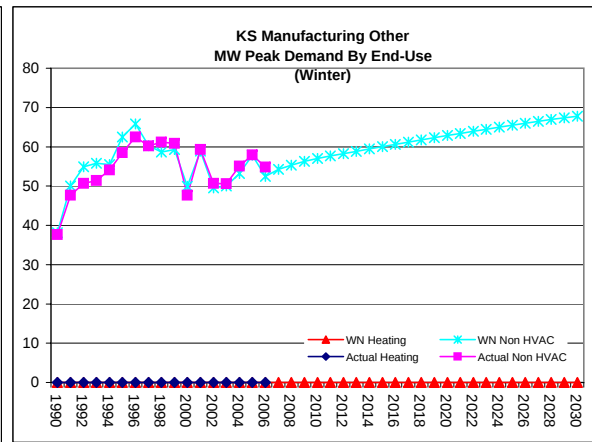
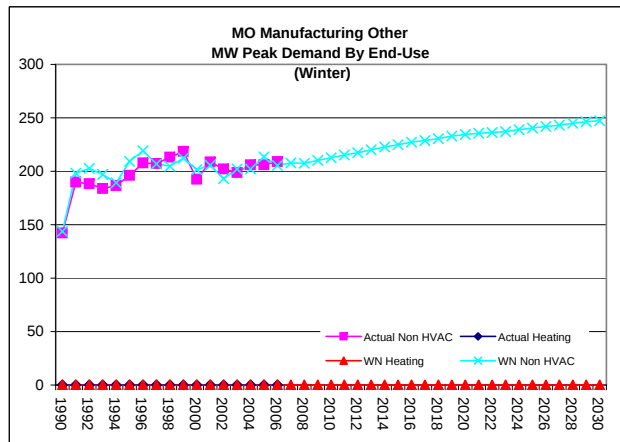
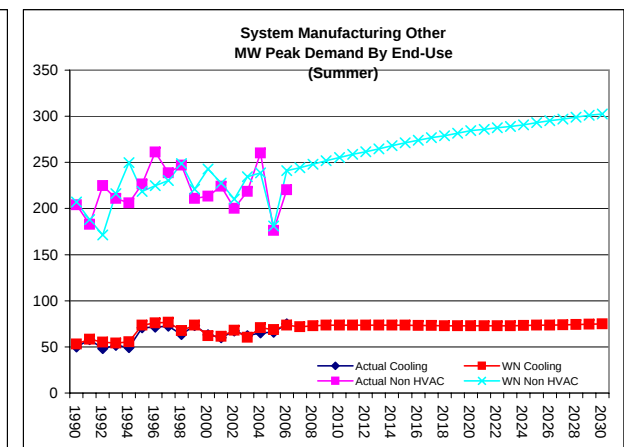
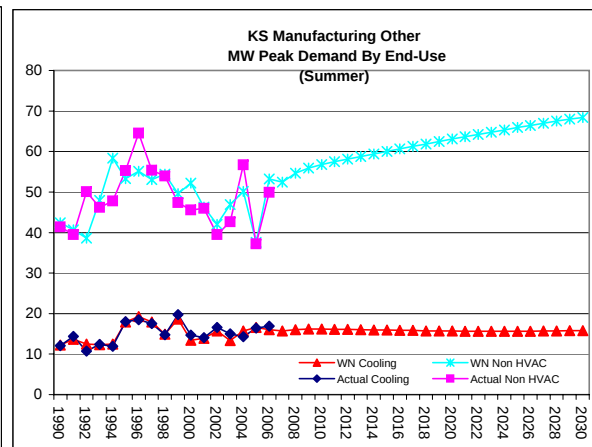
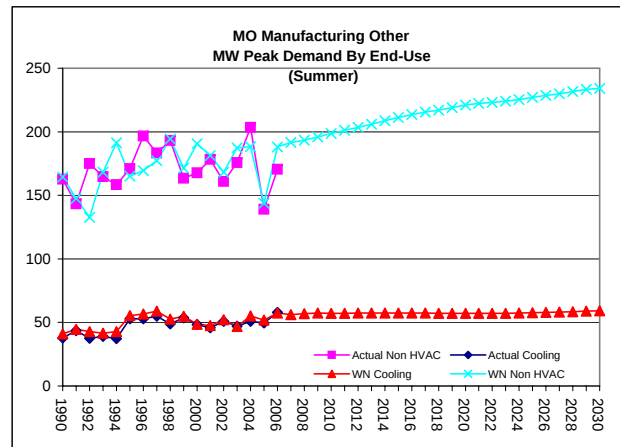
Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	20.4	21.3	-	-	58.0	59.5	37.6	38.4	78.4	80.8
1991	26.1	25.7	-	-	52.9	54.3	58.7	61.8	79.0	80.0
1992	18.6	21.5	-	-	45.8	35.2	58.2	62.5	64.4	56.7
1993	20.6	21.1	-	-	56.7	58.5	73.5	80.1	77.3	79.6
1994	22.1	24.2	-	-	53.1	64.4	60.4	61.1	75.2	88.6
1995	34.6	35.3	-	-	69.4	66.9	70.4	75.6	103.9	102.2
1996	33.4	35.2	-	-	74.7	64.1	70.9	75.2	108.1	99.3
1997	32.9	34.3	-	-	69.0	66.3	74.0	73.3	101.9	100.6
1998	24.6	25.6	-	-	66.4	67.0	70.2	67.6	91.0	92.6
1999	33.2	32.5	-	-	58.5	61.4	73.5	70.8	91.7	93.9
2000	24.7	23.5	-	-	60.6	69.1	62.7	65.7	85.3	92.6
2001	22.7	23.0	-	-	67.7	67.9	77.6	75.9	90.4	90.9
2002	28.9	28.4	-	-	57.7	61.3	69.1	66.8	86.5	89.7
2003	24.2	22.5	-	-	60.7	66.8	70.2	68.6	84.9	89.3
2004	25.6	28.4	-	-	77.2	68.0	69.5	67.3	102.8	96.4
2005	25.3	25.7	-	-	40.1	41.4	72.8	74.6	65.4	67.2
2006	30.0	28.6	-	-	65.4	72.0	74.9	72.6	95.4	100.7
2007		27.7		-		72.0		71.7		99.8
2008		28.2		-		73.6		72.2		101.8
2009		28.4		-		74.8		73.1		103.2
2010		28.3		-		75.7		73.9		103.9
2011		28.1		-		76.4		74.6		104.6
2012		28.0		-		77.2		75.3		105.2
2013		27.9		-		77.9		76.0		105.8
2014		27.8		-		78.7		76.7		106.5
2015		27.6		-		79.5		77.4		107.1
2016		27.5		-		80.2		78.1		107.7
2017		27.3		-		80.9		78.8		108.3
2018		27.1		-		81.6		79.4		108.7
2019		27.0		-		82.3		80.1		109.3
2020		26.9		-		83.0		80.7		110.0
2021		26.9		-		83.6		81.2		110.4
2022		26.8		-		84.0		81.6		110.8
2023		26.7		-		84.5		82.1		111.2
2024		26.7		-		85.1		82.6		111.7
2025		26.7		-		85.6		83.1		112.3
2026		26.6		-		86.1		83.5		112.7
2027		26.6		-		86.6		83.9		113.2
2028		26.6		-		87.0		84.4		113.6
2029		26.6		-		87.5		84.7		114.1
2030		26.5		-		87.7		84.9		114.2
	2.4%	1.9%	#DIV/0!	#DIV/0!	0.7%	1.2%	4.4%	4.1%	1.2%	1.4%
		0.6%		#DIV/0!		1.7%		1.0%		1.4%
		-0.4%		#DIV/0!		1.0%		0.9%		0.6%
		-0.5%		#DIV/0!		0.9%		0.8%		0.5%
		-0.2%		#DIV/0!		0.6%		0.6%		0.4%
		-0.1%		#DIV/0!		0.5%		0.4%		0.3%
		-0.2%		#DIV/0!		0.9%		0.7%		0.6%



Plot I-27 Missouri & Kansas Manufacturing MW Peak Demand By End-Use

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	37.8	40.9	-	-	162.5	164.5	142.2	143.7	200.4	205.4	12.1	12.2	-	-	41.4	42.4	37.6	38.1	53.5	54.7
1991	43.6	44.5	-	-	143.3	147.4	189.9	198.2	186.9	192.0	14.4	13.6	-	-	39.5	40.7	47.7	50.1	53.9	54.3
1992	37.4	42.7	-	-	174.9	132.7	188.2	202.7	212.3	175.4	10.7	12.5	-	-	50.0	38.6	50.6	54.9	60.8	51.1
1993	39.1	41.6	-	-	164.6	168.2	183.8	197.1	203.7	209.8	12.4	12.4	-	-	46.2	47.9	51.4	55.8	58.7	60.3
1994	37.4	42.9	-	-	158.3	191.3	186.4	189.3	195.6	234.2	11.9	12.5	-	-	47.8	58.4	54.1	55.5	59.8	70.9
1995	52.9	55.5	-	-	171.0	165.2	196.0	209.4	223.9	220.7	18.0	17.9	-	-	55.3	53.3	58.5	62.5	73.4	71.2
1996	52.9	56.6	-	-	196.7	169.6	207.7	219.2	249.6	226.1	18.5	19.3	-	-	64.5	55.1	62.5	65.8	83.0	74.4
1997	55.0	58.9	-	-	183.3	177.3	207.3	206.9	238.3	236.2	17.6	17.9	-	-	55.3	53.1	60.2	60.3	72.9	71.0
1998	48.9	52.6	-	-	193.1	194.3	213.0	204.8	241.9	246.8	14.7	15.0	-	-	53.9	54.4	61.2	58.7	68.7	69.4
1999	53.6	54.9	-	-	163.4	171.5	218.5	212.2	217.1	226.3	19.7	18.7	-	-	47.4	49.6	60.8	59.3	67.1	68.3
2000	48.4	48.5	-	-	167.7	190.5	192.5	201.5	216.1	239.0	14.7	13.4	-	-	45.6	52.2	47.7	49.9	60.3	65.6
2001	45.8	47.6	-	-	178.2	181.2	208.7	205.8	224.0	228.8	14.1	13.9	-	-	46.0	46.3	59.3	58.9	60.0	60.2
2002	50.7	52.2	-	-	160.8	168.3	202.1	193.2	211.6	220.5	16.6	15.8	-	-	39.5	42.0	50.7	49.5	56.1	57.8
2003	47.1	46.9	-	-	175.9	187.4	198.7	202.2	223.0	234.3	15.0	13.4	-	-	42.6	46.9	50.6	50.0	57.6	60.3
2004	50.8	55.2	-	-	203.3	188.4	206.1	202.0	254.2	243.5	14.3	15.7	-	-	56.7	50.2	55.0	53.2	71.0	65.9
2005	49.6	52.0	-	-	139.1	143.7	206.0	213.5	188.7	195.7	16.4	16.6	-	-	37.2	37.6	57.9	57.9	53.6	54.1
2006	58.0	57.5	-	-	170.4	188.0	209.0	205.3	228.4	245.5	16.9	16.0	-	-	49.9	53.3	54.8	52.4	66.9	69.3
2007		56.1	-	-		191.6		207.6		247.7		15.7	-			52.5		54.3		68.2
2008		56.8	-	-		193.3		207.6		250.1		16.1	-			54.6		55.3		70.7
2009		57.3	-	-		195.9		210.2		253.2		16.2	-			55.9		56.3		72.1
2010		57.3	-	-		198.6		212.7		255.9		16.2	-			56.8		57.0		72.9
2011		57.3	-	-		201.2		215.2		258.4		16.1	-			57.5		57.7		73.5
2012		57.4	-	-		203.5		217.3		260.9		16.1	-			58.1		58.3		74.2
2013		57.4	-	-		205.9		220.0		263.3		16.0	-			58.7		58.8		74.7
2014		57.5	-	-		208.7		222.7		266.2		16.0	-			59.4		59.5		75.4
2015		57.5	-	-		211.2		224.8		268.7		16.0	-			60.0		60.0		76.0
2016		57.4	-	-		213.4		227.1		270.8		15.9	-			60.7		60.6		76.5
2017		57.3	-	-		215.4		228.8		272.7		15.8	-			61.3		61.2		77.1
2018		57.1	-	-		217.0		230.5		274.1		15.7	-			61.8		61.7		77.6
2019		57.1	-	-		219.1		232.8		276.2		15.7	-			62.5		62.3		78.2
2020		57.1	-	-		221.2		234.5		278.3		15.7	-			63.1		62.9		78.8
2021		57.2	-	-		222.3		235.6		279.5		15.7	-			63.7		63.4		79.3
2022		57.2	-	-		223.2		236.2		280.4		15.6	-			64.2		63.9		79.9
2023		57.2	-	-		224.1		237.2		281.3		15.6	-			64.8		64.4		80.4
2024		57.4	-	-		225.4		239.0		282.9		15.6	-			65.3		65.0		81.0
2025		57.7	-	-		227.2		240.5		284.9		15.7	-			65.9		65.5		81.6
2026		57.9	-	-		228.6		241.8		286.6		15.7	-			66.5		66.0		82.1
2027		58.2	-	-		230.0		243.2		288.1		15.7	-			67.0		66.5		82.7
2028		58.5	-	-		231.6		244.9		290.1		15.7	-			67.5		66.9		83.2
2029		58.9	-	-		233.3		246.4		292.2		15.8	-			68.0		67.4		83.8
2030		59.1	-	-		234.2		247.3		293.3		15.8	-			68.4		67.8		84.2
90-'06	2.7%	2.2%	#DIV/0!	#DIV/0!	0.3%	0.8%	2.4%	2.3%	0.8%	1.1%	2.1%	1.7%	#DIV/0!	#DIV/0!	1.2%	1.4%	2.4%	2.0%	1.4%	1.5%
07-'10		0.7%		#DIV/0!		1.2%		0.8%		1.1%		0.9%		#DIV/0!		2.7%		1.7%		2.2%
10-'15		0.1%		#DIV/0!		1.2%		1.1%		1.0%		-0.2%		#DIV/0!		1.1%		1.0%		0.8%
15-'20		-0.1%		#DIV/0!		0.9%		0.8%		0.7%		-0.3%		#DIV/0!		1.0%		0.9%		0.7%
20-'25		0.2%		#DIV/0!		0.5%		0.5%		0.5%		0.0%		#DIV/0!		0.9%		0.8%		0.7%
25-'30		0.5%		#DIV/0!		0.6%		0.6%		0.6%		0.2%		#DIV/0!		0.7%		0.7%		0.6%
07-'30		0.2%		#DIV/0!		0.9%		0.8%		0.7%		0.0%		#DIV/0!		1.2%		1.0%		0.9%

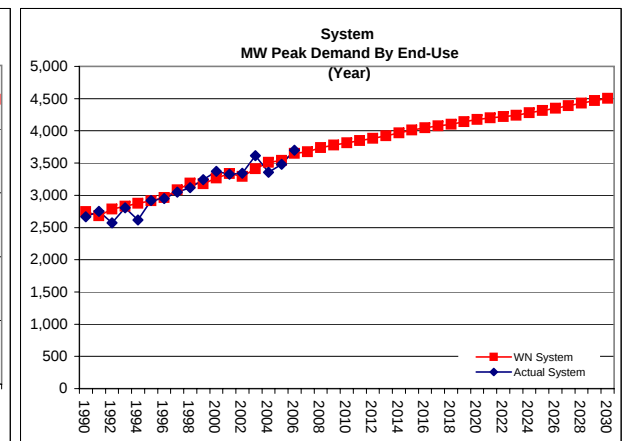
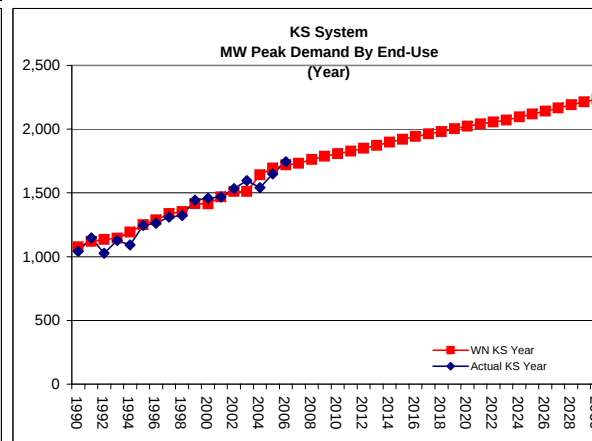
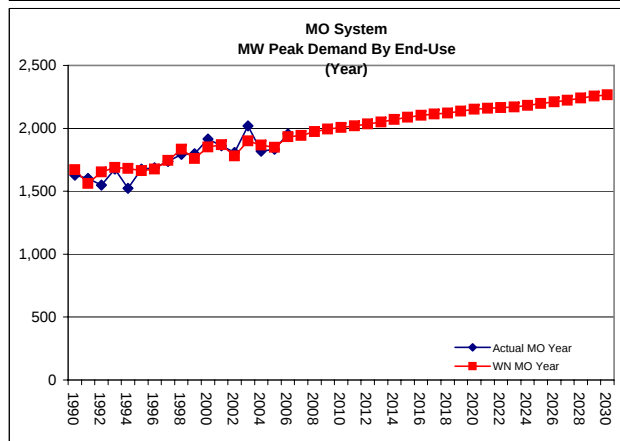
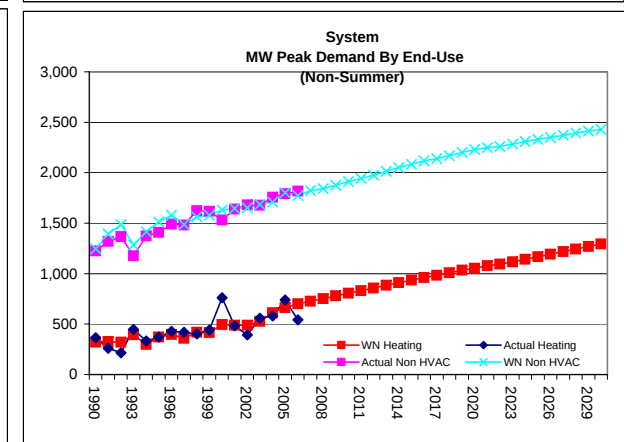
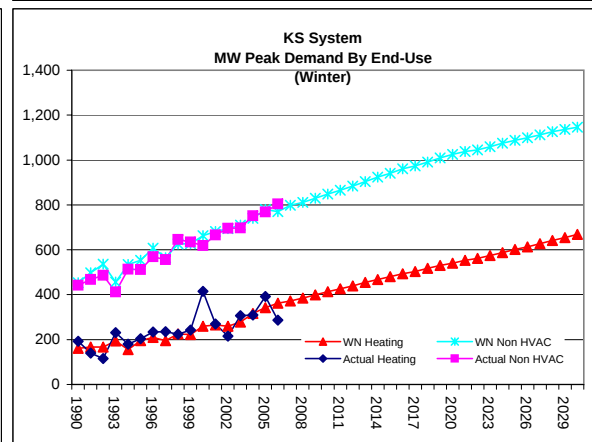
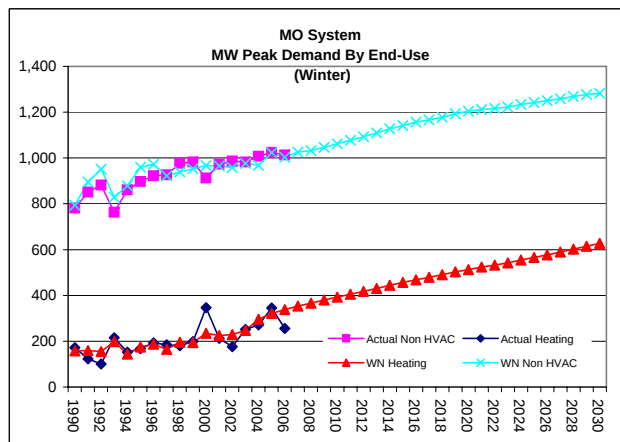
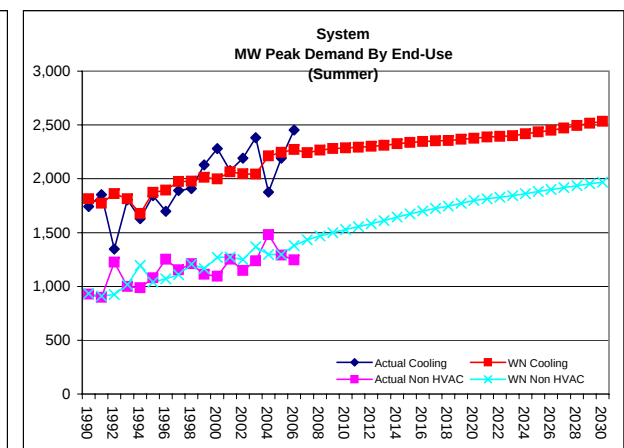
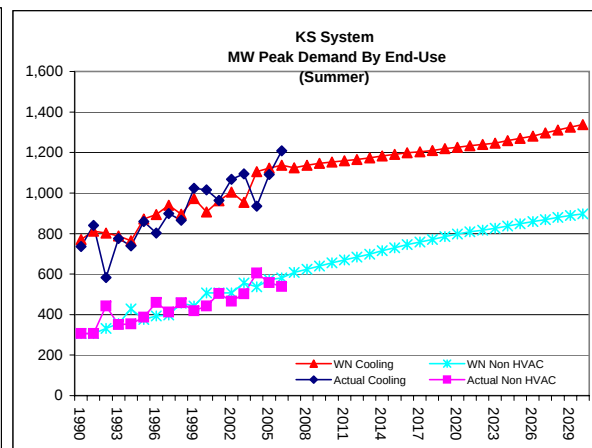
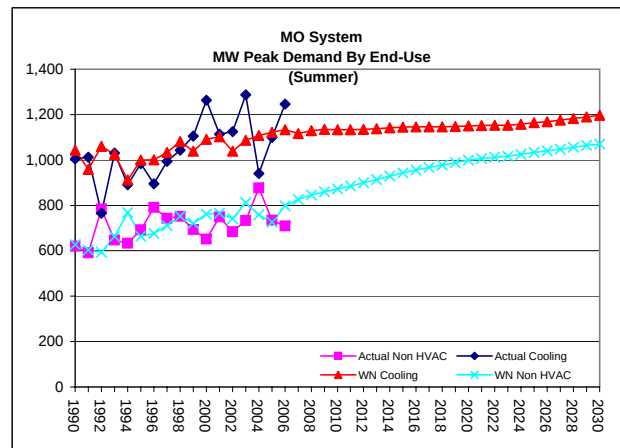
Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	49.9	53.2	-	-	204.0	206.9	179.8	181.8	253.8	260.1
1991	58.0	58.2	-	-	182.8	188.1	237.6	248.2	240.8	246.3
1992	48.2	55.2	-	-	224.9	171.3	238.9	257.6	273.1	226.5
1993	51.5	54.0	-	-	210.8	216.1	235.2	252.9	262.4	270.1
1994	49.3	55.4	-	-	206.1	249.7	240.5	244.8	255.4	305.1
1995	70.9	73.4	-	-	226.3	218.5	254.5	271.8	297.2	291.9
1996	71.3	75.8	-	-	261.2	224.7	270.2	285.0	332.6	300.5
1997	72.5	76.8	-	-	238.6	230.3	267.6	267.2	311.2	307.1
1998	63.6	67.5	-	-	247.0	248.7	274.2	263.5	310.6	316.2
1999	73.4	73.5	-	-	210.8	221.1	279.3	271.5	284.1	294.6
2000	63.1	61.9	-	-	213.3	242.7	240.1	251.5	276.4	304.6
2001	59.8	61.5	-	-	224.2	227.5	268.0	264.7	284.1	289.0
2002	67.3	67.9	-	-	200.3	210.3	252.8	242.7	267.6	278.2
2003	62.1	60.2	-	-	218.5	234.4	249.3	252.3	280.5	294.6
2004	65.1	70.9	-	-	260.0	238.5	261.2	255.3	325.2	309.4
2005	66.0	68.5	-	-	176.3	181.2	263.9	271.4	242.2	249.8
2006	74.9	73.5	-	-	220.3	241.3	263.8	257.8	295.3	314.8
2007		71.8		-		244.1		261.9		315.9
2008		72.9		-		247.9		262.9		320.8
2009		73.6		-		251.8		266.5		325.4
2010		73.4		-		255.4		269.7		328.8
2011		73.4		-		258.6		272.9		332.0
2012		73.5		-		261.6		275.6		335.1
2013		73.4		-		264.6		278.8		338.0
2014		73.4		-		268.1		282.2		341.5
2015		73.4		-		271.2		284.9		344.6
2016		73.3		-		274.0		287.8		347.3
2017		73.1		-		276.7		290.0		349.9
2018		72.8		-		278.9		292.2		351.7
2019		72.8		-		281.6		295.1		354.4
2020		72.8		-		284.3		297.4		357.1
2021		72.9		-		286.0		299.0		358.8
2022		72.9		-		287.4		300.2		360.3
2023		72.8		-		288.8		301.6		361.7
2024		73.1		-		290.8		304.0		363.8
2025		73.4		-		293.1		306.0		366.5
2026		73.6		-		295.1		307.8		368.7
2027		73.9		-		296.9		309.7		370.8
2028		74.3		-		299.1		311.9		373.3
2029		74.7		-		301.3		313.8		376.0
2030		74.9		-		302.6		315.1		377.5
	2.6%	2.0%	#DIV/0!	#DIV/0!	0.5%	1.0%	2.4%	2.2%	0.9%	1.2%
		0.8%		#DIV/0!		1.5%		1.0%		1.3%
		0.0%		#DIV/0!		1.2%		1.1%		0.9%
		-0.2%		#DIV/0!		0.9%		0.9%		0.7%
		0.2%		#DIV/0!		0.6%		0.6%		0.5%
		0.4%		#DIV/0!		0.6%		0.6%		0.6%
		0.2%		#DIV/0!		0.9%		0.8%		0.8%



Plot I-28 Missouri & Kansas MW Peak Demand By End-Use
For classes that have end-use sales

	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
Year	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	1,005.6	1,042.7	171.9	157.6	620.9	627.6	780.9	794.0	1,626.4	1,670.3	735.4	770.3	191.9	161.6	306.9	305.7	442.6	453.2	1,042.3	1,076.0
1991	1,012.2	959.1	122.3	159.0	590.4	603.3	851.3	895.8	1,602.6	1,562.4	840.2	812.1	139.1	167.0	306.0	306.6	467.8	497.6	1,146.3	1,118.7
1992	765.1	1,059.8	100.2	155.0	783.3	593.1	881.7	951.8	1,548.4	1,652.9	582.5	802.1	115.5	166.4	442.9	331.9	485.8	535.6	1,025.4	1,134.0
1993	1,030.2	1,024.8	215.5	198.2	647.0	663.0	763.5	829.2	1,677.2	1,687.7	776.0	788.4	230.8	194.6	350.7	354.9	412.0	455.6	1,126.7	1,143.3
1994	890.4	912.2	152.8	143.6	632.7	768.8	861.0	879.3	1,523.1	1,681.0	739.3	764.9	179.5	156.0	353.8	427.3	512.8	535.0	1,093.1	1,192.2
1995	983.9	999.9	167.0	174.1	691.5	663.7	896.9	960.1	1,675.5	1,663.6	858.8	872.3	204.0	195.8	386.6	376.5	511.4	553.7	1,245.4	1,248.9
1996	894.9	1,000.7	193.3	187.8	791.6	676.0	922.0	972.8	1,686.4	1,676.7	802.4	893.4	234.3	209.8	460.2	393.8	569.5	607.3	1,262.5	1,287.2
1997	993.3	1,033.1	184.3	164.2	742.8	711.2	925.7	922.6	1,736.1	1,744.3	898.8	940.1	235.0	195.1	411.6	398.0	555.5	564.4	1,310.4	1,338.1
1998	1,043.2	1,081.4	180.5	195.4	751.0	752.4	977.2	938.9	1,794.1	1,833.8	865.6	896.1	223.7	224.6	458.4	456.1	646.4	626.0	1,324.0	1,352.1
1999	1,106.0	1,039.1	198.4	194.0	693.0	721.7	982.5	952.9	1,799.0	1,760.8	1,023.8	972.6	242.0	222.3	418.5	442.7	634.6	626.9	1,442.2	1,415.3
2000	1,263.8	1,091.4	346.3	234.2	651.3	761.2	912.5	966.4	1,915.1	1,852.6	1,015.7	906.5	414.6	259.3	442.4	507.1	618.2	663.2	1,458.0	1,413.5
2001	1,113.3	1,102.4	212.5	225.2	747.9	765.9	972.7	965.4	1,861.2	1,868.3	962.8	961.7	270.0	264.5	504.6	507.4	666.5	681.7	1,467.4	1,469.1
2002	1,124.6	1,039.5	176.6	229.0	683.2	741.9	986.7	958.8	1,807.8	1,781.5	1,067.6	1,005.2	215.4	258.8	465.6	506.3	695.2	695.0	1,533.2	1,511.4
2003	1,286.5	1,087.3	252.1	247.8	732.6	812.1	982.0	976.3	2,019.1	1,899.4	1,093.9	954.7	306.7	277.7	503.0	555.4	697.1	710.3	1,596.9	1,510.1
2004	940.9	1,108.1	271.7	296.8	876.4	758.9	1,006.7	968.1	1,817.3	1,867.0	935.4	1,105.2	309.6	316.4	605.3	536.8	751.4	740.4	1,540.6	1,641.9
2005	1,099.5	1,122.8	344.7	321.8	734.1	725.6	1,024.4	1,023.4	1,833.6	1,848.5	1,091.7	1,122.6	392.8	342.3	557.4	571.2	768.8	779.1	1,649.2	1,693.9
2006	1,246.6	1,134.0	255.2	338.3	708.8	798.3	1,013.2	1,002.9	1,955.4	1,932.3	1,207.8	1,137.4	286.4	361.6	537.9	581.9	803.4	770.4	1,745.7	1,719.4
2007		1,116.3		353.9		825.8		1,025.1		1,942.1		1,124.9		372.5		607.7		798.2		1,732.6
2008		1,129.3		365.4		845.5		1,031.9		1,974.8		1,137.5		384.7		624.4		810.8		1,762.0
2009		1,134.4		379.5		859.4		1,047.1		1,993.8		1,147.0		399.7		639.6		829.4		1,786.6
2010		1,133.6		392.4		873.2		1,062.4		2,006.8		1,152.9		413.6		655.0		848.3		1,807.9
2011		1,133.3		404.8		885.8		1,076.9		2,019.1		1,158.9		426.7		669.3		866.1		1,828.2
2012		1,135.3		417.1		899.1		1,092.2		2,034.5		1,165.8		439.4		683.9		884.2		1,849.7
2013		1,137.7		430.6		913.2		1,109.3		2,050.8		1,173.9		454.2		698.9		904.3		1,872.8
2014		1,142.1		444.3		928.9		1,127.3		2,070.9		1,183.5		467.4		715.0		923.6		1,898.5
2015		1,145.5		456.4		943.1		1,141.7		2,088.6		1,191.0		480.0		729.9		941.2		1,920.9
2016		1,146.3		468.7		956.0		1,156.7		2,102.3		1,198.6		493.6		744.9		960.7		1,943.5
2017		1,146.7		479.4		966.8		1,167.2		2,113.5		1,204.2		503.8		757.8		974.1		1,962.0
2018		1,145.7		490.4		976.4		1,178.2		2,122.1		1,209.8		517.4		770.3		991.4		1,980.1
2019		1,148.2		502.6		987.8		1,192.7		2,136.0		1,219.3		529.7		784.4		1,008.7		2,003.7
2020		1,150.5		513.3		999.8		1,204.7		2,150.3		1,226.1		540.9		798.2		1,024.8		2,024.3
2021		1,152.4		523.8		1,006.3		1,211.9		2,158.8		1,233.8		553.0		808.0		1,037.2		2,041.8
2022		1,153.2		532.5		1,011.8		1,216.4		2,165.0		1,239.3		561.4		816.8		1,045.6		2,056.0
2023		1,153.3		542.4		1,016.8		1,222.7		2,170.1		1,246.0		574.8		825.8		1,059.4		2,071.9
2024		1,157.8		554.5		1,024.7		1,233.7		2,182.5		1,258.4		587.8		837.7		1,074.4		2,096.1
2025		1,164.3		566.2		1,033.3		1,242.3		2,197.6		1,270.4		601.1		848.6		1,087.2		2,119.0
2026		1,169.5		577.6		1,041.0		1,250.4		2,210.4		1,281.6		613.6		859.0		1,099.3		2,140.5
2027		1,175.6		589.5		1,048.2		1,258.7		2,223.8		1,296.0		627.6		869.1		1,112.3		2,165.1
2028		1,182.9		602.3		1,056.7		1,268.9		2,239.6		1,311.0		641.8		880.3		1,126.2		2,191.2
2029		1,190.6		614.6		1,064.4		1,276.7		2,255.0		1,324.8		654.8		889.6		1,136.5		2,214.5
2030		1,196.5		626.8		1,070.1		1,282.8		2,266.6		1,337.2		668.6		897.9		1,146.9		2,235.1
90-'06	1.4%	0.5%	2.5%	4.9%	0.8%	1.5%	1.6%	1.5%	1.2%	0.9%	3.1%	2.5%	2.5%	5.2%	3.6%	4.1%	3.8%	3.4%	3.3%	3.0%
07-'10		0.5%		3.5%		1.9%		1.2%		1.1%		0.8%		3.5%		2.5%		2.0%		1.4%
10-'15		0.2%		3.1%		1.6%		1.5%		0.8%		0.7%		3.0%		2.2%		2.1%		1.2%
15-'20		0.1%		2.4%		1.2%		1.1%		0.6%		0.6%		2.4%		1.8%		1.7%		1.1%
20-'25		0.2%		2.0%		0.7%		0.6%		0.4%		0.7%		2.1%		1.2%		1.2%		0.9%
25-'30		0.5%		2.1%		0.7%		0.6%		0.6%		1.0%		2.2%		1.1%		1.1%		1.1%
07-'30		0.3%		2.5%		1.1%		1.0%		0.7%		0.8%		2.6%		1.7%		1.6%		1.1%

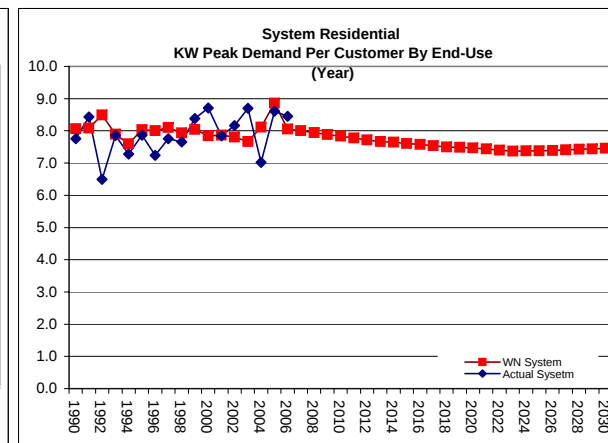
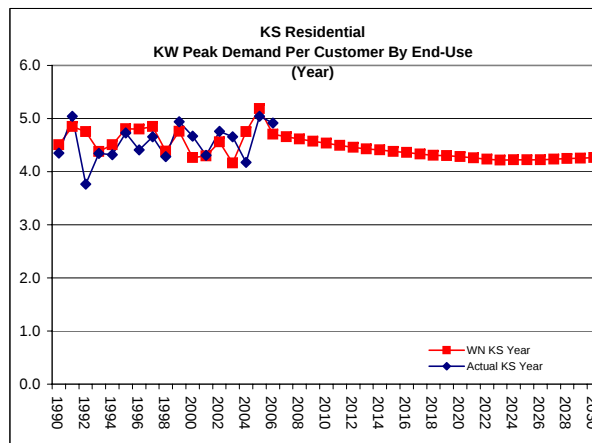
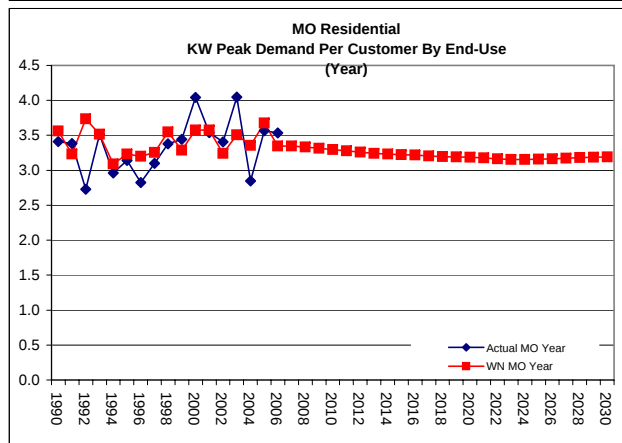
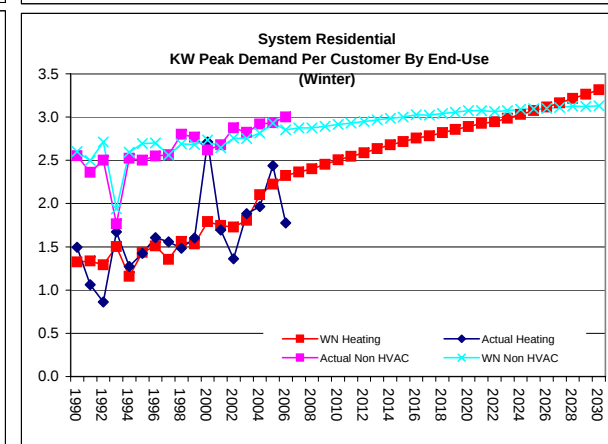
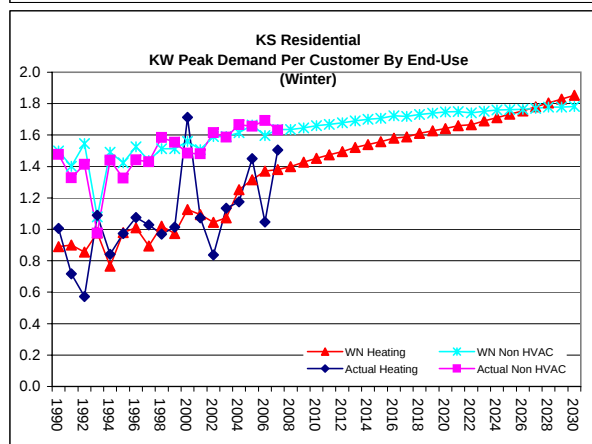
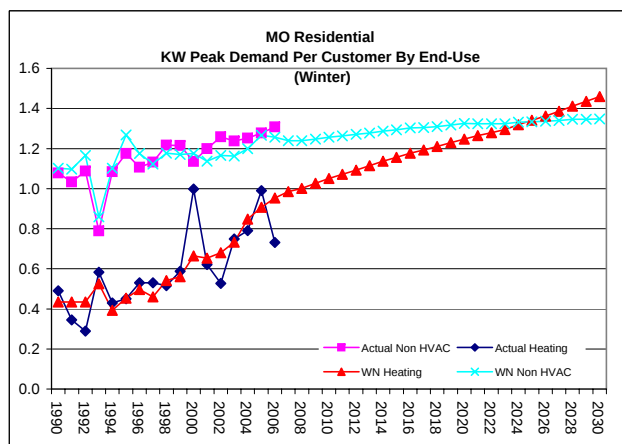
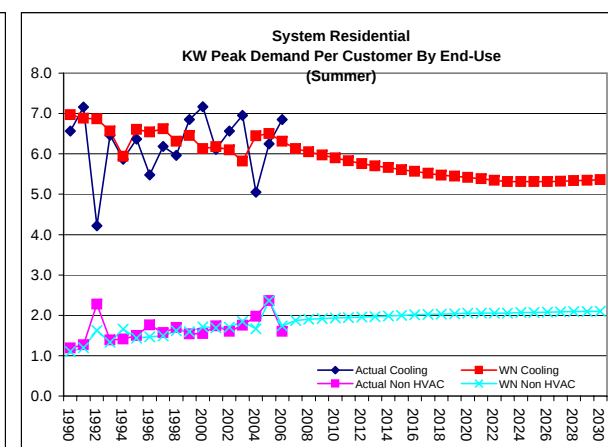
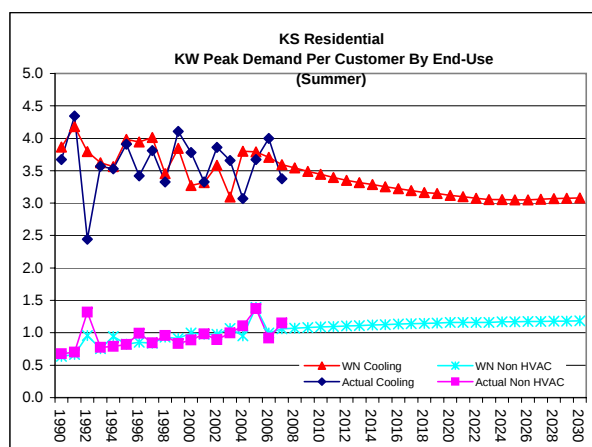
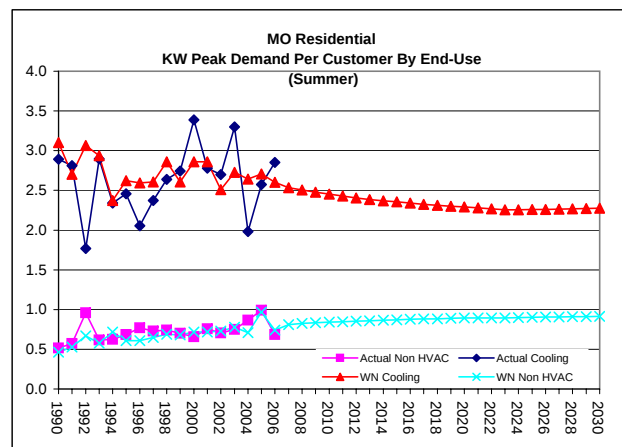
Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	1,741.0	1,813.0	363.9	319.2	927.8	933.3	1,223.5	1,247.3	2,668.8	2,746.3
1991	1,852.4	1,771.3	261.3	326.0	896.5	909.8	1,319.0	1,393.4	2,748.9	2,681.1
1992	1,347.6	1,861.8	215.7	321.4	1,226.2	925.0	1,367.6	1,487.4	2,573.8	2,786.8
1993	1,806.2	1,813.2	446.3	392.8	997.7	1,017.9	1,175.5	1,284.7	2,803.9	2,831.1
1994	1,629.6	1,677.2	332.3	299.6	986.5	1,196.1	1,373.9	1,414.3	2,616.1	2,873.3
1995	1,842.8	1,872.2	370.9	370.0	1,078.1	1,040.2	1,408.3	1,513.8	2,920.9	2,912.4
1996	1,697.2	1,894.1	427.6	397.6	1,251.8	1,069.9	1,491.5	1,580.1	2,949.0	2,964.0
1997	1,892.2	1,973.2	419.3	359.3	1,154.4	1,109.2	1,481.1	1,487.0	3,046.6	3,082.5
1998	1,908.7	1,977.4	404.2	420.0	1,209.4	1,208.5	1,623.6	1,564.9	3,118.1	3,185.9
1999	2,129.8	2,011.7	440.4	416.3	1,111.4	1,164.4	1,617.1	1,579.8	3,241.2	3,176.2
2000	2,279.5	1,997.9	760.8	493.5	1,093.7	1,268.2	1,530.7	1,629.6	3,373.2	3,266.1
2001	2,076.0	2,064.1	482.5	489.8	1,252.6	1,273.3	1,639.1	1,647.1	3,328.6	3,337.4
2002	2,192.2	2,044.7	392.0	487.8	1,148.8	1,248.2	1,681.9	1,653.7	3,341.0	3,292.9
2003	2,380.4	2,042.0	558.8	525.5	1,235.6	1,367.5	1,679.1	1,686.6	3,616.0	3,409.5
2004	1,876.3	2,213.2	581.3	613.2	1,481.7	1,295.6	1,758.2	1,708.4	3,358.0	3,508.9
2005	2,191.2	2,245.5	737.4	664.0	1,291.5	1,296.9	1,793.2	1,802.6	3,482.7	3,542.4
2006	2,454.4	2,271.4	541.6	699.9	1,246.7	1,380.3	1,816.6	1,773.3	3,701.1	3,651.7
2007		2,241.2		726.5		1,433.5		1,823.3		3,674.7
2008		2,266.8		750.1		1,469.9		1,842.7		3,736.8
2009		2,281.5		779.2		1,499.0		1,876.5		3,780.4
2010		2,286.5		806.0		1,528.2		1,910.7		3,814.7
2011		2,292.2		831.5		1,555.1		1,943.0		3,847.3
2012		2,301.1		856.6		1,583.1		1,976.4		3,884.2
2013		2,311.6		884.7		1,612.0		2,013.7		3,923.6
2014		2,325.6		911.7		1,643.9		2,051.0		3,969.5
2015		2,336.4		936.4		1,673.0		2,082.9		4,009.5
2016		2,344.9		962.3		1,700.9		2,117.4		4,045.8
2017		2,350.9		983.2		1,724.6		2,141.3		4,075.5
2018		2,355.5		1,007.7		1,746.7		2,169.6		4,102.2
2019		2,367.5		1,032.3		1,772.2		2,201.4		4,139.7
2020		2,376.6		1,054.2		1,798.1		2,229.5		4,174.6
2021		2,386.3		1,076.7		1,814.4		2,249.1		4,200.6
2022		2,392.5		1,093.9		1,828.5		2,262.0		4,221.0
2023		2,399.3		1,117.2		1,842.6		2,282.1		4,241.9
2024		2,416.2		1,142.3		1,862.5		2,308.1		4,278.7
2025		2,434.8		1,167.3		1,881.8		2,329.5		4,316.6
2026		2,451.0		1,191.2		1,899.9		2,349.7		4,350.9
2027		2,471.6		1,217.0		1,917.3		2,371.0		4,388.9
2028		2,493.9		1,244.1		1,937.0		2,395.0		4,430.9
2029		2,515.4		1,269.4		1,954.1		2,413.2		4,469.5
2030		2,533.7		1,295.4		1,968.0		2,429.7		4,501.6
	2.2%	1.4%	2.5%	5.0%	1.9%	2.5%	2.5%	2.2%	2.1%	1.8%
		0.7%		3.5%		2.2%		1.6%		1.3%
		0.4%		3.0%		1.8%		1.7%		1.0%
		0.3%		2.4%		1.5%		1.4%		0.8%
		0.5%		2.1%		0.9%		0.9%		0.7%
		0.8%		2.1%		0.9%		0.8%		0.8%
		0.5%		2.5%		1.4%		1.3%		0.9%



Plot I-29 Missouri & Kansas Residential KW Peak Demand Per Customer By End-Use

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	2.9	3.1	0.5	0.4	0.5	0.5	1.1	1.1	3.4	3.6	3.7	3.9	1.0	0.9	0.7	0.6	1.5	1.5	4.3	4.5
1991	2.8	2.7	0.3	0.4	0.6	0.5	1.0	1.1	3.4	3.2	4.3	4.2	0.7	0.9	0.7	0.7	1.3	1.4	5.0	4.8
1992	1.8	3.1	0.3	0.4	1.0	0.7	1.1	1.2	2.7	3.7	2.4	3.8	0.6	0.9	1.3	1.0	1.4	1.5	3.8	4.8
1993	2.9	2.9	0.6	0.5	0.6	0.6	0.8	0.9	3.5	3.5	3.6	3.6	1.1	1.0	0.8	0.8	1.0	1.1	4.3	4.4
1994	2.3	2.4	0.4	0.4	0.6	0.7	1.1	1.1	3.0	3.1	3.5	3.6	0.8	0.8	0.8	0.9	1.4	1.5	4.3	4.5
1995	2.5	2.6	0.5	0.5	0.7	0.6	1.2	1.3	3.1	3.2	3.9	4.0	1.0	1.0	0.8	0.8	1.3	1.4	4.7	4.8
1996	2.1	2.6	0.5	0.5	0.8	0.6	1.1	1.2	2.8	3.2	3.4	3.9	1.1	1.0	1.0	0.9	1.4	1.5	4.4	4.8
1997	2.4	2.6	0.5	0.5	0.7	0.6	1.1	1.1	3.1	3.3	3.8	4.0	1.0	0.9	0.8	0.8	1.4	1.4	4.7	4.9
1998	2.6	2.9	0.5	0.5	0.7	0.7	1.2	1.2	3.4	3.5	3.3	3.5	1.0	1.0	1.0	0.9	1.6	1.5	4.3	4.4
1999	2.7	2.6	0.6	0.6	0.7	0.7	1.2	1.2	3.4	3.3	4.1	3.8	1.0	1.0	0.8	0.9	1.6	1.5	4.9	4.8
2000	3.4	2.9	1.0	0.7	0.7	0.7	1.1	1.2	4.0	3.6	3.8	3.3	1.7	1.1	0.9	1.0	1.5	1.6	4.7	4.3
2001	2.8	2.9	0.6	0.7	0.8	0.7	1.2	1.1	3.5	3.6	3.3	3.3	1.1	1.1	1.0	1.0	1.5	1.5	4.3	4.3
2002	2.7	2.5	0.5	0.7	0.7	0.7	1.3	1.2	3.4	3.2	3.9	3.6	0.8	1.0	0.9	1.0	1.6	1.6	4.8	4.6
2003	3.3	2.7	0.7	0.7	0.8	0.8	1.2	1.2	4.0	3.5	3.7	3.1	1.1	1.1	1.0	1.1	1.6	1.6	4.7	4.2
2004	2.0	2.6	0.8	0.8	0.9	0.7	1.3	1.2	2.8	3.4	3.1	3.8	1.2	1.3	1.1	1.0	1.7	1.6	4.2	4.8
2005	2.6	2.7	1.0	0.9	1.0	1.0	1.3	1.3	3.6	3.7	3.7	3.8	1.4	1.3	1.4	1.4	1.7	1.7	5.0	5.2
2006	2.9	2.6	0.7	1.0	0.7	0.7	1.3	1.3	3.5	3.3	4.0	3.7	1.0	1.4	0.9	1.0	1.7	1.6	4.9	4.7
2007		2.5		1.0		0.8		1.2		3.3	3.4	3.6	1.5	1.4	1.2	1.1	1.6	1.6		4.7
2008		2.5		1.0		0.8		1.2		3.3		3.5		1.4		1.1	1.6	1.6		4.6
2009		2.5		1.0		0.8		1.2		3.3		3.5		1.4		1.1	1.6	1.6		4.6
2010		2.5		1.1		0.8		1.3		3.3		3.4		1.5		1.1	1.7	1.7		4.5
2011		2.4		1.1		0.8		1.3		3.3		3.4		1.5		1.1	1.7	1.7		4.5
2012		2.4		1.1		0.9		1.3		3.3		3.4		1.5		1.1	1.7	1.7		4.5
2013		2.4		1.1		0.9		1.3		3.2		3.3		1.5		1.1	1.7	1.7		4.4
2014		2.4		1.1		0.9		1.3		3.2		3.3		1.5		1.1	1.7	1.7		4.4
2015		2.4		1.2		0.9		1.3		3.2		3.3		1.6		1.1	1.7	1.7		4.4
2016		2.3		1.2		0.9		1.3		3.2		3.2		1.6		1.1	1.7	1.7		4.4
2017		2.3		1.2		0.9		1.3		3.2		3.2		1.6		1.1	1.7	1.7		4.3
2018		2.3		1.2		0.9		1.3		3.2		3.2		1.6		1.1	1.7	1.7		4.3
2019		2.3		1.2		0.9		1.3		3.2		3.1		1.6		1.2	1.7	1.7		4.3
2020		2.3		1.2		0.9		1.3		3.2		3.1		1.6		1.2	1.7	1.7		4.3
2021		2.3		1.3		0.9		1.3		3.2		3.1		1.7		1.2	1.7	1.7		4.3
2022		2.3		1.3		0.9		1.3		3.2		3.1		1.7		1.2	1.7	1.7		4.2
2023		2.3		1.3		0.9		1.3		3.2		3.1		1.7		1.2	1.8	1.8		4.2
2024		2.3		1.3		0.9		1.3		3.2		3.1		1.7		1.2	1.8	1.8		4.2
2025		2.3		1.3		0.9		1.3		3.2		3.1		1.7		1.2	1.8	1.8		4.2
2026		2.3		1.4		0.9		1.3		3.2		3.0		1.8		1.2	1.8	1.8		4.2
2027		2.3		1.4		0.9		1.3		3.2		3.1		1.8		1.2	1.8	1.8		4.2
2028		2.3		1.4		0.9		1.3		3.2		3.1		1.8		1.2	1.8	1.8		4.2
2029		2.3		1.4		0.9		1.3		3.2		3.1		1.8		1.2	1.8	1.8		4.3
2030		2.3		1.5		0.9		1.3		3.2		3.1		1.9		1.2	1.8	1.8		4.3
90-'06	-0.1%	-1.1%	2.5%	5.0%	1.8%	3.0%	1.2%	0.8%	0.2%	-0.4%	0.5%	-0.3%	0.2%	2.7%	1.9%	2.8%	0.9%	0.4%	0.8%	0.3%
07-'10		-1.1%		2.2%		1.3%		0.5%		-0.5%		-1.4%		1.7%		0.9%		0.5%		-0.9%
10-'15		-0.8%		1.9%		0.7%		0.6%		-0.4%		-1.1%		1.4%		0.7%		0.6%		-0.7%
15-'20		-0.5%		1.5%		0.6%		0.5%		-0.2%		-0.8%		1.1%		0.6%		0.5%		-0.5%
20-'25		-0.3%		1.5%		0.1%		0.1%		-0.2%		-0.4%		1.1%		0.2%		0.2%		-0.3%
25-'30		0.2%		1.7%		0.3%		0.2%		0.2%		0.2%		1.4%		0.3%		0.2%		0.2%
07-'30		-0.5%		1.7%		0.5%		0.4%		-0.2%		-0.7%		1.3%		0.5%		0.4%		-0.4%

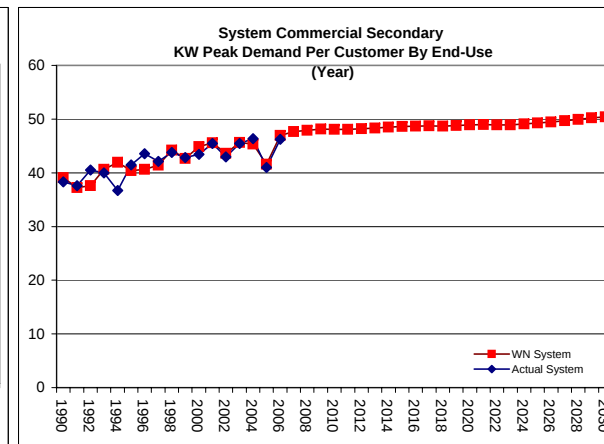
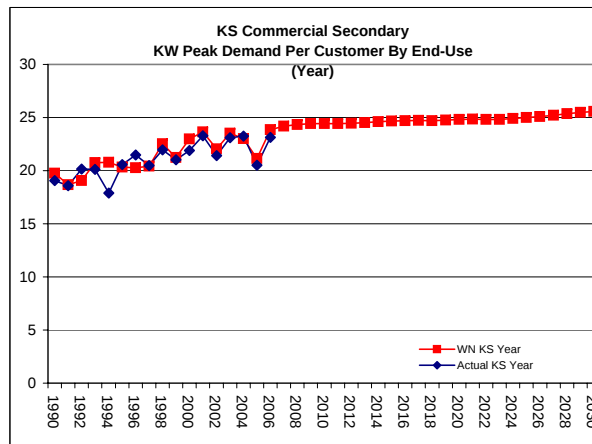
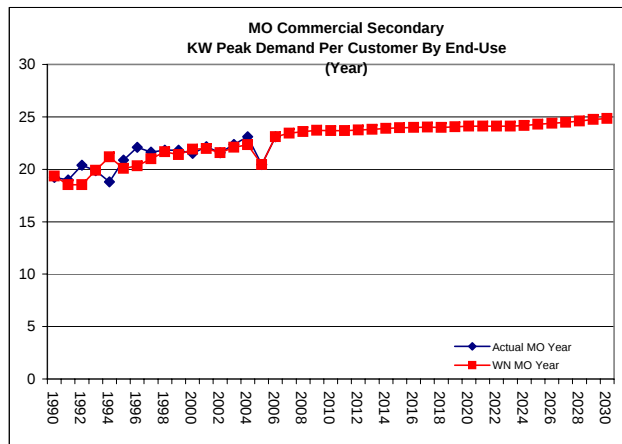
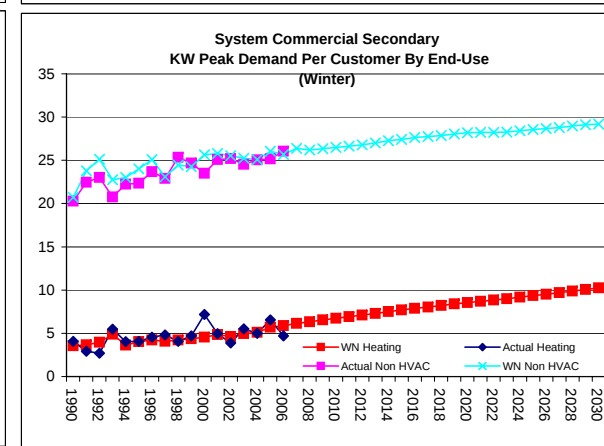
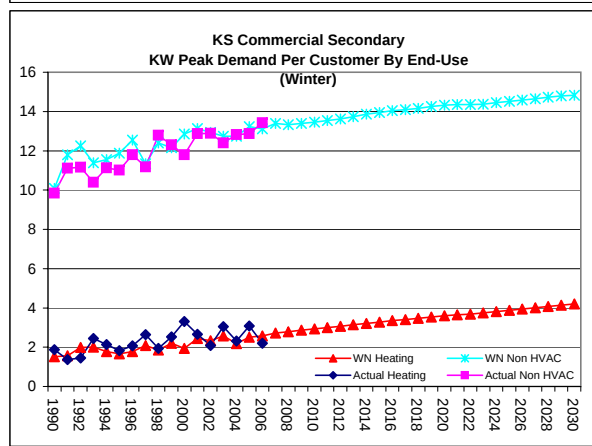
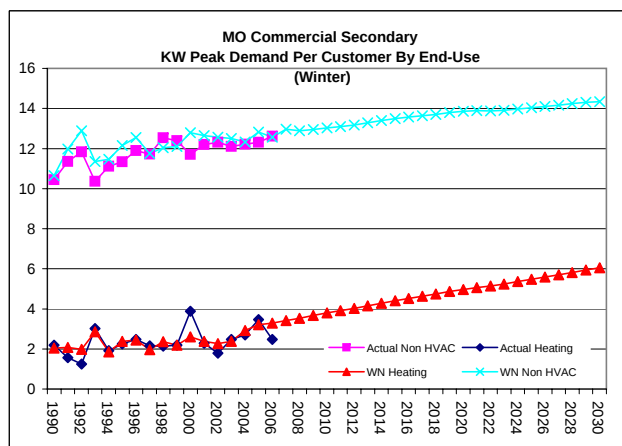
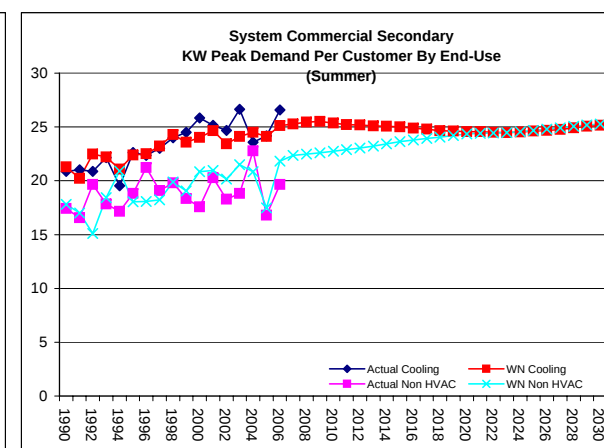
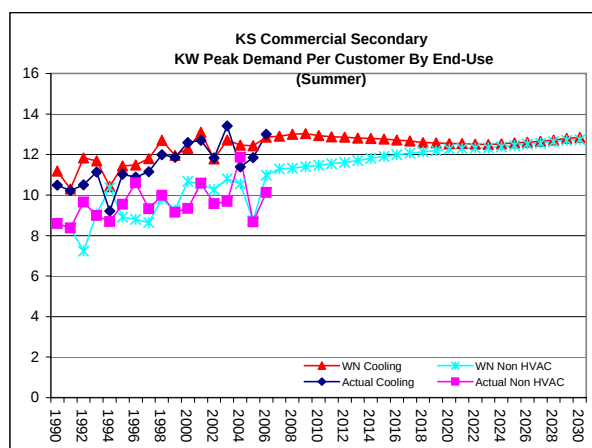
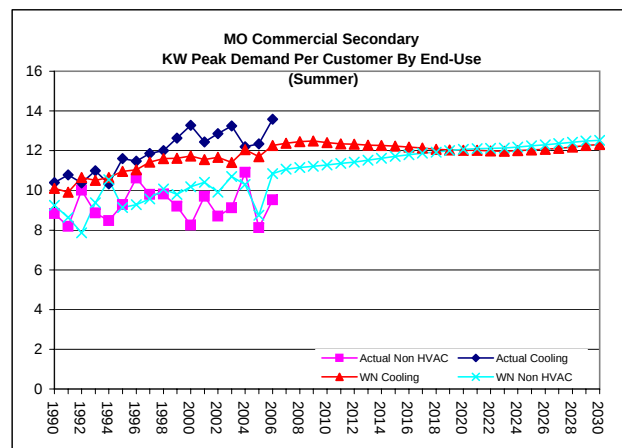
Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	6.6	7.0	1.5	1.3	1.2	1.1	2.6	2.6	7.8	8.1
1991	7.2	6.9	1.1	1.3	1.3	1.2	2.4	2.5	8.4	8.1
1992	4.2	6.9	0.9	1.3	2.3	1.6	2.5	2.7	6.5	8.5
1993	6.5	6.6	1.7	1.5	1.4	1.3	1.8	1.9	7.9	7.9
1994	5.9	5.9	1.3	1.2	1.4	1.7	2.5	2.6	7.3	7.6
1995	6.4	6.6	1.4	1.4	1.5	1.4	2.5	2.7	7.9	8.0
1996	5.5	6.5	1.6	1.5	1.8	1.5	2.5	2.7	7.2	8.0
1997	6.2	6.6	1.6	1.4	1.6	1.5	2.6	2.6	7.8	8.1
1998	6.0	6.3	1.5	1.6	1.7	1.6	2.8	2.7	7.7	7.9
1999	6.8	6.5	1.6	1.5	1.5	1.6	2.8	2.7	8.4	8.0
2000	7.2	6.1	2.7	1.8	1.5	1.7	2.6	2.7	8.7	7.8
2001	6.1	6.2	1.7	1.7	1.7	1.7	2.7	2.6	7.8	7.9
2002	6.6	6.1	1.4	1.7	1.6	1.7	2.9	2.8	8.2	7.8
2003	7.0	5.8	1.9	1.8	1.8	1.8	2.8	2.8	8.7	7.7
2004	5.1	6.4	2.0	2.1	2.0	1.7	2.9	2.8	7.0	8.1
2005	6.2	6.5	2.4	2.2	2.4	2.4	2.9	2.9	8.6	8.9
2006	6.8	6.3	1.8	2.3	1.6	1.7	3.0	2.9	8.5	8.1
2007		6.1		2.4		1.9		2.9		8.0
2008		6.0		2.4		1.9		2.9		7.9
2009		6.0		2.5		1.9		2.9		7.9
2010		5.9		2.5		1.9		2.9		7.8
2011		5.8		2.5		1.9		2.9		7.8
2012		5.8		2.6		2.0		2.9		7.7
2013		5.7		2.6		2.0		3.0		7.7
2014		5.7		2.7		2.0		3.0		7.6
2015		5.6		2.7		2.0		3.0		7.6
2016		5.6		2.8		2.0		3.0		7.6
2017		5.5		2.8		2.0		3.0		7.5
2018		5.5		2.8		2.0		3.0		7.5
2019		5.4		2.9		2.0		3.1		7.5
2020		5.4		2.9		2.1		3.1		7.5
2021		5.4		2.9		2.1		3.1		7.4
2022		5.3		2.9		2.1		3.1		7.4
2023		5.3		3.0		2.1		3.1		7.4
2024		5.3		3.0		2.1		3.1		7.4
2025		5.3		3.1		2.1		3.1		7.4
2026		5.3		3.1		2.1		3.1		7.4
2027		5.3		3.2		2.1		3.1		7.4
2028		5.3		3.2		2.1		3.1		7.4
2029		5.3		3.3		2.1		3.1		7.4
2030		5.4		3.3		2.1		3.1		7.5
	0.3%	-0.6%	1.1%	3.6%	1.9%	2.9%	1.0%	0.6%	0.5%	0.0%
		-1.3%		1.9%		1.1%		0.5%		-0.7%
		-1.0%		1.6%		0.7%		0.6%		-0.6%
		-0.7%		1.3%		0.6%		0.5%		-0.4%
		-0.4%		1.2%		0.2%		0.1%		-0.2%
		0.2%		1.5%		0.3%		0.2%		0.2%
		-0.6%		1.5%		0.5%		0.4%		-0.3%



Plot I-30 Missouri & Kansas Commercial Secondary KW Peak Demand Per Customer By End-Use

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	10.4	10.1	2.2	2.0	8.8	9.3	10.4	10.6	19.2	19.3	10.5	11.2	1.9	1.5	8.6	8.6	9.8	10.1	19.1	19.7
1991	10.8	9.9	1.6	2.1	8.2	8.6	11.4	12.0	19.0	18.5	10.2	10.3	1.4	1.6	8.4	8.4	11.1	11.8	18.6	18.7
1992	10.4	10.6	1.3	2.0	10.0	7.9	11.8	12.9	20.4	18.5	10.5	11.8	1.5	2.0	9.6	7.2	11.2	12.3	20.1	19.1
1993	11.0	10.5	3.0	2.9	8.9	9.4	10.4	11.4	19.9	19.9	11.1	11.7	2.4	2.0	9.0	9.1	10.4	11.4	20.1	20.8
1994	10.3	10.6	1.9	1.8	8.5	10.5	11.1	11.5	18.8	21.2	9.2	10.4	2.1	1.8	8.7	10.4	11.1	11.6	17.9	20.8
1995	11.6	11.0	2.2	2.4	9.3	9.1	11.3	12.1	20.9	20.1	11.0	11.4	1.8	1.7	9.5	8.9	11.0	11.9	20.6	20.3
1996	11.5	11.0	2.5	2.4	10.6	9.3	11.9	12.6	22.1	20.3	10.9	11.5	2.1	1.8	10.6	8.8	11.8	12.5	21.5	20.3
1997	11.9	11.4	2.2	2.0	9.8	9.6	11.7	11.8	21.7	21.0	11.2	11.8	2.6	2.1	9.3	8.6	11.2	11.3	20.5	20.4
1998	12.0	11.6	2.1	2.4	9.8	10.1	12.5	12.0	21.8	21.7	12.0	12.7	1.9	1.9	10.0	9.8	12.8	12.4	22.0	22.5
1999	12.6	11.6	2.2	2.2	9.2	9.8	12.4	12.1	21.8	21.4	11.9	12.0	2.5	2.2	9.1	9.3	12.3	12.2	21.0	21.2
2000	13.3	11.7	3.9	2.6	8.2	10.2	11.7	12.8	21.5	21.9	12.6	12.3	3.3	1.9	9.3	10.7	11.8	12.9	21.9	23.0
2001	12.4	11.6	2.3	2.4	9.7	10.4	12.2	12.6	22.1	22.0	12.7	13.1	2.7	2.4	10.6	10.5	12.9	13.1	23.3	23.6
2002	12.9	11.7	1.8	2.3	8.7	9.9	12.3	12.6	21.6	21.6	11.8	11.8	2.1	2.3	9.6	10.3	12.9	12.9	21.4	22.0
2003	13.2	11.4	2.5	2.4	9.1	10.7	12.1	12.5	22.4	22.1	13.4	12.7	3.0	2.6	9.7	10.8	12.4	12.7	23.1	23.5
2004	12.2	12.0	2.7	2.9	10.9	10.3	12.2	12.3	23.1	22.3	11.4	12.5	2.3	2.2	11.9	10.5	12.8	12.7	23.2	23.0
2005	12.3	11.7	3.5	3.2	8.1	8.8	12.3	12.8	20.5	20.5	11.8	12.4	3.1	2.5	8.7	8.7	12.9	13.2	20.5	21.2
2006	13.6	12.3	2.5	3.3	9.5	10.8	12.6	12.6	23.1	23.1	13.0	12.9	2.2	2.6	10.1	11.0	13.4	13.1	23.1	23.8
2007		12.4		3.4		11.1		13.0		23.4		12.9		2.7		11.3		13.4		24.2
2008		12.5		3.5		11.1		12.9		23.6		13.0		2.8		11.3		13.3		24.3
2009		12.5		3.7		11.2		12.9		23.7		13.0		2.9		11.4		13.4		24.4
2010		12.4		3.8		11.3		13.0		23.7		12.9		2.9		11.5		13.5		24.4
2011		12.3		3.9		11.4		13.1		23.7		12.9		3.0		11.5		13.5		24.4
2012		12.3		4.0		11.4		13.2		23.7		12.9		3.1		11.6		13.6		24.5
2013		12.3		4.2		11.5		13.3		23.8		12.8		3.1		11.7		13.7		24.5
2014		12.3		4.3		11.6		13.4		23.9		12.8		3.2		11.8		13.9		24.6
2015		12.2		4.4		11.7		13.5		24.0		12.8		3.3		11.9		13.9		24.7
2016		12.2		4.5		11.8		13.6		24.0		12.7		3.3		12.0		14.0		24.7
2017		12.1		4.6		11.9		13.6		24.0		12.7		3.4		12.1		14.1		24.7
2018		12.1		4.7		11.9		13.7		24.0		12.6		3.5		12.1		14.2		24.7
2019		12.0		4.9		12.0		13.8		24.0		12.6		3.5		12.2		14.3		24.8
2020		12.0		5.0		12.1		13.9		24.1		12.5		3.6		12.3		14.3		24.8
2021		12.0		5.1		12.1		13.9		24.1		12.5		3.6		12.3		14.4		24.8
2022		12.0		5.1		12.1		13.9		24.1		12.5		3.7		12.3		14.4		24.8
2023		12.0		5.2		12.1		13.9		24.1		12.5		3.7		12.3		14.4		24.8
2024		12.0		5.4		12.2		14.0		24.2		12.5		3.8		12.4		14.5		24.9
2025		12.0		5.5		12.2		14.0		24.3		12.6		3.9		12.4		14.5		25.0
2026		12.1		5.6		12.3		14.1		24.4		12.6		3.9		12.5		14.6		25.1
2027		12.1		5.7		12.4		14.2		24.5		12.6		4.0		12.6		14.6		25.2
2028		12.2		5.8		12.4		14.2		24.6		12.7		4.1		12.6		14.7		25.3
2029		12.3		5.9		12.5		14.3		24.8		12.8		4.1		12.7		14.8		25.5
2030		12.3		6.0		12.5		14.3		24.8		12.8		4.2		12.7		14.8		25.6
90-'06	1.7%	1.2%	0.8%	3.0%	0.5%	1.0%	1.2%	1.0%	1.2%	1.1%	1.4%	0.9%	1.0%	3.4%	1.0%	1.6%	2.0%	1.7%	1.2%	1.2%
07-'10		0.1%		3.5%		0.6%		0.1%		0.3%		0.1%		2.6%		0.5%		0.2%		0.3%
10-'15		-0.3%		3.0%		0.8%		0.7%		0.2%		-0.3%		2.2%		0.8%		0.7%		0.2%
15-'20		-0.4%		2.4%		0.6%		0.5%		0.1%		-0.4%		1.9%		0.6%		0.5%		0.1%
20-'25		0.0%		2.0%		0.3%		0.3%		0.2%		0.0%		1.5%		0.3%		0.3%		0.2%
25-'30		0.4%		2.0%		0.5%		0.4%		0.5%		0.4%		1.7%		0.5%		0.4%		0.5%
07-'30		0.0%		2.5%		0.5%		0.4%		0.3%		0.0%		1.9%		0.5%		0.4%		0.2%

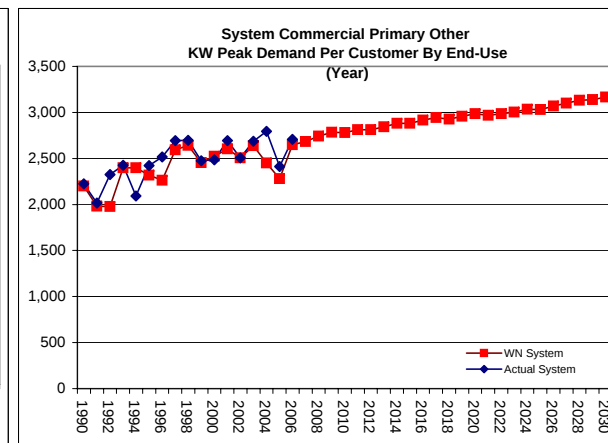
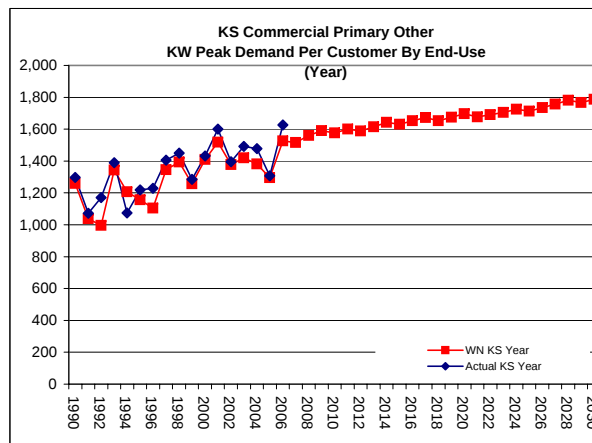
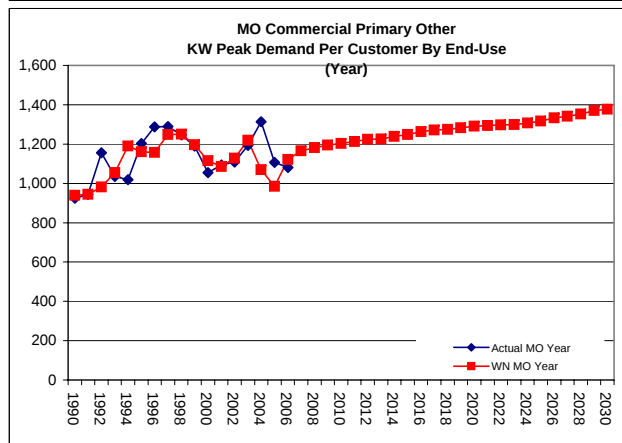
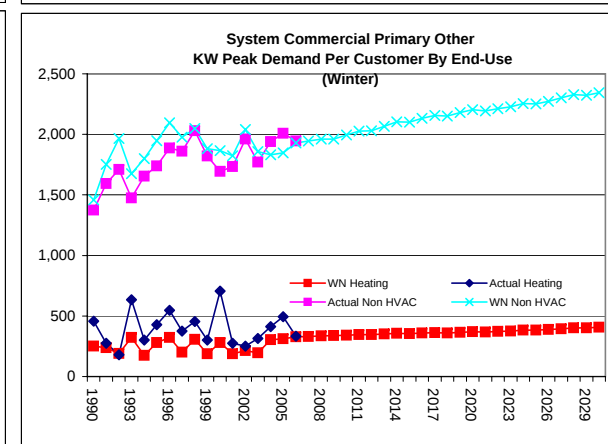
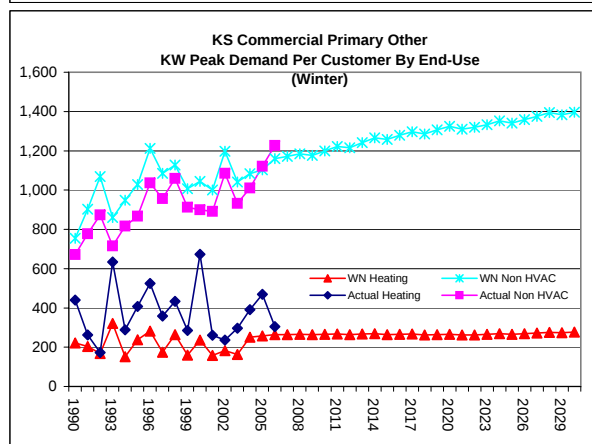
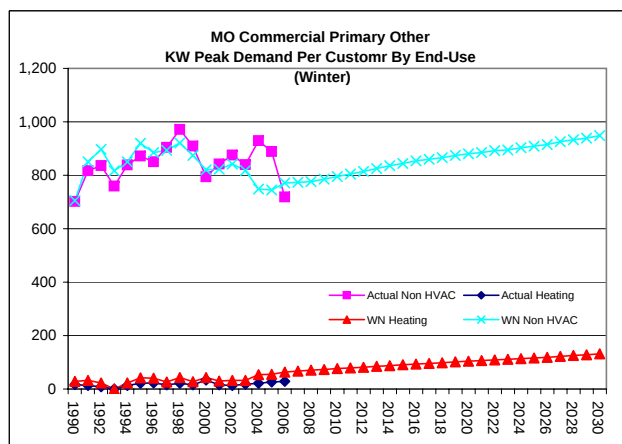
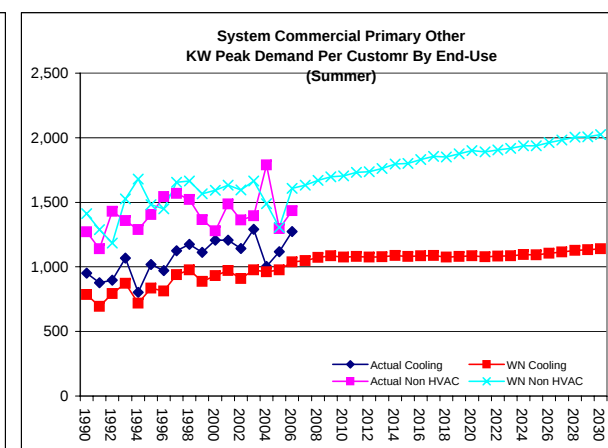
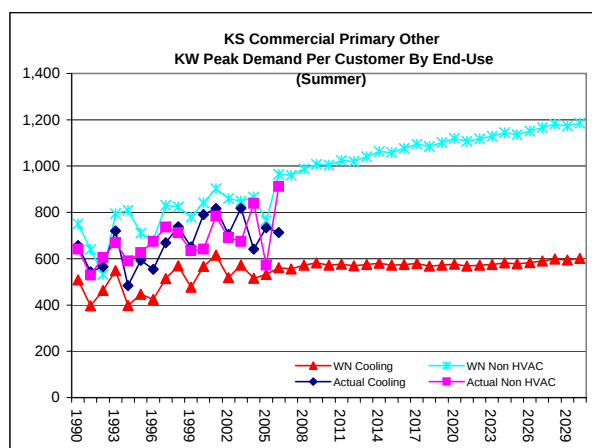
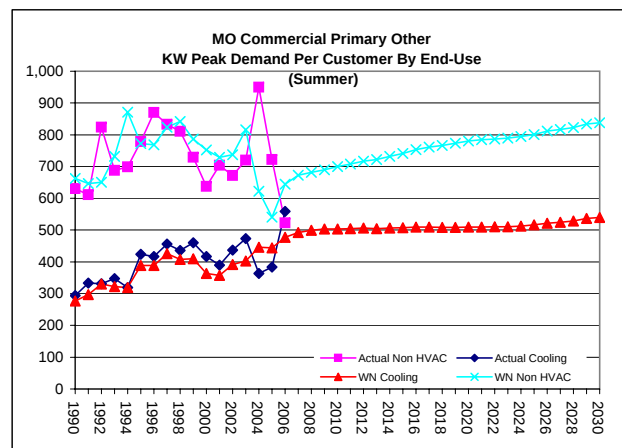
Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	20.9	21.3	4.1	3.6	17.4	17.8	20.3	20.7	38.3	39.1
1991	21.0	20.2	2.9	3.6	16.6	17.0	22.5	23.8	37.6	37.2
1992	20.9	22.5	2.7	4.0	19.6	15.1	23.0	25.1	40.5	37.6
1993	22.1	22.2	5.5	4.9	17.8	18.4	20.7	22.7	40.0	40.6
1994	19.5	21.1	4.0	3.6	17.2	20.9	22.2	23.0	36.7	42.0
1995	22.6	22.4	4.1	4.0	18.8	18.0	22.4	24.0	41.5	40.4
1996	22.4	22.5	4.6	4.2	21.2	18.1	23.7	25.1	43.6	40.6
1997	23.0	23.2	4.8	4.1	19.1	18.2	22.9	23.1	42.1	41.4
1998	24.0	24.3	4.1	4.2	19.8	19.9	25.3	24.5	43.8	44.2
1999	24.5	23.6	4.7	4.4	18.3	19.1	24.7	24.3	42.8	42.6
2000	25.8	24.0	7.2	4.5	17.6	20.9	23.5	25.6	43.4	44.9
2001	25.1	24.6	4.9	4.8	20.3	21.0	25.1	25.8	45.4	45.6
2002	24.7	23.4	3.9	4.6	18.3	20.2	25.2	25.5	43.0	43.6
2003	26.6	24.1	5.5	5.0	18.8	21.5	24.5	25.2	45.5	45.6
2004	23.6	24.5	5.0	5.1	22.8	20.8	25.0	25.1	46.3	45.4
2005	24.2	24.1	6.5	5.7	16.8	17.5	25.2	26.1	41.0	41.6
2006	26.6	25.1	4.7	5.9	19.7	21.8	26.0	25.7	46.2	46.9
2007		25.3		6.1		22.4		26.4		47.6
2008		25.5		6.3		22.5		26.2		47.9
2009		25.5		6.5		22.6		26.3		48.1
2010		25.3		6.7		22.8		26.5		48.1
2011		25.2		6.9		22.9		26.6		48.1
2012		25.2		7.1		23.0		26.8		48.2
2013		25.1		7.3		23.2		27.0		48.3
2014		25.1		7.5		23.4		27.3		48.5
2015		25.0		7.7		23.6		27.4		48.6
2016		24.9		7.9		23.8		27.6		48.7
2017		24.8		8.0		23.9		27.7		48.7
2018		24.7		8.2		24.0		27.9		48.7
2019		24.6		8.4		24.2		28.1		48.8
2020		24.6		8.6		24.3		28.2		48.9
2021		24.5		8.7		24.4		28.2		48.9
2022		24.5		8.8		24.4		28.2		48.9
2023		24.5		9.0		24.5		28.3		48.9
2024		24.5		9.2		24.6		28.4		49.1
2025		24.6		9.3		24.7		28.6		49.3
2026		24.7		9.5		24.8		28.7		49.5
2027		24.8		9.7		24.9		28.8		49.7
2028		24.9		9.9		25.0		29.0		50.0
2029		25.1		10.1		25.2		29.1		50.3
2030		25.2		10.3		25.3		29.2		50.4
	1.5%	1.0%	0.9%	3.2%	0.8%	1.3%	1.6%	1.3%	1.2%	1.2%
		0.1%		3.1%		0.6%		0.1%		0.3%
		-0.3%		2.7%		0.8%		0.7%		0.2%
		-0.4%		2.2%		0.6%		0.5%		0.1%
		0.0%		1.8%		0.3%		0.3%		0.2%
		0.4%		1.9%		0.5%		0.4%		0.5%
		0.0%		2.3%		0.5%		0.4%		0.2%



Plot I-31 Missouri & Kansas Commercial Primary Other KW Peak Demand Per Customer By End-Use

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	294.0	277.2	17.0	29.0	630.9	662.5	701.5	705.1	924.9	939.7	656.8	508.9	439.6	222.3	641.0	750.9	672.1	754.4	1,297.8	1,259.8
1991	333.5	297.1	13.6	32.8	610.8	646.8	816.4	849.8	944.4	944.0	542.5	397.3	261.8	204.1	529.1	640.6	777.1	903.3	1,071.6	1,037.9
1992	331.5	329.9	8.0	23.2	823.9	650.9	836.2	896.6	1,155.4	980.7	565.2	462.7	172.3	167.7	604.6	532.6	873.6	1,069.2	1,169.8	995.3
1993	347.7	322.4	-	-	687.9	731.9	758.7	816.4	1,035.7	1,054.3	719.7	548.5	634.4	321.7	669.4	795.2	714.8	859.5	1,389.1	1,343.7
1994	319.7	319.7	13.2	23.0	698.5	870.8	838.3	850.6	1,018.1	1,190.5	484.0	398.0	288.7	151.2	589.9	807.9	815.7	948.0	1,073.9	1,205.9
1995	424.1	388.5	21.7	42.0	778.7	772.4	871.4	920.3	1,202.8	1,160.9	593.1	446.5	406.8	237.3	626.0	709.8	867.1	1,027.5	1,219.1	1,156.3
1996	416.9	388.9	22.4	40.5	870.1	768.0	850.6	885.3	1,287.0	1,156.9	553.5	424.4	525.1	282.3	674.7	680.5	1,036.9	1,211.5	1,228.2	1,104.9
1997	456.0	425.9	16.0	26.5	832.5	823.3	904.6	893.6	1,288.4	1,249.2	669.0	513.8	358.8	175.0	736.4	830.9	956.3	1,084.5	1,405.4	1,344.7
1998	435.6	408.3	21.6	43.5	810.4	842.0	971.3	921.4	1,246.0	1,250.4	738.4	569.1	432.7	264.0	711.2	823.6	1,058.4	1,126.8	1,449.6	1,392.6
1999	460.0	410.0	15.3	27.9	729.5	786.5	908.8	874.0	1,189.5	1,196.5	651.5	477.3	285.4	159.3	634.6	779.0	912.5	1,007.7	1,286.1	1,256.3
2000	416.7	364.0	34.1	43.1	637.3	751.8	793.4	820.3	1,054.0	1,115.7	790.0	567.2	672.2	236.9	641.0	841.6	899.3	1,044.5	1,431.0	1,408.8
2001	390.0	357.2	15.0	29.5	703.4	728.9	841.5	822.7	1,093.4	1,086.1	816.6	614.9	260.8	158.1	783.4	902.7	891.9	1,000.9	1,600.0	1,517.6
2002	437.4	391.2	13.3	31.7	671.7	736.7	875.3	842.1	1,109.2	1,127.9	704.5	517.9	237.0	182.7	691.3	859.1	1,084.6	1,197.9	1,395.7	1,377.0
2003	473.6	402.9	17.6	32.0	719.6	816.0	839.8	817.4	1,193.2	1,218.9	818.1	572.1	297.2	162.9	674.2	848.5	931.3	1,040.7	1,492.3	1,420.6
2004	364.0	446.4	22.0	54.4	950.1	622.3	929.4	749.1	1,314.0	1,068.7	640.6	515.3	391.5	250.5	838.3	866.8	1,010.5	1,082.9	1,478.9	1,382.0
2005	384.1	443.8	26.1	54.7	722.1	540.9	888.9	745.1	1,106.2	984.7	734.3	531.7	468.8	257.8	572.6	764.1	1,120.5	1,103.2	1,306.9	1,295.8
2006	558.8	477.7	28.4	63.3	522.5	644.1	718.7	770.8	1,081.3	1,121.8	713.5	561.3	304.2	263.5	912.0	964.9	1,226.7	1,159.7	1,625.5	1,526.2
2007		492.4		67.2		672.8		774.0		1,165.2		556.1		263.2		960.5		1,170.8		1,516.6
2008		499.4		70.1		681.8		776.5		1,181.1		572.5		266.4		988.3		1,184.0		1,560.8
2009		503.9		73.3		690.1		785.2		1,194.0		581.7		264.1		1,007.7		1,176.9		1,589.4
2010		503.9		76.3		699.4		794.9		1,203.3		571.7		265.5		1,004.1		1,199.3		1,575.9
2011		504.3		79.1		708.1		804.4		1,212.3		576.1		267.3		1,023.8		1,222.0		1,599.9
2012		506.6		81.9		717.0		814.0		1,223.5		569.1		263.9		1,019.7		1,216.0		1,588.8
2013		504.4		84.9		721.9		825.2		1,226.4		574.3		266.5		1,040.8		1,240.9		1,615.1
2014		506.2		87.9		732.4		836.5		1,238.6		580.3		269.0		1,063.1		1,266.3		1,643.3
2015		507.3		90.6		741.4		844.5		1,248.7		571.9		264.5		1,059.1		1,257.6		1,631.0
2016		509.9		93.5		753.6		853.4		1,263.5		575.0		265.8		1,076.9		1,279.1		1,651.9
2017		509.8		96.1		761.0		859.8		1,270.7		578.7		266.9		1,094.8		1,297.1		1,673.4
2018		508.3		98.6		766.6		865.6		1,274.9		567.8		261.8		1,085.4		1,285.0		1,653.2
2019		508.7		101.5		773.3		874.4		1,282.0		571.9		264.0		1,102.2		1,306.3		1,674.1
2020		509.4		103.8		780.7		880.8		1,290.1		576.5		265.6		1,120.1		1,324.1		1,696.5
2021		510.0		106.1		784.0		884.5		1,294.1		568.1		261.8		1,107.7		1,309.3		1,675.8
2022		510.3		108.7		786.6		891.7		1,296.9		571.9		263.1		1,118.3		1,319.8		1,690.2
2023		510.3		111.0		789.0		895.2		1,299.4		575.5		265.0		1,129.0		1,333.5		1,704.4
2024		512.9		113.8		794.3		902.5		1,307.1		582.1		268.4		1,143.8		1,352.4		1,725.9
2025		516.3		116.5		800.8		908.8		1,317.1		577.1		265.7		1,135.7		1,341.5		1,712.8
2026		522.0		119.1		811.4		914.7		1,333.4		583.4		268.6		1,151.1		1,358.3		1,734.5
2027		525.2		122.5		816.8		926.2		1,342.0		590.5		271.9		1,166.1		1,375.4		1,756.7
2028		529.2		125.5		822.9		933.4		1,352.1		598.8		275.6		1,182.2		1,394.5		1,781.0
2029		536.6		128.2		834.0		939.3		1,370.6		594.6		273.3		1,173.5		1,382.7		1,768.1
2030		539.6		131.6		837.7		948.8		1,377.3		601.4		276.3		1,186.0		1,396.6		1,787.4
90-'06	4.1%	3.5%	3.3%	5.0%	-1.2%	-0.2%	0.2%	0.6%	1.0%	1.1%	0.5%	0.6%	-2.3%	1.1%	2.2%	1.6%	3.8%	2.7%	1.4%	1.2%
07-'10		0.8%		4.3%		1.3%		0.9%		1.1%		0.9%		0.3%		1.5%		0.8%		1.3%
10-'15		0.1%		3.5%		1.2%		1.2%		0.7%		0.0%		-0.1%		1.1%		1.0%		0.7%
15-'20		0.1%		2.7%		1.0%		0.8%		0.7%		0.2%		0.1%		1.1%		1.0%		0.8%
20-'25		0.3%		2.3%		0.5%		0.6%		0.4%		0.0%		0.0%		0.3%		0.3%		0.2%
25-'30		0.9%		2.5%		0.9%		0.9%		0.9%		0.8%		0.8%		0.9%		0.8%		0.9%
07-'30		0.4%		3.0%		1.0%		0.9%		0.7%		0.3%		0.2%		0.9%		0.8%		0.7%

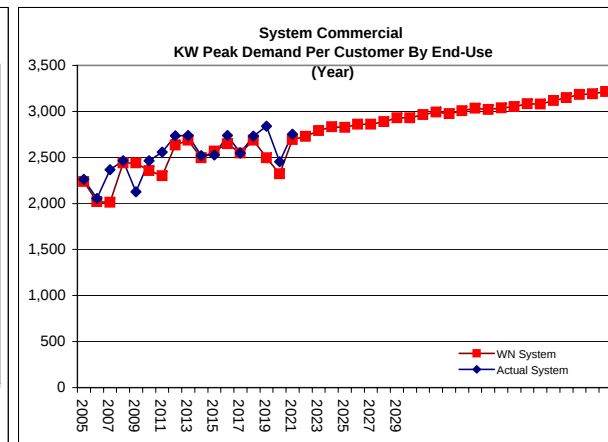
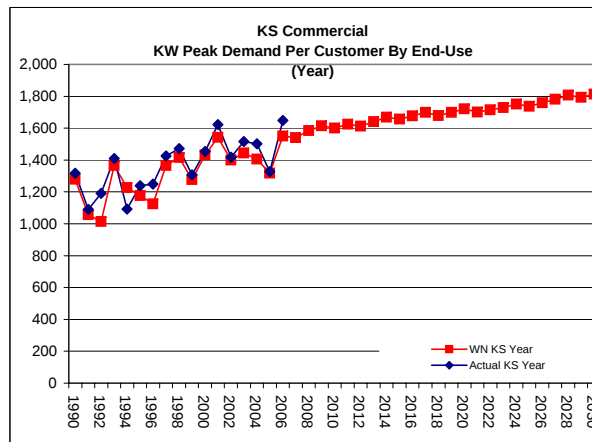
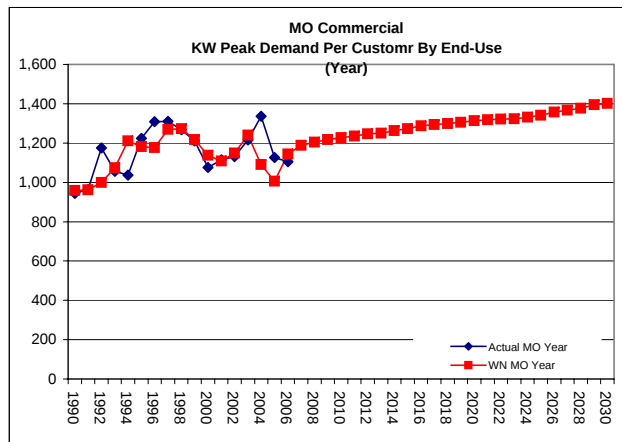
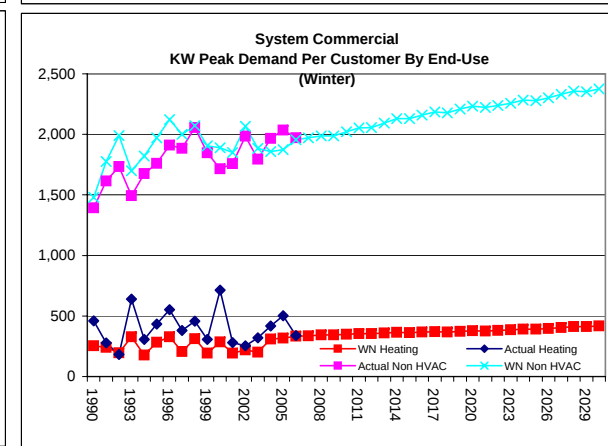
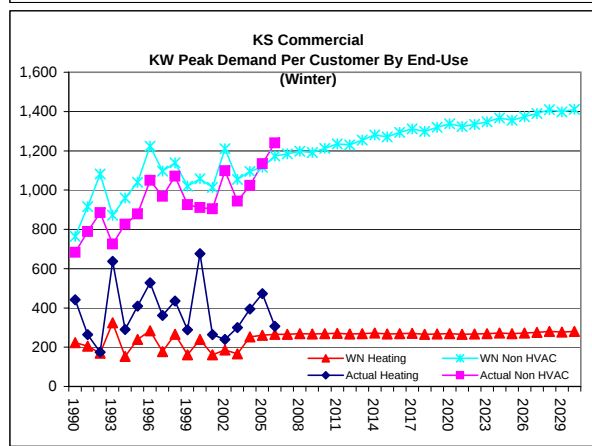
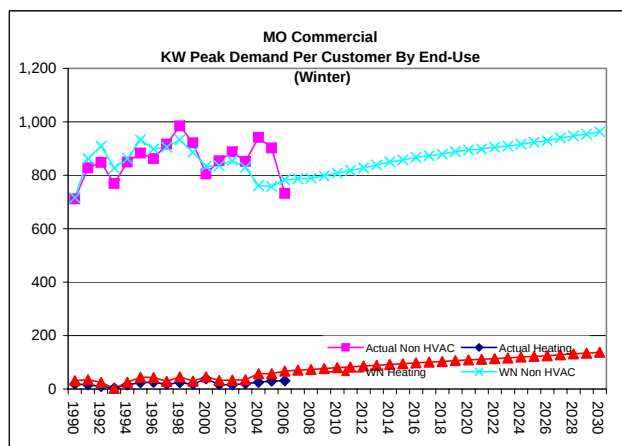
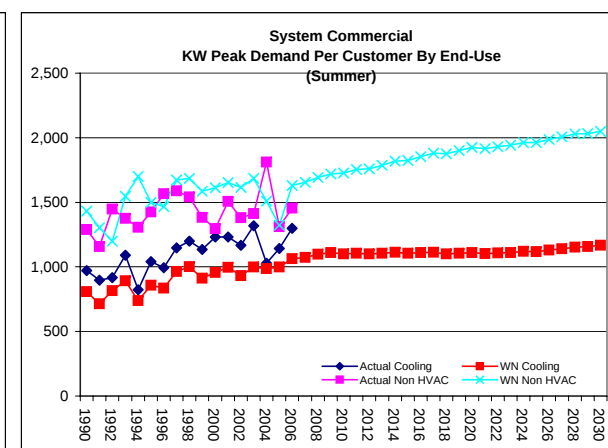
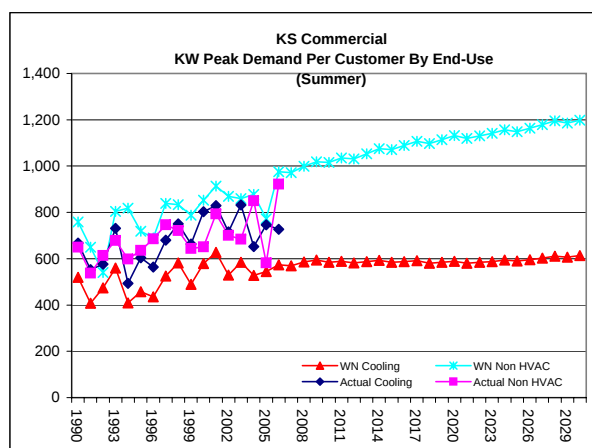
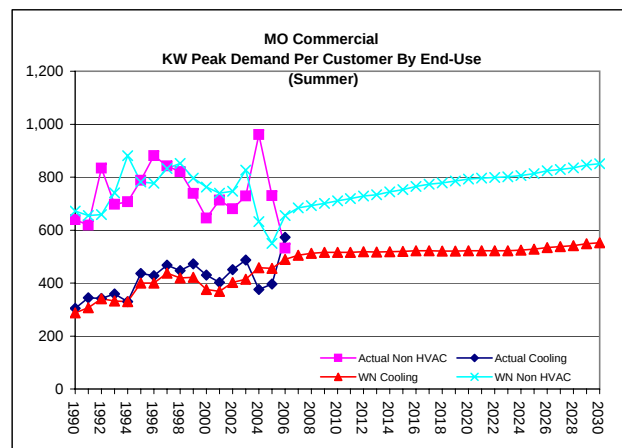
Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	950.9	786.1	456.5	251.3	1,271.9	1,413.4	1,373.6	1,459.5	2,222.8	2,199.5
1991	876.0	694.4	275.5	236.9	1,139.9	1,287.4	1,593.5	1,753.1	2,016.0	1,981.8
1992	896.7	792.6	180.4	190.9	1,428.5	1,183.4	1,709.8	1,965.8	2,325.2	1,976.0
1993	1,067.4	870.9	634.4	321.7	1,357.3	1,527.1	1,473.5	1,676.0	2,424.8	2,398.0
1994	803.7	717.7	301.9	174.2	1,288.4	1,678.8	1,653.9	1,798.5	2,092.1	2,396.5
1995	1,017.2	835.0	428.6	279.2	1,404.6	1,482.2	1,738.5	1,947.8	2,421.9	2,317.2
1996	970.4	813.3	547.5	322.7	1,544.8	1,448.5	1,887.4	2,096.8	2,515.2	2,261.8
1997	1,125.0	939.7	374.8	201.6	1,568.8	1,654.2	1,860.9	1,978.1	2,693.8	2,593.9
1998	1,174.0	977.4	454.2	307.5	1,521.6	1,665.6	2,029.7	2,048.3	2,695.6	2,643.0
1999	1,111.5	887.3	300.7	187.3	1,364.1	1,565.5	1,821.3	1,881.6	2,475.6	2,452.8
2000	1,206.7	931.2	706.3	280.0	1,278.3	1,593.4	1,692.7	1,864.8	2,485.0	2,524.5
2001	1,206.6	972.1	275.8	187.5	1,486.8	1,631.6	1,733.3	1,823.5	2,693.4	2,603.7
2002	1,141.9	909.2	250.3	214.5	1,363.0	1,595.8	1,959.9	2,040.1	2,504.9	2,504.9
2003	1,291.8	975.0	314.8	194.9	1,393.7	1,664.6	1,771.1	1,858.1	2,685.5	2,639.5
2004	1,004.5	961.7	413.5	304.9	1,788.3	1,489.1	1,939.9	1,832.0	2,792.9	2,450.7
2005	1,118.4	975.5	494.9	312.5	1,294.8	1,305.0	2,009.4	1,848.3	2,413.2	2,280.5
2006	1,272.3	1,039.0	332.7	326.9	1,434.5	1,608.9	1,945.5	1,930.5	2,706.8	2,648.0
2007		1,048.5		330.4		1,633.3		1,944.9		2,681.8
2008		1,071.9		336.5		1,670.1		1,960.5		2,742.0
2009		1,085.6		337.5		1,697.8		1,962.1		2,783.4
2010		1,075.6		341.8		1,703.5		1,994.2		2,779.2
2011		1,080.4		346.5		1,731.8		2,026.5		2,812.2
2012		1,075.7		345.9		1,736.7		2,030.1		2,812.3
2013		1,078.8		351.4		1,762.7		2,066.0		2,841.5
2014		1,086.5		357.0		1,795.4		2,102.8		2,881.9
2015		1,079.2		355.1		1,800.4		2,102.2		2,879.7
2016		1,084.9		359.3		1,830.5		2,132.5		2,915.4
2017		1,088.4		363.0		1,855.7		2,156.9		2,944.2
2018		1,076.2		360.4		1,852.0		2,150.6		2,928.1
2019		1,080.6		365.5		1,875.5		2,180.7		2,956.1
2020		1,085.9		369.4		1,900.7		2,204.9		2,986.6
2021		1,078.2		367.9		1,891.7		2,193.9		2,969.9
2022		1,082.2		371.8		1,904.9		2,211.5		2,987.1
2023		1,085.8		376.1		1,918.0		2,228.7		3,003.8
2024		1,095.0		382.2		1,938.1		2,254.9		3,033.0
2025		1,093.4		382.3		1,936.5		2,250.3		3,029.9
2026		1,105.4		387.7		1,962.5		2,273.0		3,067.9
2027		1,115.7		394.4		1,982.9		2,301.7		3,098.6
2028		1,128.0		401.1		2,005.1		2,327.9		3,133.0
2029		1,131.2		401.5		2,007.5		2,322.0		3,138.7
2030		1,141.0		407.9		2,023.7		2,345.4		3,164.7
	1.8%	1.8%	-2.0%	1.7%	0.8%	0.8%	2.2%	1.8%	1.2%	1.2%
		0.9%		1.1%		1.4%		0.8%		1.2%
		0.1%		0.8%		1.1%		1.1%		0.7%
		0.1%		0.8%		1.1%		1.0%		0.7%
		0.1%		0.7%		0.4%		0.4%		0.3%
		0.9%		1.3%		0.9%		0.8%		0.9%
		0.4%		0.9%		0.9%		0.8%		0.7%



Plot I-32 Missouri & Kansas Commercial KW Peak Demand Per Customer By End-Use

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	304.4	287.2	19.1	31.0	639.7	671.8	711.9	715.7	944.2	959.0	667.3	520.1	441.5	223.9	649.6	759.4	681.9	764.5	1,316.9	1,279.5
1991	344.3	307.0	15.2	34.9	619.0	655.5	827.7	861.8	963.3	962.5	552.8	407.6	263.2	205.6	537.5	648.9	788.2	915.1	1,090.2	1,056.6
1992	341.8	340.5	9.3	25.2	833.9	658.7	848.0	909.5	1,175.7	999.2	575.7	474.5	173.8	169.6	614.3	539.8	884.8	1,081.4	1,190.0	1,014.3
1993	358.7	332.9	3.0	2.9	696.8	741.3	769.1	827.8	1,055.6	1,074.2	730.8	560.2	636.8	323.7	678.4	804.3	725.2	870.9	1,409.2	1,364.5
1994	330.0	330.4	15.1	24.9	706.9	881.4	849.4	862.0	1,036.9	1,211.7	493.3	408.4	290.8	153.0	598.6	818.3	826.8	959.5	1,091.8	1,226.7
1995	435.7	399.5	24.0	44.3	788.0	781.5	882.8	932.4	1,223.7	1,181.0	604.1	458.0	408.6	238.9	635.5	718.7	878.1	1,039.4	1,239.6	1,176.7
1996	428.3	399.9	24.9	42.9	880.8	777.3	862.5	897.8	1,309.1	1,177.2	564.4	435.9	527.2	284.1	685.3	689.3	1,048.6	1,224.1	1,249.7	1,125.2
1997	467.8	437.3	18.2	28.5	842.2	832.9	916.3	905.4	1,310.1	1,270.2	680.2	525.6	361.4	177.1	745.7	839.6	967.5	1,095.8	1,425.9	1,365.1
1998	447.6	419.9	23.7	45.9	820.2	852.1	983.9	933.5	1,267.8	1,272.0	750.4	581.8	434.6	265.9	721.2	833.4	1,071.1	1,139.2	1,471.6	1,415.2
1999	472.6	421.6	17.5	30.1	738.7	796.3	921.1	886.1	1,211.4	1,217.9	663.3	489.3	287.9	161.5	643.7	788.3	924.8	1,019.8	1,307.1	1,277.6
2000	429.9	375.7	38.0	45.7	645.5	761.9	805.1	833.1	1,075.5	1,137.7	802.6	579.5	675.5	238.8	650.3	852.3	911.1	1,057.4	1,452.9	1,431.7
2001	402.4	368.7	17.3	31.9	713.1	739.3	853.7	835.3	1,115.5	1,108.1	829.3	628.0	263.5	160.5	794.0	913.3	904.8	1,014.0	1,623.3	1,541.3
2002	450.3	402.9	15.1	34.0	680.5	746.6	887.6	854.7	1,130.7	1,149.5	716.3	529.7	239.1	185.1	700.8	869.4	1,097.5	1,210.9	1,417.1	1,399.1
2003	486.9	414.3	20.1	34.3	728.7	826.7	851.9	829.9	1,215.5	1,241.0	831.5	584.8	300.3	165.5	683.8	859.3	943.7	1,053.5	1,515.4	1,444.2
2004	376.2	458.4	24.7	57.4	961.0	632.6	941.6	761.4	1,337.1	1,091.0	652.0	527.7	393.8	252.7	850.1	877.3	1,023.3	1,095.7	1,502.1	1,405.0
2005	396.4	455.5	29.6	57.9	730.3	549.6	901.2	758.0	1,126.7	1,005.1	746.1	544.2	471.8	260.3	581.3	772.8	1,133.3	1,116.4	1,327.5	1,317.0
2006	572.4	490.0	30.9	66.6	532.0	654.9	731.4	783.3	1,104.4	1,144.9	726.5	574.2	306.5	266.1	922.1	975.8	1,240.1	1,172.8	1,648.6	1,550.1
2007		504.7		70.6		683.9		787.0		1,188.6		569.0		266.0		971.8		1,184.2		1,540.8
2008		511.8		73.6		692.9		789.4		1,204.7		585.5		269.2		999.7		1,197.3		1,585.2
2009		516.4		77.0		701.3		798.1		1,217.7		594.7		267.0		1,019.1		1,190.3		1,613.9
2010		516.3		80.1		710.7		807.9		1,227.0		584.7		268.4		1,015.6		1,212.8		1,600.3
2011		516.6		83.0		719.4		817.5		1,236.0		589.0		270.3		1,035.3		1,235.6		1,624.3
2012		518.9		86.0		728.4		827.2		1,247.3		582.0		267.0		1,031.3		1,229.7		1,613.3
2013		516.7		89.1		733.5		838.5		1,250.2		587.2		269.6		1,052.5		1,254.6		1,639.6
2014		518.5		92.2		744.0		849.9		1,262.5		593.1		272.3		1,074.9		1,280.2		1,667.9
2015		519.5		95.0		753.1		858.0		1,272.6		584.7		267.8		1,071.0		1,271.6		1,655.7
2016		522.1		98.0		765.4		867.0		1,287.5		587.7		269.1		1,088.9		1,293.1		1,676.6
2017		521.9		100.8		772.8		873.5		1,294.8		591.3		270.3		1,106.8		1,311.2		1,698.1
2018		520.4		103.4		778.5		879.3		1,298.9		580.4		265.3		1,097.5		1,299.2		1,677.9
2019		520.8		106.3		785.3		888.2		1,306.1		584.5		267.6		1,114.4		1,320.5		1,698.8
2020		521.5		108.7		792.7		894.6		1,314.2		589.0		269.2		1,132.3		1,338.4		1,721.3
2021		522.0		111.1		796.1		898.4		1,318.2		580.7		265.4		1,120.0		1,323.7		1,700.6
2022		522.3		113.8		798.7		905.6		1,321.0		584.4		266.8		1,130.6		1,334.1		1,715.0
2023		522.3		116.3		801.2		909.1		1,323.5		587.9		268.8		1,141.3		1,347.8		1,729.2
2024		524.9		119.2		806.4		916.4		1,331.3		594.6		272.2		1,156.2		1,366.9		1,750.8
2025		528.4		122.0		813.0		922.8		1,341.4		589.7		269.6		1,148.2		1,356.0		1,737.8
2026		534.1		124.7		823.7		928.8		1,357.7		596.0		272.5		1,163.6		1,372.9		1,759.6
2027		537.3		128.2		829.2		940.4		1,366.4		603.2		275.9		1,178.7		1,390.1		1,781.9
2028		541.4		131.3		835.3		947.6		1,376.7		611.5		279.7		1,194.8		1,409.3		1,806.3
2029		548.9		134.1		846.5		953.7		1,395.4		607.4		277.4		1,186.2		1,397.5		1,793.6
2030		551.9		137.6		850.3		963.1		1,402.1		614.2		280.5		1,198.7		1,411.4		1,813.0
90-'06	4.0%	3.4%	3.0%	4.9%	-1.1%	-0.2%	0.2%	0.6%	1.0%	1.1%	0.5%	0.6%	-2.3%	1.1%	2.2%	1.6%	3.8%	2.7%	1.4%	1.2%
07-'10		0.8%		4.3%		1.3%		0.9%		1.1%		0.9%		0.3%		1.5%		0.8%		1.3%
10-'15		0.1%		3.5%		1.2%		1.2%		0.7%		0.0%		0.0%		1.1%		1.0%		0.7%
15-'20		0.1%		2.7%		1.0%		0.8%		0.6%		0.1%		0.1%		1.1%		1.0%		0.8%
20-'25		0.3%		2.3%		0.5%		0.6%		0.4%		0.0%		0.0%		0.3%		0.3%		0.2%
25-'30		0.9%		2.4%		0.9%		0.9%		0.9%		0.8%		0.8%		0.9%		0.8%		0.9%
07-'30		0.4%		2.9%		1.0%		0.9%		0.7%		0.3%		0.2%		0.9%		0.8%		0.7%

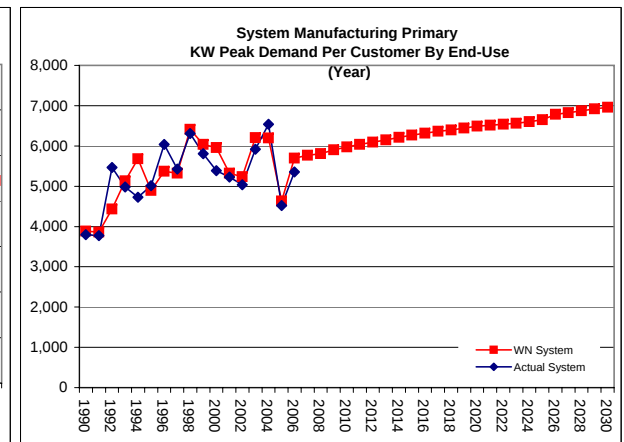
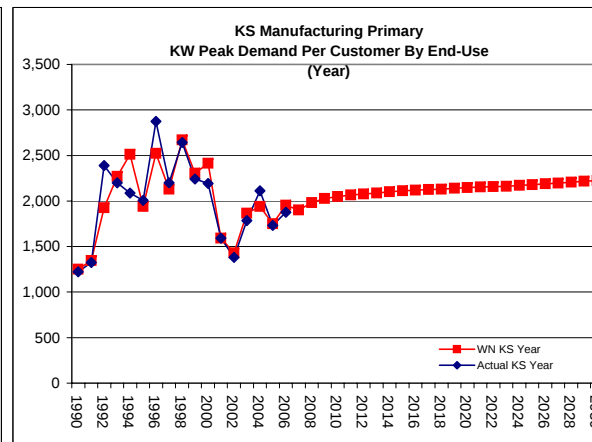
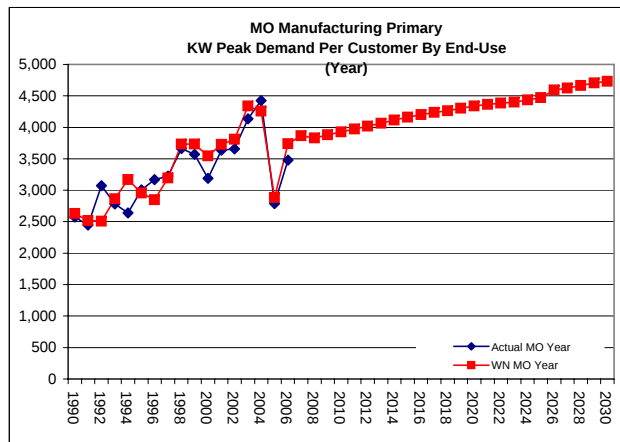
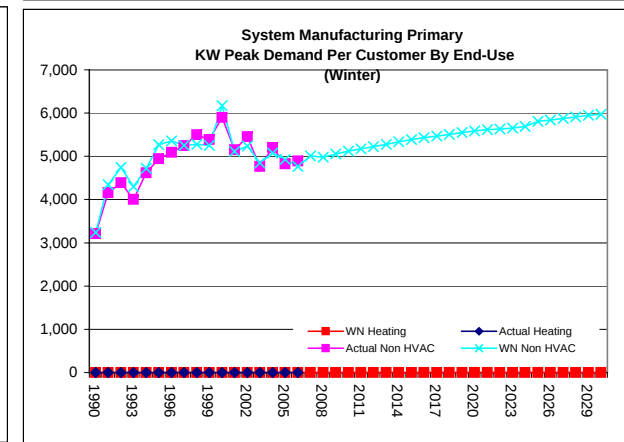
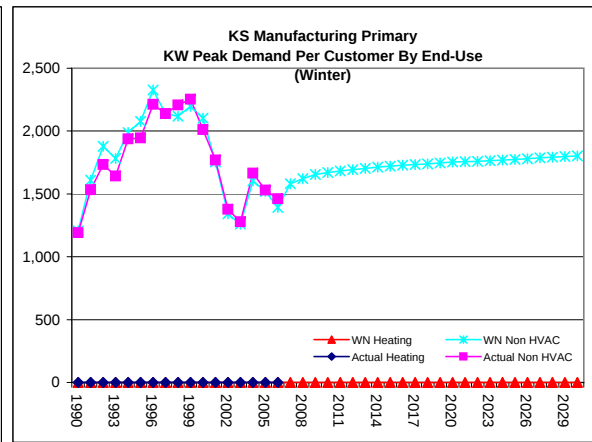
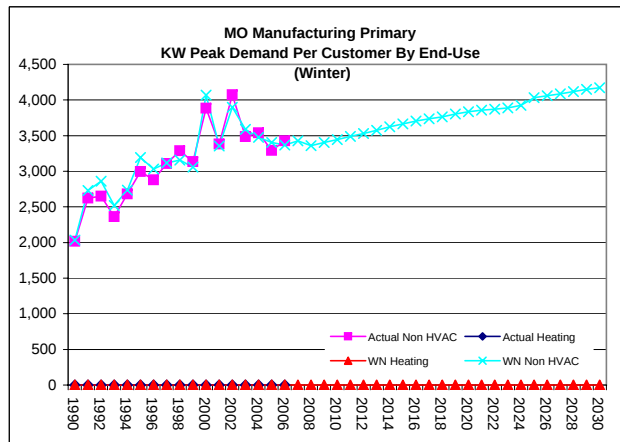
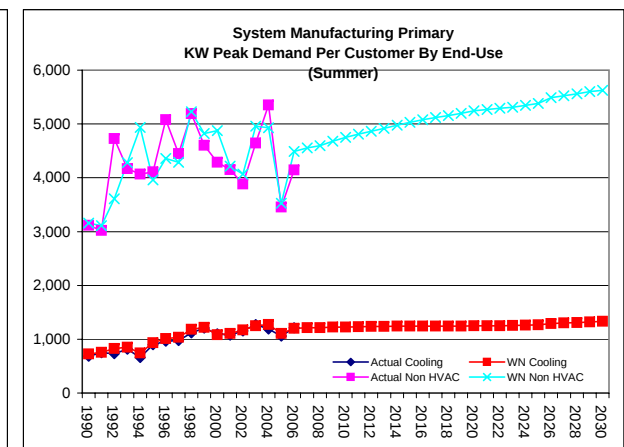
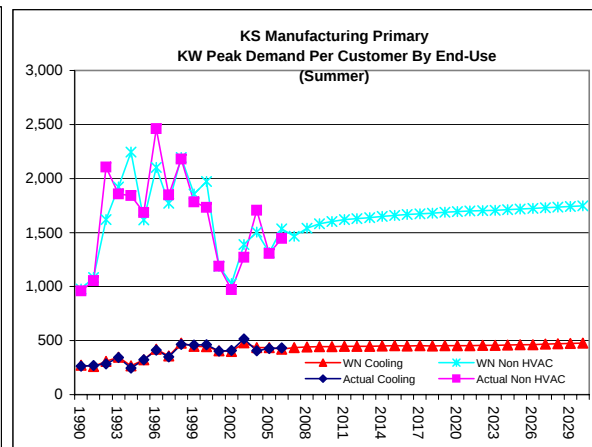
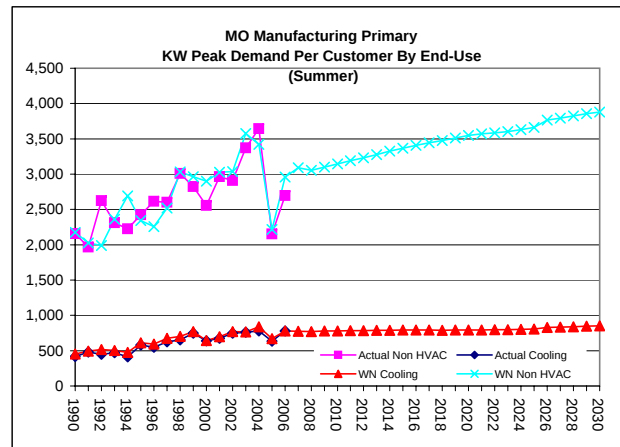
Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	971.7	807.4	460.6	254.9	1,289.4	1,431.2	1,393.9	1,480.2	2,261.1	2,238.6
1991	897.0	714.6	278.4	240.5	1,156.5	1,304.4	1,616.0	1,776.9	2,053.6	2,019.0
1992	917.5	815.0	183.1	194.8	1,448.2	1,198.5	1,732.8	1,990.9	2,365.7	2,013.6
1993	1,089.6	893.1	639.8	326.5	1,375.2	1,545.5	1,494.3	1,698.7	2,464.8	2,438.7
1994	823.2	738.8	305.9	177.9	1,305.5	1,699.7	1,676.2	1,821.6	2,128.7	2,438.5
1995	1,039.9	857.4	432.6	283.3	1,423.5	1,500.2	1,760.9	1,971.8	2,463.3	2,357.6
1996	992.7	835.8	552.1	327.0	1,566.1	1,466.6	1,911.1	2,121.9	2,558.8	2,302.4
1997	1,148.0	962.9	379.6	205.6	1,587.9	1,672.4	1,883.8	2,001.2	2,735.9	2,635.3
1998	1,198.0	1,001.7	458.3	311.7	1,541.4	1,685.5	2,055.0	2,072.7	2,739.4	2,687.2
1999	1,136.0	910.9	305.4	191.6	1,382.5	1,584.6	1,846.0	1,905.9	2,518.4	2,495.4
2000	1,232.6	955.2	713.5	284.6	1,295.8	1,614.2	1,716.2	1,890.5	2,528.4	2,569.4
2001	1,231.7	996.8	280.8	192.4	1,507.1	1,652.6	1,758.4	1,849.3	2,738.8	2,649.3
2002	1,166.6	932.6	254.2	219.1	1,381.3	1,615.9	1,985.1	2,065.6	2,547.9	2,548.6
2003	1,318.4	999.1	320.3	199.8	1,412.5	1,686.0	1,795.6	1,883.4	2,730.9	2,685.2
2004	1,028.1	986.2	418.5	310.1	1,811.1	1,509.9	1,965.0	1,857.1	2,839.2	2,496.1
2005	1,142.6	999.6	501.4	318.2	1,311.6	1,322.5	2,034.6	1,874.4	2,454.1	2,322.1
2006	1,298.9	1,064.2	337.3	332.8	1,454.1	1,630.8	1,971.5	1,956.2	2,753.0	2,694.9
2007		1,073.7		336.6		1,655.7		1,971.3		2,729.4
2008		1,097.3		342.8		1,692.6		1,986.7		2,789.9
2009		1,111.1		344.0		1,720.4		1,988.5		2,831.6
2010		1,101.0		348.5		1,726.3		2,020.7		2,827.3
2011		1,105.6		353.4		1,754.7		2,053.1		2,860.3
2012		1,100.8		352.9		1,759.7		2,056.9		2,860.5
2013		1,103.9		358.7		1,785.9		2,093.1		2,889.8
2014		1,111.5		364.5		1,818.9		2,130.1		2,930.4
2015		1,104.2		362.8		1,824.1		2,129.6		2,928.3
2016		1,109.8		367.2		1,854.3		2,160.1		2,964.1
2017		1,113.2		371.1		1,879.7		2,184.7		2,992.9
2018		1,100.8		368.6		1,876.0		2,178.5		2,976.8
2019		1,105.3		373.9		1,899.7		2,208.8		3,004.9
2020		1,110.5		377.9		1,925.1		2,233.1		3,035.5
2021		1,102.7		376.6		1,916.1		2,222.1		3,018.8
2022		1,106.8		380.6		1,929.3		2,239.7		3,036.1
2023		1,110.3		385.0		1,942.5		2,256.9		3,052.7
2024		1,119.5		391.4		1,962.6		2,283.3		3,082.1
2025		1,118.0		391.6		1,961.2		2,278.8		3,079.2
2026		1,130.0		397.2		1,987.3		2,301.7		3,117.4
2027		1,140.5		404.1		2,007.8		2,330.5		3,148.3
2028		1,152.9		411.0		2,030.1		2,356.9		3,183.0
2029		1,156.3		411.6		2,032.7		2,351.1		3,189.0
2030		1,166.1		418.1		2,049.0		2,374.6		3,215.1
	1.8%	1.7%	-1.9%	1.7%	0.8%	0.8%	2.2%	1.8%	1.2%	1.2%
		0.8%		1.2%		1.4%		0.8%		1.2%
		0.1%		0.8%		1.1%		1.1%		0.7%
		0.1%		0.8%		1.1%		1.0%		0.7%
		0.1%		0.7%		0.4%		0.4%		0.3%
		0.8%		1.3%		0.9%		0.8%		0.9%
		0.4%		0.9%		0.9%		0.8%		0.7%



Plot I-33 Missouri & Kansas Manufacturing Primary KW Peak Demand Per Customer By End-Use

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	418.5	455.0	-	-	2,156.5	2,176.9	2,018.4	2,035.0	2,575.0	2,631.9	263.8	271.4	-	-	958.5	978.0	1,191.3	1,205.9	1,222.3	1,249.4
1991	480.0	493.0	-	-	1,967.2	2,026.7	2,622.9	2,732.1	2,447.2	2,519.7	268.1	260.5	-	-	1,055.4	1,084.1	1,533.4	1,608.5	1,323.5	1,344.7
1992	449.8	516.5	-	-	2,624.2	1,989.1	2,651.5	2,861.9	3,074.1	2,505.6	283.0	307.4	-	-	2,105.7	1,619.4	1,733.5	1,877.8	2,388.8	1,926.8
1993	470.2	502.8	-	-	2,312.6	2,361.4	2,362.3	2,518.5	2,782.9	2,864.1	343.6	347.3	-	-	1,857.1	1,922.9	1,642.7	1,782.3	2,200.6	2,270.1
1994	413.5	476.9	-	-	2,225.2	2,692.1	2,682.8	2,734.0	2,638.7	3,169.0	245.8	267.9	-	-	1,840.8	2,243.8	1,938.1	1,989.4	2,086.6	2,511.8
1995	578.6	611.1	-	-	2,425.3	2,344.5	2,996.7	3,193.4	3,003.9	2,955.6	322.0	323.1	-	-	1,684.0	1,618.4	1,945.4	2,076.8	2,006.0	1,941.5
1996	550.5	592.3	-	-	2,616.1	2,255.8	2,880.0	3,031.7	3,166.7	2,848.0	412.6	421.4	-	-	2,461.1	2,101.2	2,211.4	2,325.8	2,873.6	2,522.6
1997	626.9	675.3	-	-	2,599.9	2,517.5	3,108.7	3,116.3	3,226.8	3,192.8	349.9	359.0	-	-	1,849.2	1,769.9	2,137.6	2,138.2	2,199.0	2,128.9
1998	651.9	704.4	-	-	3,011.1	3,030.6	3,287.6	3,157.8	3,663.0	3,735.0	464.3	478.0	-	-	2,178.7	2,194.4	2,207.7	2,117.7	2,643.0	2,672.4
1999	747.8	768.8	-	-	2,822.1	2,963.4	3,135.7	3,059.2	3,569.9	3,732.2	458.8	447.6	-	-	1,781.6	1,856.7	2,254.2	2,197.3	2,240.4	2,304.3
2000	636.9	641.4	-	-	2,554.7	2,902.5	3,885.6	4,069.0	3,191.6	3,543.9	462.3	443.3	-	-	1,732.0	1,972.2	2,011.5	2,103.1	2,194.3	2,415.4
2001	673.4	700.0	-	-	2,964.4	3,028.3	3,382.4	3,355.1	3,637.9	3,728.3	403.8	405.5	-	-	1,186.4	1,188.1	1,769.5	1,754.3	1,590.2	1,593.6
2002	745.8	772.3	-	-	2,911.2	3,036.7	4,075.5	3,897.9	3,657.0	3,809.0	409.8	400.0	-	-	971.5	1,028.7	1,378.2	1,341.2	1,381.3	1,428.7
2003	761.0	767.0	-	-	3,373.3	3,573.7	3,485.4	3,586.8	4,134.3	4,340.7	514.4	479.2	-	-	1,270.1	1,388.3	1,278.1	1,259.7	1,784.5	1,867.5
2004	779.7	837.1	-	-	3,645.4	3,421.7	3,539.1	3,476.2	4,425.0	4,258.8	406.7	435.7	-	-	1,706.1	1,505.6	1,664.2	1,603.1	2,112.8	1,941.3
2005	634.7	671.1	-	-	2,152.1	2,214.9	3,292.6	3,405.1	2,786.8	2,885.9	425.7	435.6	-	-	1,305.8	1,313.7	1,529.6	1,521.1	1,731.4	1,749.4
2006	779.3	781.0	-	-	2,698.0	2,957.5	3,427.6	3,370.2	3,477.3	3,738.5	432.2	421.4	-	-	1,445.5	1,533.2	1,461.0	1,391.9	1,877.8	1,954.6
2007		776.6	-	-		3,089.2		3,425.0		3,865.8		435.9	-	-		1,464.9		1,581.8		1,900.8
2008		772.2	-	-		3,055.4		3,357.3		3,827.6		441.0	-	-		1,541.4		1,622.3		1,982.4
2009		780.1	-	-		3,099.4		3,402.8		3,879.5		445.3	-	-		1,581.3		1,653.9		2,026.6
2010		780.7	-	-		3,146.0		3,446.5		3,926.7		445.3	-	-		1,603.4		1,671.3		2,048.7
2011		782.3	-	-		3,191.0		3,491.0		3,973.3		446.1	-	-		1,618.7		1,683.5		2,064.8
2012		785.7	-	-		3,232.4		3,529.0		4,018.1		448.7	-	-		1,628.9		1,693.1		2,077.6
2013		786.9	-	-		3,275.8		3,576.6		4,062.7		448.7	-	-		1,639.1		1,702.7		2,087.8
2014		789.7	-	-		3,325.1		3,625.2		4,114.9		450.4	-	-		1,649.3		1,712.4		2,099.7
2015		791.5	-	-		3,369.1		3,663.4		4,160.6		452.1	-	-		1,658.7		1,720.4		2,110.7
2016		791.4	-	-		3,408.7		3,704.0		4,200.1		451.2	-	-		1,667.2		1,728.4		2,118.4
2017		791.5	-	-		3,445.1		3,734.5		4,236.6		452.1	-	-		1,674.0		1,733.9		2,126.0
2018		789.7	-	-		3,473.9		3,764.2		4,263.6		450.4	-	-		1,679.9		1,739.3		2,130.3
2019		791.5	-	-		3,510.9		3,805.6		4,302.4		452.1	-	-		1,687.6		1,747.3		2,139.6
2020		792.9	-	-		3,547.5		3,835.8		4,340.4		452.9	-	-		1,695.2		1,753.8		2,148.1
2021		794.9	-	-		3,568.8		3,857.9		4,363.8		453.8	-	-		1,699.5		1,757.6		2,153.2
2022		796.7	-	-		3,586.8		3,871.2		4,383.6		454.6	-	-		1,702.8		1,759.8		2,157.4
2023		797.9	-	-		3,604.3		3,889.8		4,402.2		455.5	-	-		1,707.1		1,763.5		2,162.6
2024		802.3	-	-		3,630.8		3,923.9		4,433.2		458.0	-	-		1,712.2		1,769.9		2,170.2
2025		807.9	-	-		3,663.6		4,031.7		4,471.6		461.4	-	-		1,719.0		1,775.6		2,180.4
2026		828.4	-	-		3,765.4		4,057.8		4,593.8		463.1	-	-		1,724.9		1,780.4		2,188.0
2027		833.5	-	-		3,792.0		4,086.9		4,625.4		466.5	-	-		1,730.0		1,786.1		2,196.5
2028		840.4	-	-		3,824.6		4,120.0		4,665.0		469.9	-	-		1,736.0		1,792.6		2,205.9
2029		848.0	-	-		3,857.8		4,150.8		4,705.8		474.1	-	-		1,742.8		1,798.3		2,216.9
2030		853.1	-	-		3,878.6		4,170.6		4,731.7		477.5	-	-		1,747.0		1,802.3		2,224.6
90-'06	4.0%	3.4%	0.0%	0.0%	1.4%	1.9%	3.4%	3.2%	1.9%	2.2%	3.1%	2.8%	0.0%	0.0%	2.6%	2.8%	1.3%	0.9%	2.7%	2.8%
07-'10		0.2%		0.0%		0.6%		0.2%		0.5%		0.7%		0.0%		3.1%		1.9%		2.5%
10-'15		0.3%		0.0%		1.4%		1.2%		1.2%		0.3%		0.0%		0.7%		0.6%		0.6%
15-'20		0.0%		0.0%		1.0%		0.9%		0.8%		0.0%		0.0%		0.4%		0.4%		0.4%
20-'25		0.4%		0.0%		0.6%		1.0%		0.6%		0.4%		0.0%		0.3%		0.2%		0.3%
25-'30		1.1%		0.0%		1.1%		0.7%		1.1%		0.7%		0.0%		0.3%		0.3%		0.4%
07-'30		0.4%		0.0%		1.0%		0.9%		0.9%		0.4%		0.0%		0.8%		0.6%		0.7%

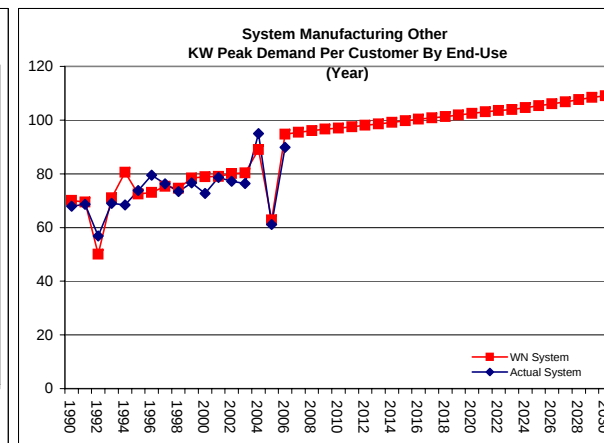
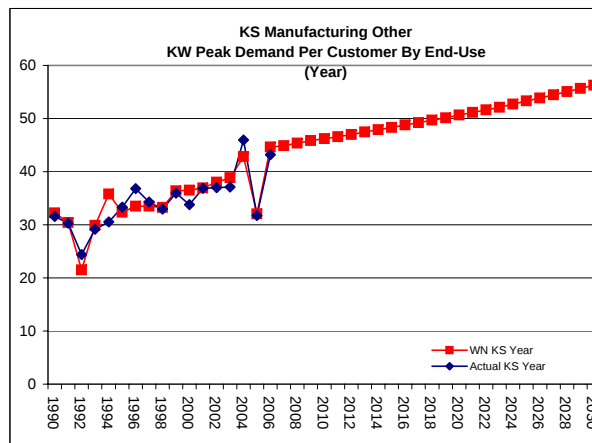
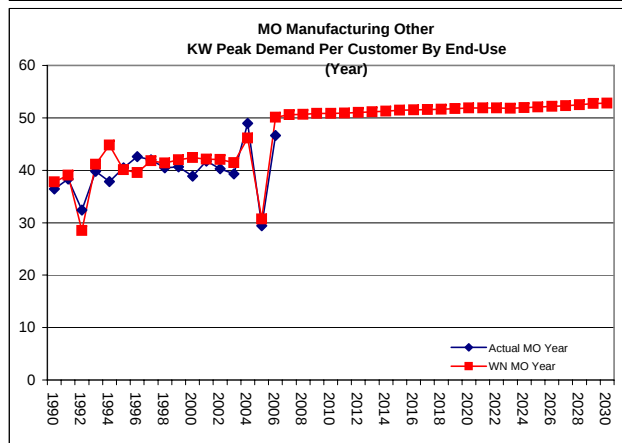
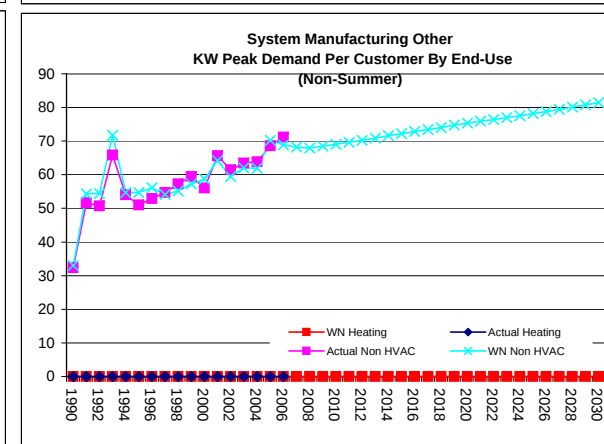
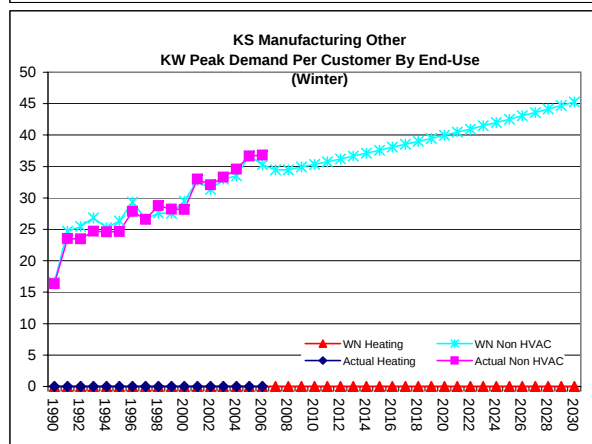
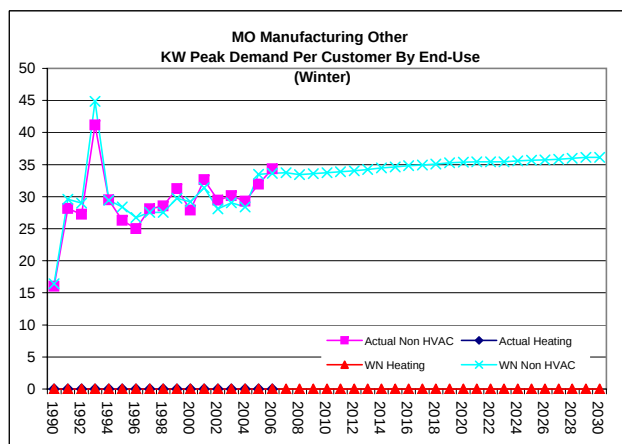
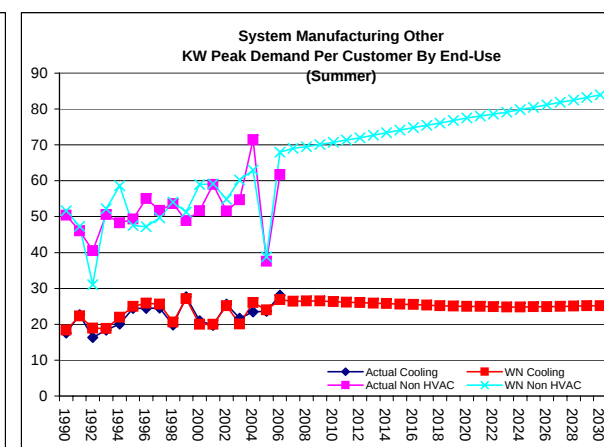
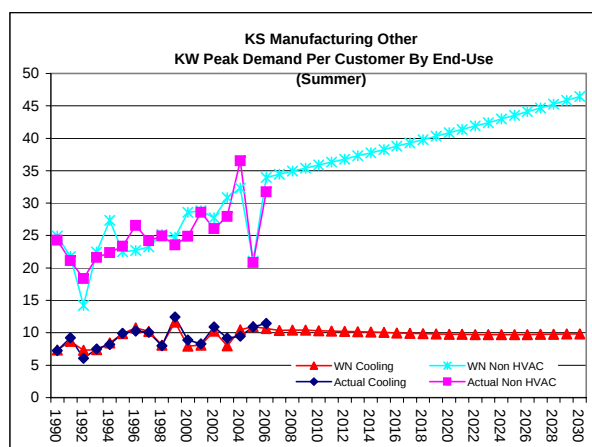
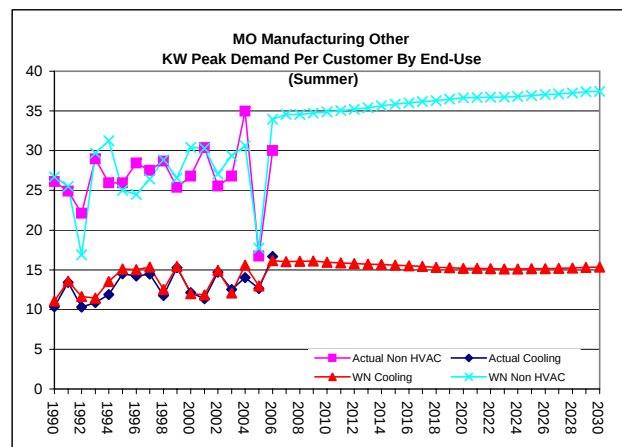
Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	682.3	726.4	-	-	3,115.0	3,154.8	3,209.7	3,240.9	3,797.3	3,881.3
1991	748.1	753.6	-	-	3,022.7	3,110.8	4,156.3	4,340.6	3,770.7	3,864.4
1992	732.9	823.9	-	-	4,729.9	3,608.5	4,385.0	4,739.7	5,462.8	4,432.3
1993	813.8	850.1	-	-	4,169.7	4,284.2	4,005.0	4,300.9	4,983.5	5,134.3
1994	659.4	744.8	-	-	4,066.0	4,935.9	4,620.9	4,723.4	4,725.3	5,680.8
1995	900.6	934.2	-	-	4,109.3	3,962.9	4,942.2	5,270.1	5,009.9	4,897.1
1996	963.1	1,013.6	-	-	5,077.2	4,357.0	5,091.5	5,357.6	6,040.3	5,370.6
1997	976.8	1,034.4	-	-	4,449.1	4,287.4	5,246.3	5,254.5	5,425.9	5,321.7
1998	1,116.2	1,182.4	-	-	5,189.8	5,225.0	5,495.3	5,275.4	6,306.0	6,407.4
1999	1,206.7	1,216.4	-	-	4,603.6	4,820.1	5,389.9	5,256.5	5,810.3	6,036.5
2000	1,099.2	1,084.7	-	-	4,286.7	4,874.7	5,897.1	6,172.2	5,385.9	5,959.4
2001	1,077.2	1,105.5	-	-	4,150.9	4,216.4	5,151.9	5,109.4	5,228.1	5,321.9
2002	1,155.6	1,172.3	-	-	3,882.7	4,065.4	5,453.7	5,239.2	5,038.3	5,237.7
2003	1,275.4	1,246.2	-	-	4,643.4	4,962.0	4,763.5	4,846.4	5,918.7	6,208.2
2004	1,186.4	1,272.8	-	-	5,351.5	4,927.3	5,203.3	5,079.3	6,537.9	6,200.1
2005	1,060.4	1,106.7	-	-	3,457.9	3,528.6	4,822.1	4,926.2	4,518.3	4,635.3
2006	1,211.6	1,202.4	-	-	4,143.5	4,490.7	4,888.6	4,762.1	5,355.1	5,693.1
2007		1,212.5	-			4,554.1		5,006.7		5,766.6
2008		1,213.2	-			4,596.8		4,979.7		5,810.0
2009		1,225.4	-			4,680.7		5,056.7		5,906.1
2010		1,226.0	-			4,749.4		5,117.8		5,975.4
2011		1,228.5	-			4,809.7		5,174.6		6,038.1
2012		1,234.4	-			4,861.3		5,222.1		6,095.7
2013		1,235.6	-			4,914.9		5,279.3		6,150.5
2014		1,240.1	-			4,974.4		5,337.6		6,214.5
2015		1,243.6	-			5,027.8		5,383.8		6,271.4
2016		1,242.6	-			5,075.9		5,432.4		6,318.5
2017		1,243.6	-			5,119.0		5,468.5		6,362.6
2018		1,240.1	-			5,153.8		5,503.5		6,393.9
2019		1,243.6	-			5,198.4		5,553.0		6,442.0
2020		1,245.9	-			5,242.7		5,589.6		6,488.5
2021		1,248.7	-			5,268.3		5,615.5		6,517.0
2022		1,251.3	-			5,289.7		5,631.0		6,541.0
2023		1,253.4	-			5,311.4		5,653.4		6,564.8
2024		1,260.3	-			5,343.0		5,693.8		6,603.4
2025		1,269.3	-			5,382.6		5,807.3		6,652.0
2026		1,291.5	-			5,490.4		5,838.2		6,781.9
2027		1,300.0	-			5,522.0		5,873.0		6,822.0
2028		1,310.3	-			5,560.6		5,912.6		6,870.9
2029		1,322.1	-			5,600.6		5,949.1		6,922.7
2030		1,330.6	-			5,625.6		5,972.8		6,956.2
	3.7%	3.2%	#DIV/0!	#DIV/0!	1.8%	2.2%	2.7%	2.4%	2.2%	2.4%
		0.4%		#DIV/0!		1.4%		0.7%		1.2%
		0.3%		#DIV/0!		1.1%		1.0%		1.0%
		0.0%		#DIV/0!		0.8%		0.8%		0.7%
		0.4%		#DIV/0!		0.5%		0.8%		0.5%
		0.9%		#DIV/0!		0.9%		0.6%		0.9%
		0.4%		#DIV/0!		0.9%		0.8%		0.8%



Plot I-33 Missouri & Kansas Manufacturing Other KW Peak Demand Per Customer By End-Use

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	10.3	11.1	-	-	26.1	26.7	16.0	16.4	36.4	37.8	7.3	7.3	-	-	24.3	24.9	16.4	16.6	31.5	32.2
1991	13.4	13.6	-	-	24.9	25.5	28.1	29.6	38.3	39.1	9.2	8.7	-	-	21.1	21.8	23.5	24.7	30.3	30.4
1992	10.3	11.6	-	-	22.1	16.9	27.2	29.0	32.4	28.5	6.1	7.3	-	-	18.3	14.2	23.5	25.5	24.4	21.5
1993	10.9	11.4	-	-	29.0	29.7	41.1	44.9	39.8	41.1	7.5	7.4	-	-	21.6	22.5	24.7	26.8	29.2	29.9
1994	11.9	13.5	-	-	25.9	31.3	29.5	29.5	37.8	44.8	8.2	8.4	-	-	22.4	27.3	24.6	25.2	30.5	35.8
1995	14.5	15.1	-	-	26.0	25.0	26.3	28.4	40.5	40.1	9.9	9.8	-	-	23.3	22.5	24.6	26.3	33.3	32.4
1996	14.2	15.0	-	-	28.4	24.5	25.0	26.8	42.6	39.5	10.3	10.8	-	-	26.6	22.7	27.9	29.3	36.8	33.5
1997	14.5	15.4	-	-	27.5	26.4	28.1	27.5	42.0	41.8	10.1	10.2	-	-	24.2	23.2	26.6	26.6	34.3	33.5
1998	11.8	12.5	-	-	28.7	28.8	28.5	27.6	40.4	41.4	8.0	8.1	-	-	24.9	25.2	28.8	27.6	32.9	33.3
1999	15.3	15.4	-	-	25.4	26.5	31.2	29.7	40.6	42.0	12.4	11.7	-	-	23.5	24.7	28.2	27.6	36.0	36.4
2000	12.1	12.0	-	-	26.8	30.4	27.9	29.2	38.9	42.4	8.9	7.9	-	-	24.9	28.6	28.1	29.5	33.8	36.5
2001	11.4	11.8	-	-	30.4	30.3	32.6	31.4	41.8	42.1	8.3	8.1	-	-	28.6	28.8	33.0	32.8	36.9	36.9
2002	14.7	14.9	-	-	25.5	27.1	29.4	28.1	40.3	42.0	10.9	10.2	-	-	26.0	27.8	32.1	31.4	37.0	38.0
2003	12.5	12.1	-	-	26.8	29.4	30.2	29.1	39.3	41.4	9.2	8.0	-	-	27.9	30.9	33.3	33.0	37.1	38.9
2004	14.0	15.6	-	-	35.0	30.6	29.3	28.4	49.0	46.2	9.5	10.5	-	-	36.5	32.3	34.6	33.5	46.0	42.8
2005	12.7	13.0	-	-	16.7	17.7	31.9	33.5	29.4	30.7	10.9	11.0	-	-	20.8	21.1	36.7	36.7	31.7	32.1
2006	16.7	16.2	-	-	30.0	34.0	34.3	33.6	46.7	50.1	11.5	10.7	-	-	31.8	34.0	36.8	35.3	43.2	44.7
2007		16.0	-	-		34.6		33.7		50.6		10.4	-	-		34.5		34.4		44.9
2008		16.1	-	-		34.6		33.4		50.7		10.4	-	-		34.9		34.5		45.4
2009		16.1	-	-		34.7		33.6		50.8		10.4	-	-		35.4		34.9		45.8
2010		16.0	-	-		34.9		33.7		50.8		10.3	-	-		35.9		35.4		46.2
2011		15.9	-	-		35.1		33.9		50.9		10.3	-	-		36.3		35.8		46.6
2012		15.8	-	-		35.2		34.0		51.0		10.2	-	-		36.8		36.2		47.0
2013		15.7	-	-		35.4		34.2		51.1		10.2	-	-		37.3		36.7		47.5
2014		15.7	-	-		35.6		34.5		51.3		10.1	-	-		37.8		37.1		47.9
2015		15.6	-	-		35.8		34.6		51.4		10.1	-	-		38.3		37.6		48.3
2016		15.5	-	-		36.0		34.8		51.5		10.0	-	-		38.8		38.1		48.8
2017		15.4	-	-		36.2		34.9		51.6		9.9	-	-		39.3		38.5		49.2
2018		15.3	-	-		36.3		35.1		51.6		9.9	-	-		39.8		39.0		49.7
2019		15.3	-	-		36.5		35.3		51.7		9.8	-	-		40.3		39.5		50.1
2020		15.2	-	-		36.7		35.4		51.9		9.8	-	-		40.9		40.0		50.6
2021		15.2	-	-		36.7		35.4		51.9		9.8	-	-		41.4		40.5		51.1
2022		15.1	-	-		36.7		35.4		51.9		9.7	-	-		41.9		41.0		51.6
2023		15.1	-	-		36.7		35.4		51.8		9.7	-	-		42.4		41.5		52.1
2024		15.1	-	-		36.8		35.6		51.9		9.7	-	-		43.0		42.0		52.7
2025		15.1	-	-		36.9		35.7		52.1		9.7	-	-		43.6		42.5		53.3
2026		15.2	-	-		37.0		35.7		52.2		9.7	-	-		44.1		43.1		53.9
2027		15.2	-	-		37.1		35.9		52.3		9.8	-	-		44.7		43.6		54.4
2028		15.2	-	-		37.3		36.0		52.5		9.8	-	-		45.3		44.2		55.0
2029		15.3	-	-		37.4		36.1		52.7		9.8	-	-		45.9		44.7		55.7
2030		15.3	-	-		37.5		36.1		52.8		9.8	-	-		46.4		45.2		56.3
90-'06	3.0%	2.4%	0.0%	0.0%	0.9%	1.5%	4.9%	4.6%	1.6%	1.8%	2.9%	2.4%	0.0%	0.0%	1.7%	2.0%	5.2%	4.8%	2.0%	2.1%
07-'10		-0.1%		0.0%		0.3%		0.0%		0.2%		-0.2%		0.0%		1.3%		0.9%		1.0%
10-'15		-0.5%		0.0%		0.5%		0.5%		0.2%		-0.6%		0.0%		1.3%		1.2%		0.9%
15-'20		-0.5%		0.0%		0.4%		0.4%		0.2%		-0.5%		0.0%		1.3%		1.2%		0.9%
20-'25		-0.1%		0.0%		0.2%		0.2%		0.1%		-0.1%		0.0%		1.3%		1.2%		1.0%
25-'30		0.3%		0.0%		0.3%		0.3%		0.3%		0.2%		0.0%		1.3%		1.3%		1.1%
07-'30		-0.2%		0.0%		0.4%		0.3%		0.2%		-0.2%		0.0%		1.3%		1.2%		1.0%

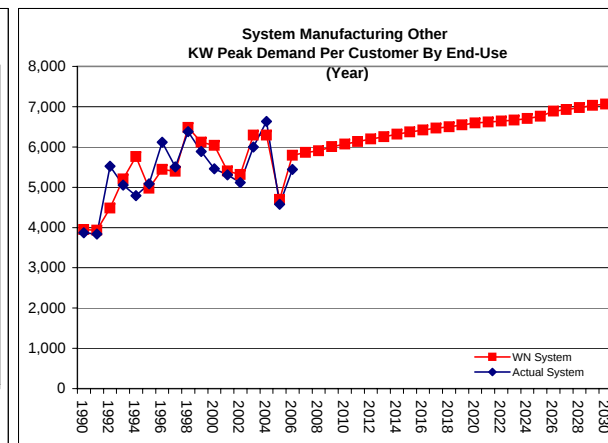
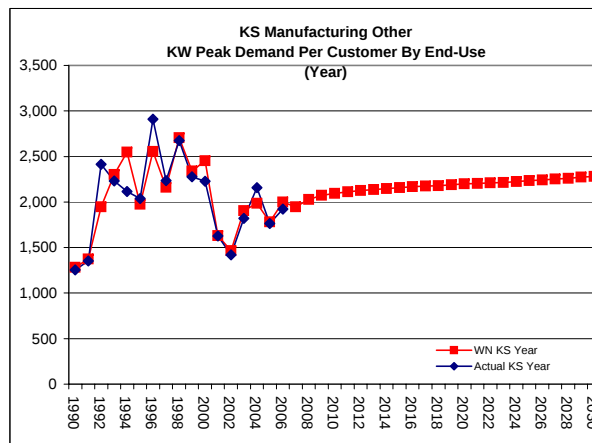
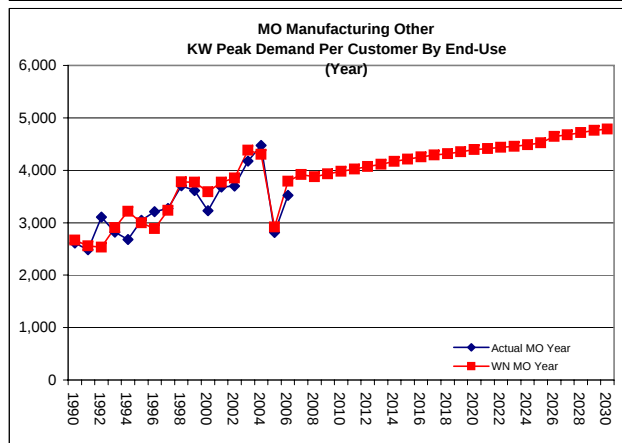
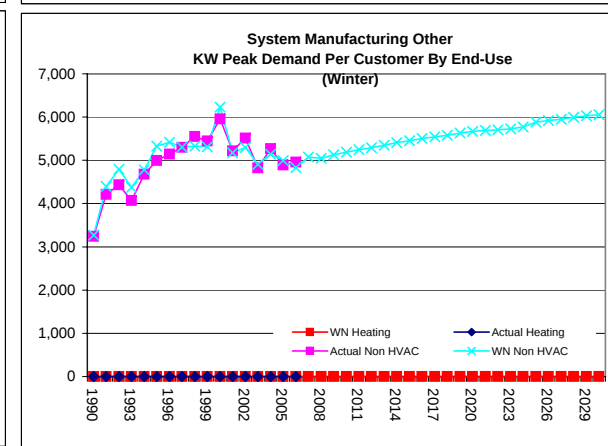
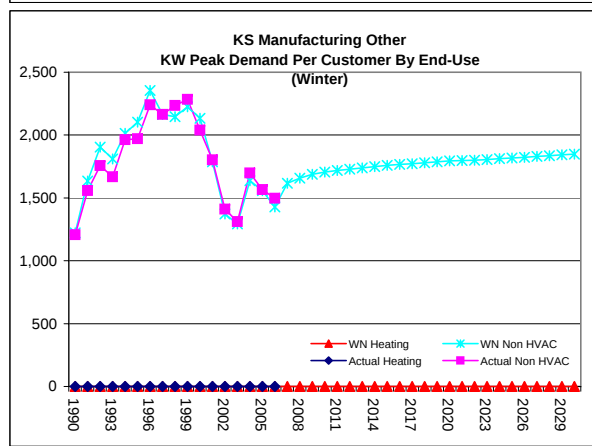
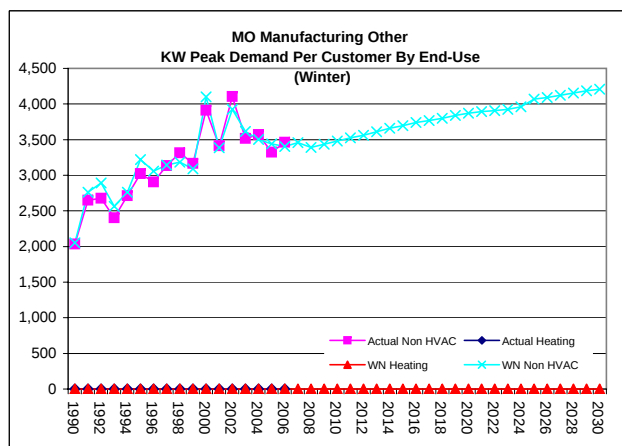
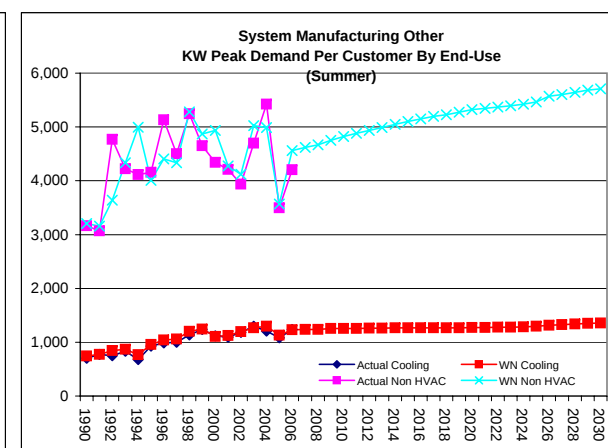
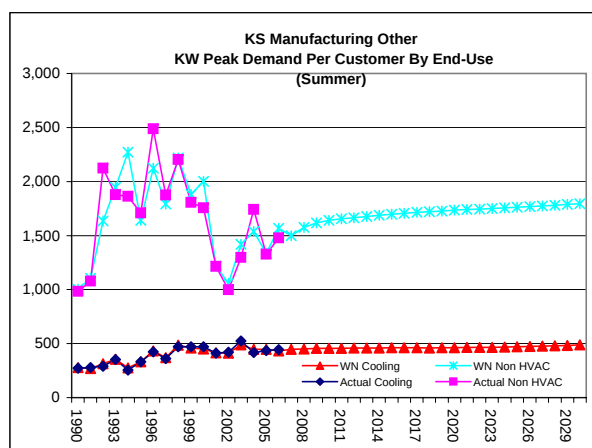
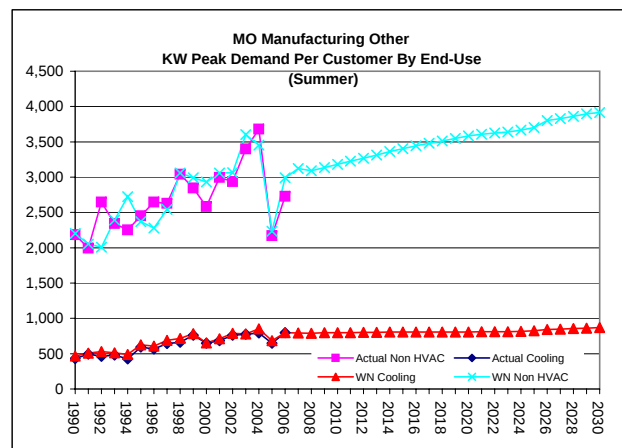
Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	17.6	18.4	-	-	50.4	51.6	32.4	33.0	68.0	70.0
1991	22.7	22.3	-	-	46.0	47.2	51.6	54.3	68.7	69.5
1992	16.3	18.9	-	-	40.5	31.1	50.7	54.5	56.8	50.0
1993	18.4	18.8	-	-	50.6	52.2	65.8	71.7	69.0	71.0
1994	20.1	22.0	-	-	48.3	58.6	54.1	54.7	68.4	80.5
1995	24.5	24.9	-	-	49.3	47.5	51.0	54.7	73.7	72.5
1996	24.5	25.8	-	-	55.0	47.2	52.9	56.1	79.5	73.0
1997	24.5	25.6	-	-	51.7	49.7	54.7	54.1	76.2	75.3
1998	19.8	20.6	-	-	53.6	54.0	57.3	55.2	73.4	74.6
1999	27.7	27.1	-	-	48.9	51.3	59.5	57.3	76.6	78.4
2000	21.0	19.9	-	-	51.7	59.0	56.0	58.7	72.7	78.9
2001	19.7	19.9	-	-	59.0	59.1	65.6	64.2	78.6	79.1
2002	25.6	25.2	-	-	51.6	54.8	61.5	59.5	77.2	80.0
2003	21.7	20.1	-	-	54.7	60.2	63.4	62.0	76.4	80.3
2004	23.5	26.1	-	-	71.5	62.9	63.9	61.9	94.9	89.0
2005	23.6	24.0	-	-	37.6	38.8	68.6	70.2	61.2	62.8
2006	28.1	26.8	-	-	61.7	67.9	71.2	68.9	89.9	94.8
2007		26.4		-		69.0		68.2		95.4
2008		26.5		-		69.5		67.9		96.0
2009		26.5		-		70.1		68.5		96.6
2010		26.3		-		70.8		69.1		97.0
2011		26.1		-		71.4		69.6		97.5
2012		26.0		-		72.0		70.2		98.0
2013		25.9		-		72.7		70.9		98.6
2014		25.8		-		73.4		71.6		99.2
2015		25.6		-		74.1		72.2		99.7
2016		25.5		-		74.8		72.9		100.3
2017		25.3		-		75.5		73.5		100.8
2018		25.2		-		76.1		74.1		101.3
2019		25.1		-		76.8		74.7		101.9
2020		25.0		-		77.5		75.4		102.5
2021		24.9		-		78.1		75.9		103.0
2022		24.9		-		78.6		76.4		103.5
2023		24.8		-		79.2		76.9		104.0
2024		24.8		-		79.8		77.6		104.6
2025		24.9		-		80.5		78.2		105.4
2026		24.9		-		81.2		78.8		106.1
2027		24.9		-		81.8		79.4		106.8
2028		25.0		-		82.5		80.1		107.6
2029		25.1		-		83.3		80.8		108.4
2030		25.2		-		83.9		81.4		109.1
	3.0%	2.4%	#DIV/0!	#DIV/0!	1.3%	1.7%	5.0%	4.7%	1.8%	1.9%
		-0.1%		#DIV/0!		0.8%		0.4%		0.6%
		-0.5%		#DIV/0!		0.9%		0.9%		0.6%
		-0.5%		#DIV/0!		0.9%		0.9%		0.5%
		-0.1%		#DIV/0!		0.8%		0.7%		0.6%
		0.2%		#DIV/0!		0.8%		0.8%		0.7%
		-0.2%		#DIV/0!		0.9%		0.8%		0.6%



Plot I-34 Missouri & Kansas Manufacturing KW Peak Demand Per Customer By End-Use

	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
Year	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	428.8	466.1	-	-	2,182.6	2,203.5	2,034.4	2,051.4	2,611.5	2,669.7	271.1	278.7	-	-	982.8	1,002.9	1,207.7	1,222.5	1,253.8	1,281.6
1991	493.4	506.6	-	-	1,992.1	2,052.2	2,651.0	2,761.6	2,485.6	2,558.8	277.3	269.2	-	-	1,076.5	1,105.9	1,556.9	1,633.2	1,353.8	1,375.1
1992	460.1	528.1	-	-	2,646.3	2,005.9	2,678.7	2,890.9	3,106.5	2,534.0	289.1	314.7	-	-	2,124.1	1,633.6	1,757.0	1,903.3	2,413.2	1,948.3
1993	481.1	514.2	-	-	2,341.6	2,391.1	2,403.5	2,563.4	2,822.7	2,905.3	351.1	354.7	-	-	1,878.7	1,945.3	1,667.4	1,809.2	2,229.8	2,300.0
1994	425.4	490.4	-	-	2,251.1	2,723.3	2,712.3	2,763.4	2,676.6	3,213.8	254.0	276.4	-	-	1,863.1	2,271.2	1,962.6	2,014.6	2,117.1	2,547.6
1995	593.1	626.2	-	-	2,451.3	2,369.5	3,023.1	3,221.7	3,044.4	2,995.7	332.0	333.0	-	-	1,707.3	1,640.9	1,970.0	2,103.1	2,039.3	1,973.9
1996	564.7	607.3	-	-	2,644.5	2,280.2	2,905.0	3,058.5	3,209.3	2,887.5	422.8	432.2	-	-	2,487.6	2,123.9	2,239.3	2,355.2	2,910.5	2,556.1
1997	641.4	690.7	-	-	2,627.4	2,544.0	3,136.8	3,143.8	3,268.8	3,234.6	359.9	369.3	-	-	1,873.4	1,793.1	2,164.1	2,164.8	2,233.3	2,162.4
1998	663.7	717.0	-	-	3,039.8	3,059.4	3,316.1	3,185.3	3,703.4	3,776.4	472.3	486.0	-	-	2,203.6	2,219.6	2,236.4	2,145.3	2,675.9	2,705.7
1999	763.1	784.2	-	-	2,847.5	2,989.9	3,167.0	3,088.9	3,610.6	3,774.2	471.3	459.3	-	-	1,805.1	1,881.4	2,282.4	2,224.9	2,276.3	2,340.7
2000	649.0	653.4	-	-	2,581.5	2,932.9	3,913.5	4,098.2	3,230.5	3,586.3	471.2	451.2	-	-	1,756.9	2,000.7	2,039.6	2,132.6	2,228.1	2,452.0
2001	684.8	711.8	-	-	2,994.8	3,058.6	3,415.1	3,386.5	3,679.6	3,770.4	412.1	413.6	-	-	1,215.0	1,216.9	1,802.5	1,787.1	1,627.1	1,630.5
2002	760.5	787.2	-	-	2,936.7	3,063.8	4,104.9	3,926.0	3,697.2	3,851.0	420.7	410.3	-	-	997.6	1,056.4	1,410.3	1,372.6	1,418.3	1,466.7
2003	773.5	779.1	-	-	3,400.1	3,603.0	3,515.6	3,615.8	4,173.6	4,382.1	523.6	487.2	-	-	1,298.0	1,419.2	1,311.4	1,292.6	1,821.6	1,906.3
2004	793.7	852.6	-	-	3,680.3	3,452.3	3,568.3	3,504.5	4,474.0	4,304.9	416.2	446.2	-	-	1,742.6	1,537.9	1,698.8	1,636.6	2,158.8	1,984.1
2005	647.4	684.0	-	-	2,168.8	2,232.6	3,324.5	3,438.6	2,816.2	2,916.6	436.6	446.6	-	-	1,326.6	1,334.8	1,566.2	1,557.8	1,763.2	1,781.4
2006	796.0	797.2	-	-	2,728.0	2,991.5	3,462.0	3,403.8	3,524.0	3,788.6	443.7	432.1	-	-	1,477.3	1,567.2	1,497.8	1,427.2	1,921.0	1,999.3
2007		792.6	-	-		3,123.7		3,458.7		3,916.3		446.3	-	-		1,499.4		1,616.2		1,945.7
2008		788.2	-	-		3,090.0		3,390.8		3,878.2		451.4	-	-		1,576.4		1,656.8		2,027.8
2009		796.2	-	-		3,134.1		3,436.4		3,930.4		455.7	-	-		1,616.7		1,688.8		2,072.4
2010		796.7	-	-		3,180.9		3,480.2		3,977.6		455.6	-	-		1,639.3		1,706.7		2,094.9
2011		798.2	-	-		3,226.0		3,524.9		4,024.2		456.4	-	-		1,655.1		1,719.3		2,111.4
2012		801.6	-	-		3,267.6		3,563.0		4,069.1		458.9	-	-		1,665.7		1,729.3		2,124.6
2013		802.7	-	-		3,311.2		3,610.9		4,113.8		458.8	-	-		1,676.4		1,739.3		2,135.2
2014		805.4	-	-		3,360.8		3,659.7		4,166.2		460.5	-	-		1,687.1		1,749.5		2,147.5
2015		807.1	-	-		3,404.9		3,698.0		4,212.1		462.1	-	-		1,696.9		1,758.0		2,159.0
2016		806.8	-	-		3,444.7		3,738.8		4,251.6		461.2	-	-		1,706.0		1,766.5		2,167.2
2017		807.0	-	-		3,481.3		3,769.5		4,288.2		462.0	-	-		1,713.2		1,772.5		2,175.2
2018		805.0	-	-		3,510.2		3,799.3		4,315.2		460.2	-	-		1,719.7		1,778.3		2,179.9
2019		806.8	-	-		3,547.4		3,840.9		4,354.2		461.9	-	-		1,727.9		1,786.8		2,189.7
2020		808.2	-	-		3,584.1		3,871.2		4,392.3		462.7	-	-		1,736.1		1,793.8		2,198.8
2021		810.1	-	-		3,605.5		3,893.3		4,415.7		463.5	-	-		1,740.8		1,798.1		2,204.4
2022		811.9	-	-		3,623.6		3,906.6		4,435.4		464.3	-	-		1,744.7		1,800.8		2,209.1
2023		813.0	-	-		3,641.0		3,925.3		4,454.0		465.2	-	-		1,749.5		1,805.0		2,214.7
2024		817.5	-	-		3,667.6		3,959.5		4,485.1		467.7	-	-		1,755.2		1,811.9		2,222.9
2025		823.1	-	-		3,700.6		4,067.3		4,523.7		471.1	-	-		1,762.6		1,818.1		2,233.7
2026		843.5	-	-		3,802.5		4,093.5		4,646.0		472.8	-	-		1,769.1		1,823.5		2,241.9
2027		848.7	-	-		3,829.1		4,122.8		4,677.8		476.3	-	-		1,774.7		1,829.6		2,251.0
2028		855.7	-	-		3,861.9		4,156.0		4,717.5		479.7	-	-		1,781.2		1,836.8		2,260.9
2029		863.3	-	-		3,895.2		4,186.9		4,758.5		484.0	-	-		1,788.6		1,843.0		2,272.6
2030		868.4	-	-		3,916.1		4,206.7		4,784.5		487.4	-	-		1,793.5		1,847.5		2,280.9
90-'06	3.9%	3.4%	0.0%	0.0%	1.4%	1.9%	3.4%	3.2%	1.9%	2.2%	3.1%	2.8%	0.0%	0.0%	2.6%	2.8%	1.4%	1.0%	2.7%	2.8%
07-'10		0.2%		0.0%		0.6%		0.2%		0.5%		0.7%		0.0%		3.0%		1.8%		2.5%
10-'15		0.3%		0.0%		1.4%		1.2%		1.2%		0.3%		0.0%		0.7%		0.6%		0.6%
15-'20		0.0%		0.0%		1.0%		0.9%		0.8%		0.0%		0.0%		0.5%		0.4%		0.4%
20-'25		0.4%		0.0%		0.6%		1.0%		0.6%		0.4%		0.0%		0.3%		0.3%		0.3%
25-'30		1.1%		0.0%		1.1%		0.7%		1.1%		0.7%		0.0%		0.3%		0.3%		0.4%
07-'30		0.4%		0.0%		1.0%		0.9%		0.9%		0.4%		0.0%		0.8%		0.6%		0.7%

Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	699.9	744.8	-	-	3,165.4	3,206.4	3,242.0	3,273.9	3,865.3	3,951.3
1991	770.7	775.8	-	-	3,068.7	3,158.1	4,207.9	4,394.9	3,839.4	3,933.9
1992	749.2	842.8	-	-	4,770.4	3,639.5	4,435.7	4,794.1	5,519.6	4,482.4
1993	832.2	868.9	-	-	4,220.3	4,336.4	4,070.9	4,372.6	5,052.5	5,205.3
1994	679.5	766.8	-	-	4,114.3	4,994.5	4,674.9	4,778.1	4,793.7	5,761.3
1995	925.1	959.1	-	-	4,158.6	4,010.4	4,993.1	5,324.9	5,083.7	4,969.6
1996	987.6	1,039.5	-	-	5,132.2	4,404.1	5,144.3	5,413.6	6,119.8	5,443.6
1997	1,001.3	1,059.9	-	-	4,500.8	4,337.1	5,300.9	5,308.6	5,502.1	5,397.0
1998	1,136.0	1,203.0	-	-	5,243.4	5,279.0	5,552.6	5,330.6	6,379.3	6,482.0
1999	1,234.4	1,243.5	-	-	4,652.5	4,871.4	5,449.4	5,313.8	5,886.9	6,114.8
2000	1,120.2	1,104.6	-	-	4,338.3	4,933.7	5,953.1	6,230.8	5,458.6	6,038.3
2001	1,096.9	1,125.5	-	-	4,209.8	4,275.5	5,217.5	5,173.6	5,306.7	5,401.0
2002	1,181.2	1,197.5	-	-	3,934.3	4,120.2	5,515.2	5,298.6	5,115.5	5,317.7
2003	1,297.0	1,266.2	-	-	4,698.1	5,022.2	4,827.0	4,908.5	5,995.1	6,288.5
2004	1,209.9	1,298.8	-	-	5,423.0	4,990.2	5,267.2	5,141.2	6,632.8	6,289.1
2005	1,084.0	1,130.6	-	-	3,495.4	3,567.4	4,890.7	4,996.4	4,579.4	4,698.1
2006	1,239.7	1,229.2	-	-	4,205.2	4,558.7	4,959.8	4,831.0	5,444.9	5,787.9
2007		1,238.9		-		4,623.1		5,074.9		5,862.0
2008		1,239.7		-		4,666.4		5,047.6		5,906.0
2009		1,251.9		-		4,750.8		5,125.2		6,002.8
2010		1,252.3		-		4,820.2		5,186.9		6,072.5
2011		1,254.6		-		4,881.1		5,244.2		6,135.7
2012		1,260.4		-		4,933.3		5,292.4		6,193.7
2013		1,261.5		-		4,987.6		5,350.2		6,249.1
2014		1,265.9		-		5,047.9		5,409.2		6,313.7
2015		1,269.2		-		5,101.9		5,456.0		6,371.1
2016		1,268.0		-		5,150.7		5,505.3		6,418.7
2017		1,268.9		-		5,194.5		5,542.0		6,463.4
2018		1,265.3		-		5,229.9		5,577.6		6,495.2
2019		1,268.7		-		5,275.2		5,627.7		6,543.9
2020		1,270.8		-		5,320.2		5,665.0		6,591.0
2021		1,273.6		-		5,346.4		5,691.4		6,620.0
2022		1,276.2		-		5,368.3		5,707.4		6,644.5
2023		1,278.2		-		5,390.5		5,730.3		6,668.7
2024		1,285.2		-		5,422.8		5,771.4		6,708.0
2025		1,294.2		-		5,463.1		5,885.5		6,757.3
2026		1,316.4		-		5,571.5		5,917.0		6,887.9
2027		1,324.9		-		5,603.8		5,952.4		6,928.8
2028		1,335.3		-		5,643.1		5,992.7		6,978.4
2029		1,347.2		-		5,683.9		6,029.9		7,031.1
2030		1,355.8		-		5,709.6		6,054.2		7,065.3
	3.6%	3.2%	#DIV/0!	#DIV/0!	1.8%	2.2%	2.7%	2.5%	2.2%	2.4%
		0.4%		#DIV/0!		1.4%		0.7%		1.2%
		0.3%		#DIV/0!		1.1%		1.0%		1.0%
		0.0%		#DIV/0!		0.8%		0.8%		0.7%
		0.4%		#DIV/0!		0.5%		0.8%		0.5%
		0.9%		#DIV/0!		0.9%		0.6%		0.9%
		0.4%		#DIV/0!		0.9%		0.8%		0.8%



Plot I-35 Missouri & Kansas KW Peak Demand Per Customer By End-Use
For classes that have end-use sales

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	736.2	756.5	19.6	31.5	2,822.9	2,875.8	2,747.4	2,768.2	3,559.0	3,632.2	942.1	802.7	442.5	224.7	1,633.1	1,763.0	1,891.1	1,988.5	2,575.1	2,565.7
1991	840.5	816.4	15.5	35.3	2,611.8	2,708.2	3,479.8	3,624.5	3,452.3	3,524.5	834.4	681.0	263.9	206.5	1,614.7	1,755.5	2,346.5	2,549.8	2,449.1	2,436.5
1992	803.7	871.7	9.6	25.6	3,481.2	2,665.3	3,527.9	3,801.5	4,284.9	3,537.0	867.2	793.0	174.3	170.5	2,739.7	2,174.4	2,643.1	2,986.2	3,606.9	2,967.4
1993	842.7	850.1	3.6	3.4	3,039.0	3,132.9	3,173.4	3,392.0	3,881.7	3,983.0	1,085.5	918.5	637.9	324.6	2,557.9	2,750.3	2,393.5	2,681.2	3,643.3	3,668.9
1994	757.8	823.2	15.5	25.3	2,958.7	3,605.4	3,562.8	3,626.6	3,716.4	4,428.6	750.8	688.4	291.7	153.8	2,462.5	3,090.4	2,790.9	2,975.7	3,213.3	3,778.8
1995	1,031.3	1,028.3	24.4	44.8	3,239.9	3,151.7	3,907.0	4,155.4	4,271.2	4,179.9	940.0	794.9	409.6	239.9	2,343.7	2,360.4	2,849.5	3,143.9	3,283.7	3,155.3
1996	995.1	1,009.8	25.4	43.4	3,526.1	3,058.2	3,768.6	3,957.5	4,521.2	4,068.0	990.7	872.0	528.3	285.1	3,173.9	2,814.0	3,289.4	3,580.8	4,164.6	3,686.1
1997	1,111.6	1,130.6	18.7	29.0	3,470.4	3,377.5	4,054.2	4,050.3	4,582.0	4,508.1	1,043.9	898.8	362.4	178.0	2,619.9	2,633.5	3,133.0	3,262.0	3,663.8	3,532.3
1998	1,113.9	1,139.7	24.2	46.4	3,860.7	3,912.2	4,301.2	4,120.0	4,974.6	5,051.9	1,226.0	1,071.3	435.6	266.9	2,925.7	3,053.9	3,309.1	3,286.0	4,151.8	4,125.2
1999	1,238.5	1,208.4	18.1	30.7	3,586.9	3,786.9	4,089.3	3,976.1	4,825.4	4,995.3	1,138.7	952.4	289.0	162.5	2,449.7	2,670.6	3,208.8	3,246.2	3,588.4	3,623.0
2000	1,082.3	1,032.0	39.0	46.4	3,227.7	3,695.6	4,719.8	4,932.5	4,310.0	4,727.6	1,277.6	1,034.0	677.2	239.9	2,408.1	2,854.0	2,952.2	3,191.5	3,685.7	3,888.0
2001	1,090.0	1,083.5	17.9	32.5	3,708.7	3,798.6	4,269.9	4,223.0	4,798.7	4,882.1	1,244.7	1,044.9	264.6	161.6	2,009.9	2,131.1	2,708.7	2,802.6	3,254.7	3,176.1
2002	1,213.5	1,192.6	15.6	34.7	3,617.9	3,811.1	4,993.8	4,781.9	4,831.3	5,003.7	1,140.9	943.6	240.0	186.1	1,699.3	1,926.8	2,509.4	2,585.1	2,840.2	2,870.3
2003	1,263.6	1,196.1	20.8	35.1	4,129.5	4,430.6	4,368.7	4,446.9	5,393.2	5,626.6	1,358.8	1,075.1	301.4	166.6	1,982.8	2,279.6	2,256.6	2,347.7	3,341.6	3,354.7
2004	1,171.8	1,313.7	25.5	58.2	4,642.2	4,085.6	4,511.2	4,267.2	5,814.0	5,399.3	1,071.2	977.7	394.9	254.0	2,593.9	2,416.2	2,723.8	2,733.9	3,665.1	3,393.9
2005	1,046.4	1,142.2	30.6	58.8	2,900.1	2,783.2	4,227.0	4,197.8	3,946.5	3,925.4	1,186.4	994.6	473.3	261.6	1,909.3	2,109.1	2,701.2	2,675.9	3,095.7	3,103.6
2006	1,371.2	1,289.7	31.6	67.6	3,260.7	3,647.1	4,194.6	4,188.4	4,631.9	4,936.9	1,174.2	1,010.0	307.5	267.5	2,400.3	2,544.0	2,739.7	2,601.6	3,574.5	3,554.0
2007		1,299.9		71.6		3,808.5		4,247.0		5,108.3		1,018.9		267.3		2,472.2		2,802.1		3,491.1
2008		1,302.6		74.6		3,783.7		4,181.4		5,086.3		1,040.5		270.6		2,577.1		2,855.7		3,617.6
2009		1,315.1		78.0		3,836.2		4,235.8		5,151.4		1,053.9		268.4		2,636.9		2,880.8		3,690.9
2010		1,315.4		81.1		3,892.4		4,289.4		5,207.8		1,043.7		269.9		2,656.0		2,921.1		3,699.7
2011		1,317.2		84.1		3,946.3		4,343.7		5,263.5		1,048.7		271.8		2,691.5		2,956.5		3,740.2
2012		1,322.8		87.1		3,996.8		4,391.5		5,319.7		1,044.2		268.5		2,698.1		2,960.7		3,742.3
2013		1,321.8		90.2		4,045.5		4,450.6		5,367.2		1,049.3		271.1		2,730.0		2,995.6		3,779.3
2014		1,326.2		93.3		4,105.6		4,510.9		5,431.8		1,056.8		273.8		2,763.1		3,031.4		3,819.9
2015		1,329.0		96.2		4,158.9		4,557.3		5,487.9		1,050.1		269.3		2,769.0		3,031.3		3,819.1
2016		1,331.3		99.2		4,211.1		4,607.1		5,542.3		1,052.1		270.7		2,796.0		3,061.3		3,848.1
2017		1,331.2		101.9		4,255.0		4,644.3		5,586.2		1,056.5		271.9		2,821.2		3,085.4		3,877.7
2018		1,327.7		104.6		4,289.6		4,679.9		5,617.3		1,043.8		266.9		2,818.4		3,079.2		3,862.2
2019		1,329.9		107.6		4,333.6		4,730.4		5,663.4		1,049.5		269.2		2,843.4		3,109.1		3,892.9
2020		1,331.9		110.0		4,377.8		4,767.2		5,709.7		1,054.8		270.8		2,869.6		3,134.0		3,924.4
2021		1,334.4		112.4		4,402.6		4,793.1		5,737.0		1,047.3		267.1		2,862.0		3,123.5		3,909.3
2022		1,336.5		115.1		4,423.1		4,813.5		5,759.6		1,051.8		268.4		2,876.5		3,136.6		3,928.4
2023		1,337.6		117.5		4,443.1		4,835.7		5,780.7		1,056.2		270.5		2,892.0		3,154.6		3,948.1
2024		1,344.6		120.5		4,475.0		4,877.2		5,819.6		1,065.4		273.9		2,912.5		3,180.6		3,977.9
2025		1,353.7		123.3		4,514.5		4,991.5		5,868.2		1,063.8		271.3		2,911.9		3,175.9		3,975.8
2026		1,379.8		126.1		4,627.1		5,023.6		6,006.9		1,071.9		274.3		2,933.9		3,198.2		4,005.7
2027		1,388.2		129.6		4,659.2		5,064.5		6,047.4		1,082.5		277.6		2,954.6		3,221.5		4,037.1
2028		1,399.3		132.7		4,698.1		5,104.9		6,097.4		1,094.3		281.5		2,977.2		3,247.8		4,071.5
2029		1,414.4		135.5		4,742.7		5,141.9		6,157.1		1,094.4		279.3		2,976.0		3,242.3		4,070.4
2030		1,422.5		139.1		4,767.3		5,171.2		6,189.8		1,104.7		282.4		2,993.4		3,260.7		4,098.1
90-'06	4.0%	3.4%	3.0%	4.9%	0.9%	1.5%	2.7%	2.6%	1.7%	1.9%	1.4%	1.4%	-2.2%	1.1%	2.4%	2.3%	2.3%	1.7%	2.1%	2.1%
07-'10		0.4%		4.2%		0.7%		0.3%		0.6%		0.8%		0.3%		2.4%		1.4%		2.0%
10-'15		0.2%		3.5%		1.3%		1.2%		1.1%		0.1%		0.0%		0.8%		0.7%		0.6%
15-'20		0.0%		2.7%		1.0%		0.9%		0.8%		0.1%		0.1%		0.7%		0.7%		0.5%
20-'25		0.3%		2.3%		0.6%		0.9%		0.5%		0.2%		0.0%		0.3%		0.3%		0.3%
25-'30		1.0%		2.4%		1.1%		0.7%		1.1%		0.8%		0.8%		0.6%		0.5%		0.6%
07-'30		0.4%		2.9%		1.0%		0.9%		0.8%		0.4%		0.2%		0.8%		0.7%		0.7%

Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1990	1,678.2	1,559.2	462.1	256.2	4,455.9	4,638.7	4,638.5	4,756.7	6,134.2	6,197.9
1991	1,674.9	1,497.4	279.5	241.9	4,226.5	4,463.7	5,826.3	6,174.2	5,901.4	5,961.0
1992	1,671.0	1,664.7	183.9	196.1	6,220.8	4,839.7	6,171.0	6,787.7	7,891.8	6,504.4
1993	1,928.2	1,768.6	641.5	328.0	5,596.9	5,883.2	5,566.9	6,073.2	7,525.1	7,651.8
1994	1,508.6	1,511.5	307.2	179.0	5,421.2	6,695.8	6,353.7	6,602.2	6,929.7	8,207.4
1995	1,971.3	1,823.2	434.0	284.7	5,583.6	5,512.1	6,756.5	7,299.4	7,554.9	7,335.3
1996	1,985.8	1,881.8	553.7	328.5	6,700.0	5,872.2	7,058.0	7,538.3	8,685.8	7,754.0
1997	2,155.5	2,029.4	381.1	207.0	6,090.3	6,011.0	7,187.3	7,312.3	8,245.8	8,040.4
1998	2,340.0	2,211.0	459.8	313.3	6,786.4	6,966.1	7,610.4	7,406.0	9,126.4	9,177.1
1999	2,377.2	2,160.8	307.0	193.2	6,036.6	6,457.5	7,298.1	7,222.4	8,413.7	8,618.3
2000	2,360.0	2,066.0	716.2	286.4	5,635.7	6,549.6	7,672.0	8,124.1	7,995.7	8,615.5
2001	2,334.7	2,128.4	282.5	194.1	5,718.7	5,929.8	6,978.6	7,025.6	8,053.4	8,058.2
2002	2,354.4	2,136.2	255.6	220.8	5,317.2	5,737.9	7,503.2	7,367.0	7,671.6	7,874.1
2003	2,622.4	2,271.2	322.2	201.7	6,112.4	6,710.1	6,625.4	6,794.6	8,734.8	8,981.3
2004	2,243.0	2,291.4	420.5	312.2	7,236.0	6,501.8	7,235.0	7,001.1	9,479.1	8,793.3
2005	2,232.8	2,136.8	503.8	320.4	4,809.4	4,892.3	6,928.2	6,873.7	7,042.2	7,029.1
2006	2,545.4	2,299.7	339.1	335.1	5,661.0	6,191.2	6,934.3	6,790.0	8,206.4	8,490.9
2007		2,318.7		338.9		6,280.7		7,049.0		8,599.4
2008		2,343.0		345.2		6,360.8		7,037.2		8,703.9
2009		2,369.0		346.5		6,473.2		7,116.6		8,842.2
2010		2,359.2		351.0		6,548.4		7,210.5		8,907.6
2011		2,366.0		355.9		6,637.8		7,300.2		9,003.8
2012		2,367.0		355.5		6,695.0		7,352.2		9,062.0
2013		2,371.0		361.3		6,775.5		7,446.2		9,146.6
2014		2,383.0		367.1		6,868.7		7,542.3		9,251.7
2015		2,379.1		365.5		6,927.9		7,588.7		9,307.0
2016		2,383.4		369.9		7,007.1		7,668.4		9,390.4
2017		2,387.7		373.8		7,076.2		7,729.6		9,463.9
2018		2,371.6		371.5		7,108.0		7,759.1		9,479.5
2019		2,379.4		376.7		7,176.9		7,839.5		9,556.3
2020		2,386.7		380.8		7,247.3		7,901.2		9,634.0
2021		2,381.7		379.5		7,264.6		7,916.6		9,646.3
2022		2,388.3		383.6		7,299.6		7,950.2		9,688.0
2023		2,393.8		388.0		7,335.0		7,990.3		9,728.8
2024		2,410.0		394.4		7,387.5		8,057.8		9,797.5
2025		2,417.6		394.7		7,426.4		8,167.4		9,843.9
2026		2,451.7		400.4		7,561.0		8,221.8		10,012.7
2027		2,470.7		407.2		7,613.8		8,286.0		10,084.5
2028		2,493.5		414.2		7,675.3		8,352.7		10,168.8
2029		2,508.9		414.8		7,718.6		8,384.2		10,227.5
2030		2,527.2		421.5		7,760.7		8,431.9		10,287.9
	2.6%	2.5%	-1.9%	1.7%	1.5%	1.8%	2.5%	2.2%	1.8%	2.0%
		0.6%		1.2%		1.4%		0.8%		1.2%
		0.2%		0.8%		1.1%		1.0%		0.9%
		0.1%		0.8%		0.9%		0.8%		0.7%
		0.3%		0.7%		0.5%		0.7%		0.4%
		0.9%		1.3%		0.9%		0.6%		0.9%
		0.4%		1.0%		0.9%		0.8%		0.8%

