

Part 1 - Appendix K
GMOC Reports

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

(8)(D) For the net system load, the utility shall provide plots of energy usage and peak demand.

(8)(D)(1) The energy plots shall include the summer, non-summer and total energy usage for each calendar year.

(8)(D)(2) The peak demand plots shall include the summer and winter peak demands.

(8)(D)(3) The plots shall cover the historical data base period and the forecast period of at least twenty (20) years. This historical period shall include the base-case, low-case, and high-case forecasts.

(8)(D)(4) The utilit shall describe how the subjective probabilities assigned to each forecast were determined.

Forecast uncertainty is quantified through the use of alternative economic scenarios. Moody's Economy.com provided three economic scenarios termed Low, Base and High that represent a 95% confidence range around the base case for economic growth. These economic scenarios were each used to forecast load growth and these forecasts represent a 95% confidence interval around load growth based on the uncertainty due to economic growth.

Compliance: See Plots K-1 through K-12 for base-case KCP&L forecast reports designed to comply with section (8)(D) reporting requirements.

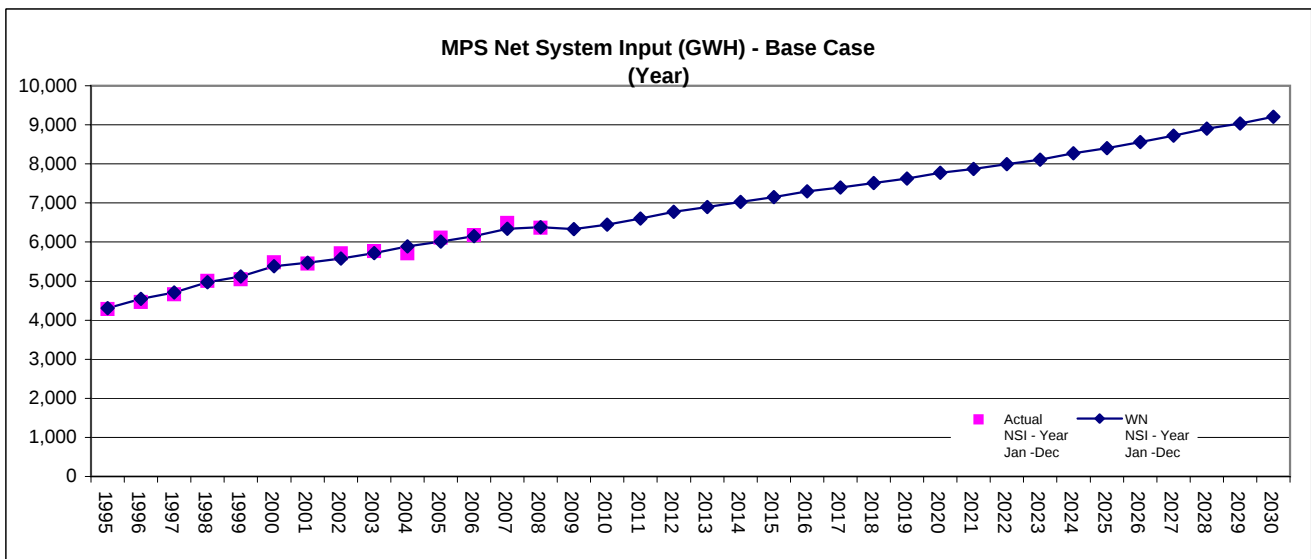
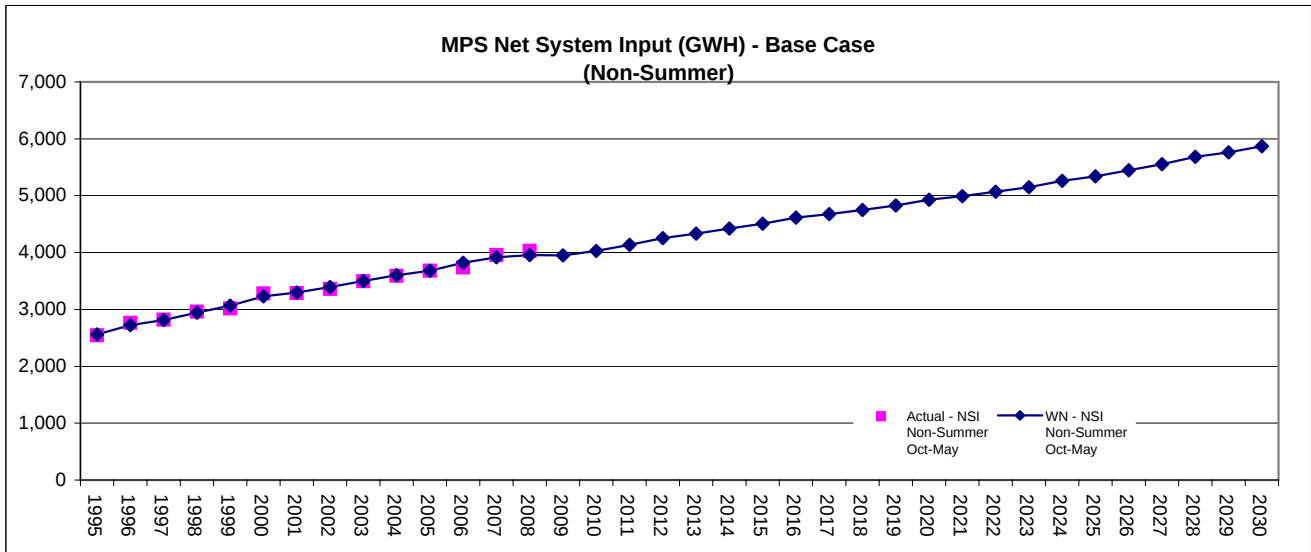
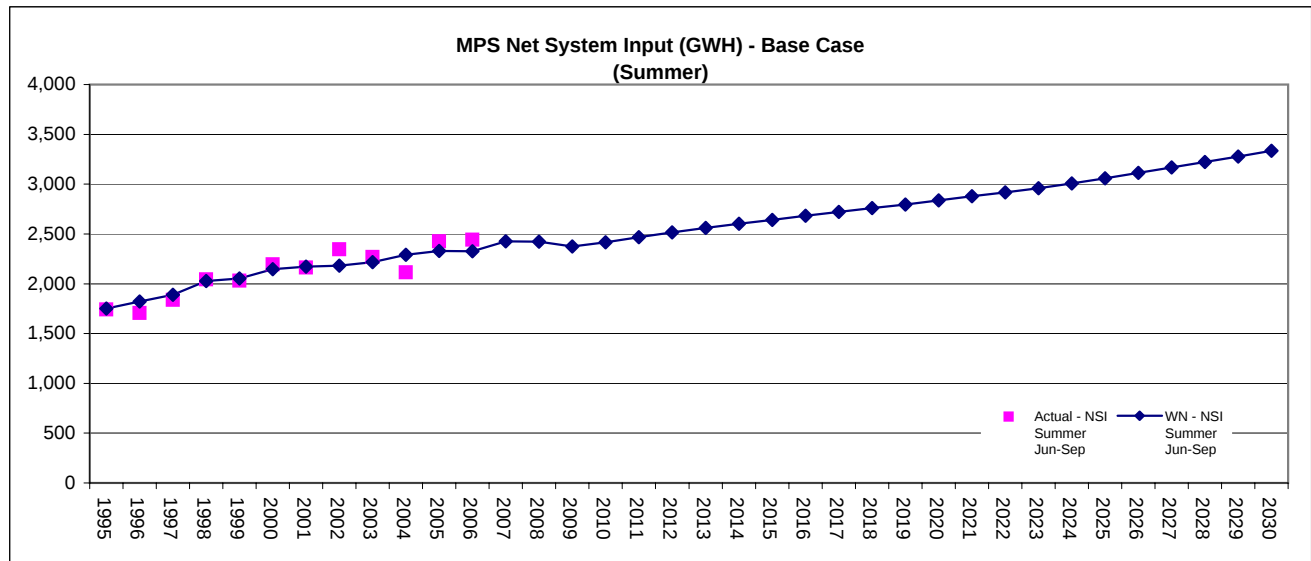
Linked Files:

IRP_8D_GMO_NSI_Peak.xls
MPS Base System_Datalyzer.xls
MPS Low System_Datalyzer.xls
MPS High System_Datalyzer.xls
StJoe Base System_Datalyzer.xls
StJoe Low System_Datalyzer.xls
StJoe High System_Datalyzer.xls

Plot K-1 Missouri Public Service Energy Forecast (GWH) - Base Case: Net System Input (NSI)
(Actual vs. Weather Normalized)

Year	Actual - NSI Summer Jun-Sep	WN - NSI Summer Jun-Sep	Actual - NSI Non-Summer Oct-May	WN - NSI Non-Summer Oct-May	Actual NSI - Year Jan -Dec	WN NSI - Year Jan -Dec
1990	-	-	-	-	-	-
1991	-	-	-	-	-	-
1992	-	-	-	-	-	-
1993	-	-	-	-	-	-
1994	-	-	-	-	-	-
1995	1,740.7	1,750.5	2,543.1	2,560.8	4,283.8	4,311.2
1996	1,705.8	1,823.3	2,760.2	2,725.3	4,466.0	4,548.5
1997	1,837.0	1,889.6	2,821.3	2,816.3	4,658.3	4,705.9
1998	2,045.0	2,026.2	2,959.3	2,945.5	5,004.2	4,971.6
1999	2,029.5	2,053.6	3,017.2	3,068.7	5,046.7	5,122.3
2000	2,195.1	2,146.1	3,282.2	3,231.2	5,477.4	5,377.4
2001	2,162.3	2,172.1	3,285.0	3,296.5	5,447.3	5,468.6
2002	2,345.7	2,181.2	3,362.1	3,395.3	5,707.8	5,576.5
2003	2,269.8	2,218.1	3,492.6	3,499.1	5,762.4	5,717.2
2004	2,114.9	2,290.2	3,592.6	3,600.9	5,707.4	5,891.2
2005	2,426.8	2,330.4	3,679.7	3,681.7	6,106.4	6,012.1
2006	2,440.7	2,325.1	3,733.9	3,822.6	6,174.6	6,147.7
2007	2,526.5	2,424.9	3,958.4	3,914.4	6,485.0	6,339.4
2008	2,334.8	2,422.5	4,027.7	3,956.5	6,362.5	6,378.9
2009		2,375.6		3,951.1		6,326.8
2010		2,414.6		4,029.6		6,444.3
2011		2,465.9		4,137.2		6,603.1
2012		2,514.9		4,255.6		6,770.5
2013		2,561.8		4,335.3		6,897.1
2014		2,601.8		4,421.6		7,023.4
2015		2,641.8		4,504.6		7,146.4
2016		2,684.2		4,613.3		7,297.5
2017		2,722.6		4,674.3		7,396.9
2018		2,758.7		4,748.8		7,507.5
2019		2,795.9		4,825.2		7,621.1
2020		2,837.7		4,931.1		7,768.8
2021		2,878.6		4,991.6		7,870.2
2022		2,918.4		5,071.0		7,989.4
2023		2,958.4		5,150.4		8,108.7
2024		3,005.8		5,263.9		8,269.6
2025		3,059.0		5,341.7		8,400.8
2026		3,114.6		5,447.9		8,562.5
2027		3,169.4		5,552.8		8,722.2
2028		3,222.6		5,680.7		8,903.3
2029		3,277.3		5,759.7		9,037.0
2030		3,334.0		5,869.7		9,203.7
95-'08	2.3%	2.5%	3.6%	3.4%	3.1%	3.1%
08-'10		-0.2%		0.9%		0.5%
10-'15		1.8%		2.3%		2.1%
15-'20		1.4%		1.8%		1.7%
20-'25		1.5%		1.6%		1.6%
25-'30		1.7%		1.9%		1.8%
08-'30		1.5%		1.8%		1.7%

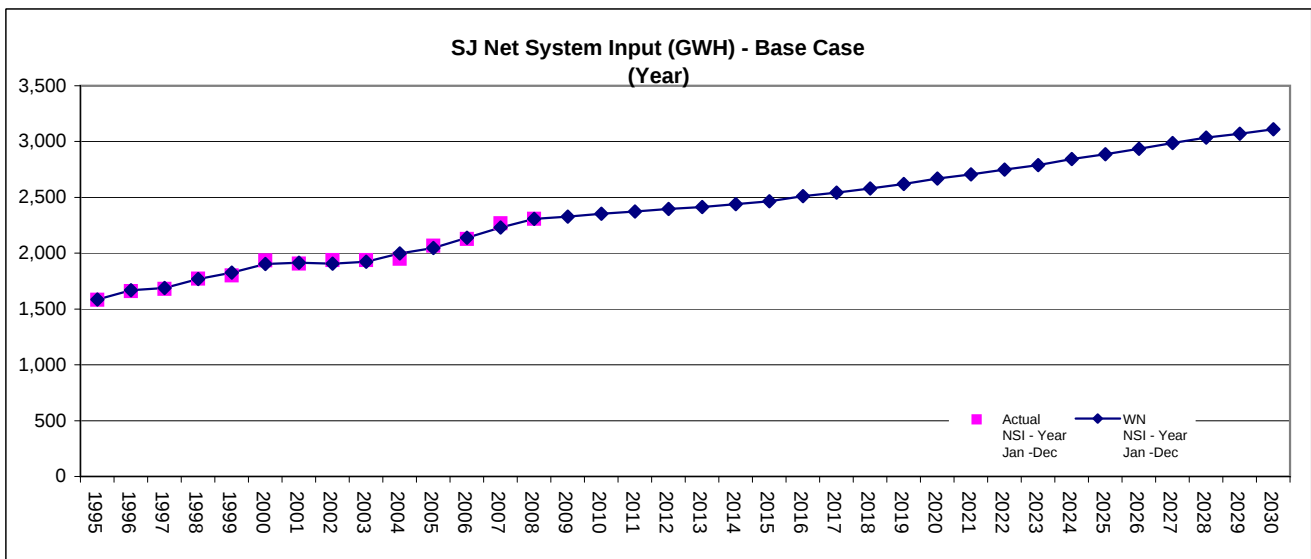
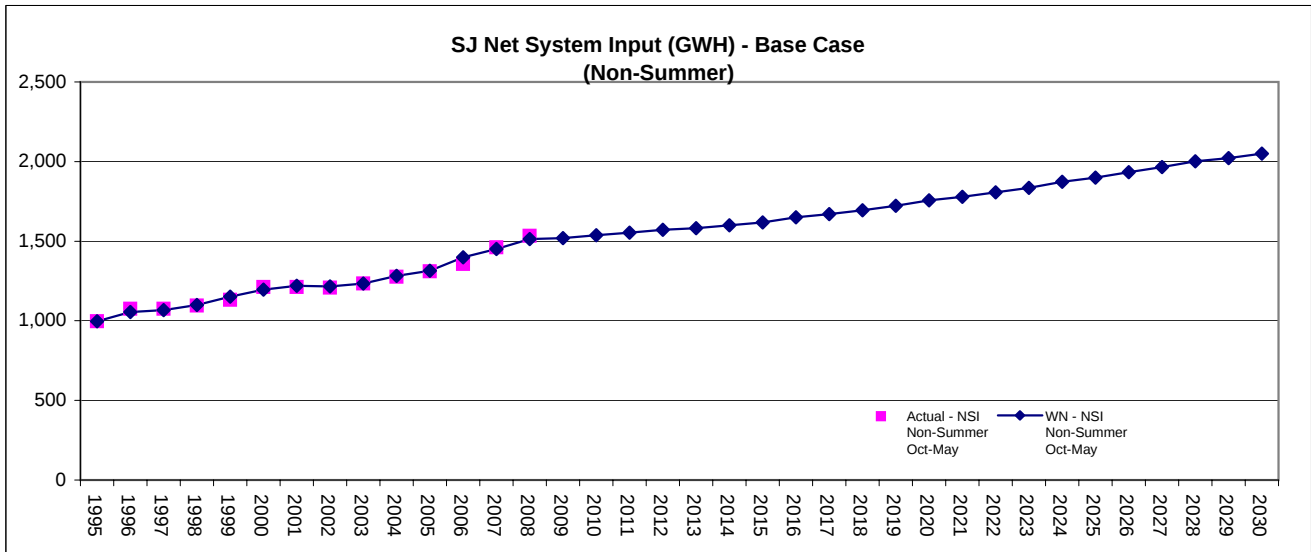
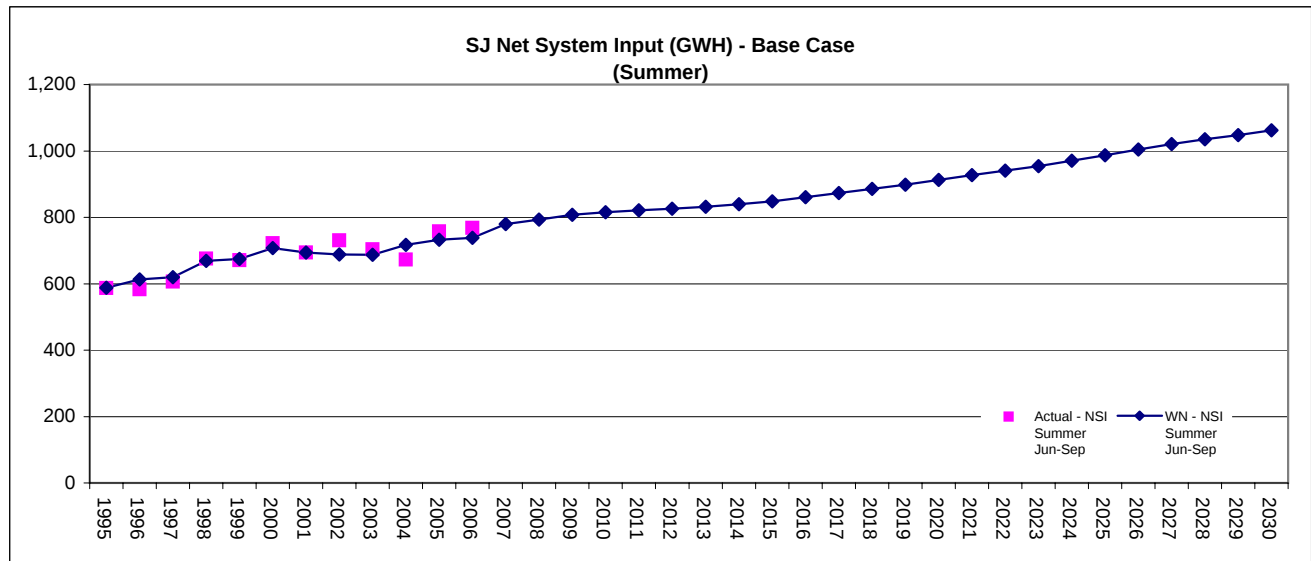
Note: Energy MWH (NSI) Includes annual system losses



Plot K-2 St. Joseph Energy Forecast (GWH) - Base Case: Net System Input (NSI)
(Actual vs. Weather Normalized)

Year	Actual - NSI Summer Jun-Sep	WN - NSI Summer Jun-Sep	Actual - NSI Non-Summer Oct-May	WN - NSI Non-Summer Oct-May	Actual NSI - Year Jan -Dec	WN NSI - Year Jan -Dec
1990	-	-	-	-	-	-
1991	-	-	-	-	-	-
1992	-	-	-	-	-	-
1993	-	-	-	-	-	-
1994	-	-	-	-	-	-
1995	586.8	587.8	996.3	997.0	1,583.1	1,584.8
1996	583.2	613.1	1,075.3	1,055.5	1,658.4	1,668.6
1997	606.1	620.1	1,074.6	1,068.1	1,680.7	1,688.2
1998	675.4	668.5	1,095.6	1,099.3	1,771.0	1,767.8
1999	670.8	674.7	1,130.6	1,151.2	1,801.4	1,825.9
2000	722.0	707.9	1,212.6	1,195.9	1,934.6	1,903.8
2001	694.2	693.7	1,212.5	1,220.1	1,906.7	1,913.8
2002	730.2	688.4	1,206.9	1,216.8	1,937.1	1,905.2
2003	703.6	687.5	1,233.4	1,234.7	1,937.1	1,922.2
2004	673.2	716.8	1,276.0	1,282.1	1,949.2	1,998.9
2005	757.1	732.8	1,309.9	1,314.9	2,067.0	2,047.7
2006	768.5	737.9	1,357.2	1,399.5	2,125.6	2,137.4
2007	804.8	779.3	1,461.9	1,451.4	2,266.7	2,230.8
2008	774.1	793.3	1,533.4	1,513.1	2,307.5	2,306.4
2009		807.7		1,519.4		2,327.1
2010		815.3		1,537.5		2,352.7
2011		821.3		1,553.5		2,374.8
2012		825.6		1,571.2		2,396.8
2013		832.2		1,581.8		2,414.1
2014		839.2		1,598.8		2,438.0
2015		848.2		1,618.0		2,466.2
2016		860.7		1,649.6		2,510.3
2017		873.0		1,669.5		2,542.6
2018		885.3		1,694.8		2,580.1
2019		898.8		1,722.1		2,620.9
2020		912.8		1,757.1		2,669.9
2021		926.9		1,779.1		2,706.0
2022		940.7		1,807.0		2,747.7
2023		954.6		1,834.9		2,789.5
2024		970.3		1,872.4		2,842.7
2025		987.1		1,898.8		2,885.9
2026		1,004.1		1,932.3		2,936.4
2027		1,020.7		1,965.4		2,986.0
2028		1,035.0		2,001.8		3,036.8
2029		1,048.2		2,020.8		3,069.0
2030		1,062.2		2,049.0		3,111.2
95-'08	2.2%	2.3%	3.4%	3.3%	2.9%	2.9%
08-'10		1.4%		0.8%		1.0%
10-'15		0.8%		1.0%		0.9%
15-'20		1.5%		1.7%		1.6%
20-'25		1.6%		1.6%		1.6%
25-'30		1.5%		1.5%		1.5%
08-'30		1.3%		1.4%		1.4%

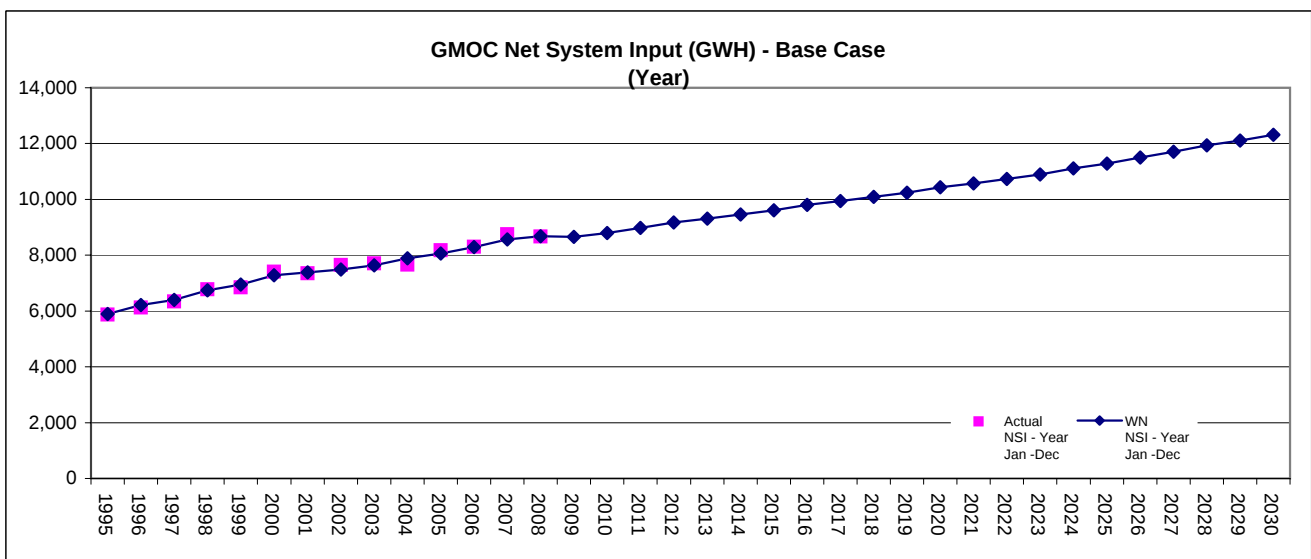
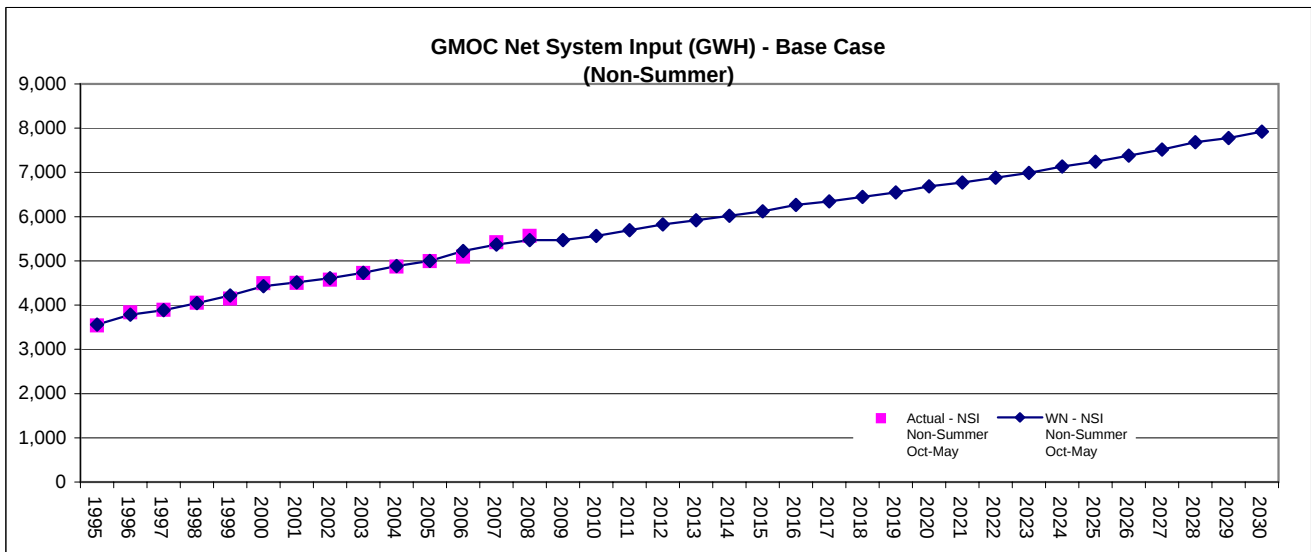
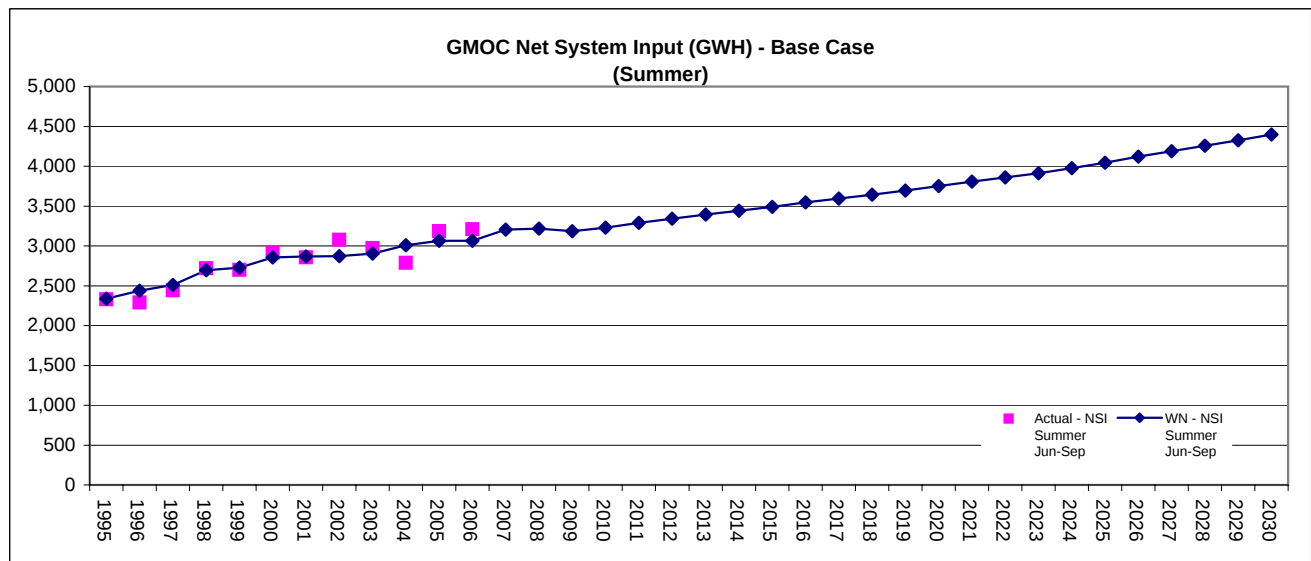
Note: Energy MWH (NSI) Includes annual system losses



**Plot K-3 Greater Missouri Operation Company (GMOC) Energy Forecast (GWH) - Base Case: Net System Input (NSI)
(Actual vs. Weather Normalized)**

Year	Actual - NSI Summer Jun-Sep	WN - NSI Summer Jun-Sep	Actual - NSI Non-Summer Oct-May	WN - NSI Non-Summer Oct-May	Actual NSI - Year Jan -Dec	WN NSI - Year Jan -Dec
1990	-	-	-	-	-	-
1991	-	-	-	-	-	-
1992	-	-	-	-	-	-
1993	-	-	-	-	-	-
1994	-	-	-	-	-	-
1995	2,327.5	2,338.2	3,539.4	3,557.8	5,866.9	5,896.1
1996	2,289.0	2,436.4	3,835.4	3,780.8	6,124.4	6,217.1
1997	2,443.0	2,509.7	3,895.9	3,884.4	6,338.9	6,394.1
1998	2,720.4	2,694.7	4,054.8	4,044.8	6,775.2	6,739.4
1999	2,700.3	2,728.3	4,147.7	4,220.0	6,848.0	6,948.3
2000	2,917.1	2,854.0	4,494.8	4,427.1	7,412.0	7,281.1
2001	2,856.5	2,865.8	4,497.5	4,516.6	7,354.0	7,382.4
2002	3,075.9	2,869.6	4,569.0	4,612.0	7,644.9	7,481.7
2003	2,973.5	2,905.6	4,726.1	4,733.8	7,699.5	7,639.4
2004	2,788.1	3,007.0	4,868.6	4,883.0	7,656.7	7,890.0
2005	3,183.9	3,063.2	4,989.6	4,996.6	8,173.5	8,059.8
2006	3,209.2	3,063.0	5,091.1	5,222.1	8,300.2	8,285.1
2007	3,331.3	3,204.2	5,420.3	5,365.9	8,751.6	8,570.1
2008	3,108.9	3,215.8	5,561.1	5,469.6	8,670.0	8,685.3
2009		3,183.4		5,470.5		8,653.9
2010		3,229.9		5,567.1		8,797.0
2011		3,287.2		5,690.7		8,977.9
2012		3,340.5		5,826.8		9,167.3
2013		3,394.0		5,917.1		9,311.2
2014		3,441.1		6,020.4		9,461.4
2015		3,490.0		6,122.6		9,612.6
2016		3,544.9		6,262.9		9,807.8
2017		3,595.6		6,343.8		9,939.4
2018		3,644.0		6,443.6		10,087.6
2019		3,694.6		6,547.3		10,241.9
2020		3,750.5		6,688.2		10,438.7
2021		3,805.5		6,770.7		10,576.2
2022		3,859.1		6,878.0		10,737.1
2023		3,913.0		6,985.3		10,898.3
2024		3,976.0		7,136.3		11,112.3
2025		4,046.2		7,240.5		11,286.7
2026		4,118.7		7,380.2		11,498.9
2027		4,190.1		7,518.1		11,708.3
2028		4,257.6		7,682.4		11,940.1
2029		4,325.5		7,780.5		12,106.0
2030		4,396.2		7,918.7		12,314.8
95-'08	2.3%	2.5%	3.5%	3.4%	3.0%	3.0%
08-'10		0.2%		0.9%		0.6%
10-'15		1.6%		1.9%		1.8%
15-'20		1.5%		1.8%		1.7%
20-'25		1.5%		1.6%		1.6%
25-'30		1.7%		1.8%		1.8%
08-'30		1.4%		1.7%		1.6%

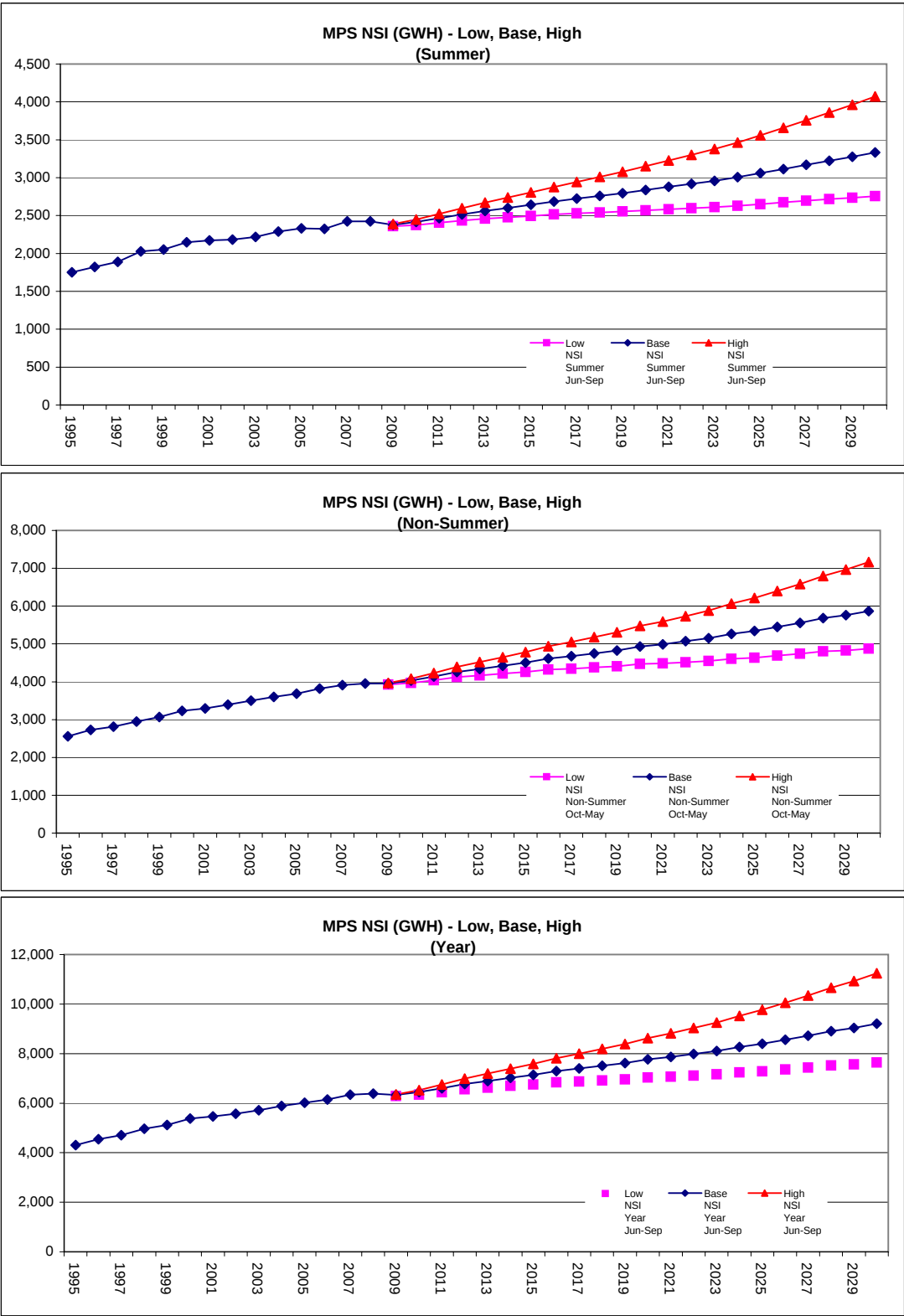
Note: Energy MWH (NSI) Includes annual system losses



Plot K-4 Missouri Public Service Energy Forecast (GWH): Net System Input (NSI)
(Low Case, Base Case, High Case)

Year	Low NSI Summer Jun-Sep	Base NSI Summer Jun-Sep	High NSI Summer Jun-Sep	Low NSI Non-Summer Oct-May	Base NSI Non-Summer Oct-May	High NSI Non-Summer Oct-May	Low NSI Year Jun-Sep	Base NSI Year Jun-Sep	High NSI Year Jun-Sep
1990		-			-			-	
1991		-			-			-	
1992		-			-			-	
1993		-			-			-	
1994		-			-			-	
1995		1,750.5			2,560.8			4,311.2	
1996		1,823.3			2,725.3			4,548.5	
1997		1,889.6			2,816.3			4,705.9	
1998		2,026.2			2,945.5			4,971.6	
1999		2,053.6			3,068.7			5,122.3	
2000		2,146.1			3,231.2			5,377.4	
2001		2,172.1			3,296.5			5,468.6	
2002		2,181.2			3,395.3			5,576.5	
2003		2,218.1			3,499.1			5,717.2	
2004		2,290.2			3,600.9			5,891.2	
2005		2,330.4			3,681.7			6,012.1	
2006		2,325.1			3,822.6			6,147.7	
2007		2,424.9			3,914.4			6,339.4	
2008		2,422.5			3,956.5			6,378.9	
2009	2,358.6	2,375.6	2,387.9	3,926.9	3,951.1	3,968.3	6,285.5	6,326.8	6,356.2
2010	2,375.0	2,414.6	2,446.8	3,967.2	4,029.6	4,080.6	6,342.2	6,444.3	6,527.4
2011	2,404.5	2,465.9	2,521.6	4,037.2	4,137.2	4,228.1	6,441.7	6,603.1	6,749.7
2012	2,434.7	2,514.9	2,598.4	4,122.1	4,255.6	4,394.3	6,556.7	6,770.5	6,992.7
2013	2,460.4	2,561.8	2,671.4	4,166.9	4,335.3	4,519.8	6,627.3	6,897.1	7,191.2
2014	2,477.9	2,601.8	2,737.1	4,214.8	4,421.6	4,651.1	6,692.7	7,023.4	7,388.2
2015	2,495.0	2,641.8	2,803.8	4,258.1	4,504.6	4,781.0	6,753.1	7,146.4	7,584.8
2016	2,513.6	2,684.2	2,874.7	4,324.2	4,613.3	4,940.7	6,837.8	7,297.5	7,815.4
2017	2,527.8	2,722.6	2,942.8	4,343.7	4,674.3	5,052.1	6,871.6	7,396.9	7,994.8
2018	2,539.8	2,758.7	3,008.9	4,375.7	4,748.8	5,179.6	6,915.5	7,507.5	8,188.5
2019	2,552.5	2,795.9	3,077.2	4,408.7	4,825.2	5,310.8	6,961.3	7,621.1	8,388.0
2020	2,569.0	2,837.7	3,151.9	4,467.8	4,931.1	5,476.5	7,036.8	7,768.8	8,628.3
2021	2,584.1	2,878.6	3,226.4	4,484.3	4,991.6	5,594.3	7,068.4	7,870.2	8,820.6
2022	2,597.5	2,918.4	3,300.8	4,517.0	5,071.0	5,734.9	7,114.5	7,989.4	9,035.7
2023	2,610.3	2,958.4	3,377.0	4,548.2	5,150.4	5,878.3	7,158.5	8,108.7	9,255.3
2024	2,628.6	3,005.8	3,463.4	4,608.7	5,263.9	6,063.7	7,237.3	8,269.6	9,527.1
2025	2,651.1	3,059.0	3,558.2	4,636.4	5,341.7	6,211.8	7,287.5	8,400.8	9,770.1
2026	2,674.7	3,114.6	3,657.5	4,687.9	5,447.9	6,395.7	7,362.6	8,562.5	10,053.2
2027	2,696.5	3,169.4	3,758.0	4,737.1	5,552.8	6,581.7	7,433.7	8,722.2	10,339.8
2028	2,716.0	3,222.6	3,858.5	4,804.8	5,680.7	6,798.6	7,520.8	8,903.3	10,657.1
2029	2,735.7	3,277.3	3,963.1	4,828.9	5,759.7	6,962.0	7,564.6	9,037.0	10,925.1
2030	2,756.1	3,334.0	4,072.1	4,878.1	5,869.7	7,166.2	7,634.2	9,203.7	11,238.3
95-'08	2.5%	2.5%	2.5%	3.4%	3.4%	3.4%	3.1%	3.1%	3.1%
08-'10	-1.0%	-0.2%	0.5%	0.1%	0.9%	1.6%	-0.3%	0.5%	1.2%
10-'15	1.0%	1.8%	2.8%	1.4%	2.3%	3.2%	1.3%	2.1%	3.0%
15-'20	0.6%	1.4%	2.4%	1.0%	1.8%	2.8%	0.8%	1.7%	2.6%
20-'25	0.6%	1.5%	2.5%	0.7%	1.6%	2.6%	0.7%	1.6%	2.5%
25-'30	0.8%	1.7%	2.7%	1.0%	1.9%	2.9%	0.9%	1.8%	2.8%
08-'30	0.6%	1.5%	2.4%	1.0%	1.8%	2.7%	0.8%	1.7%	2.6%

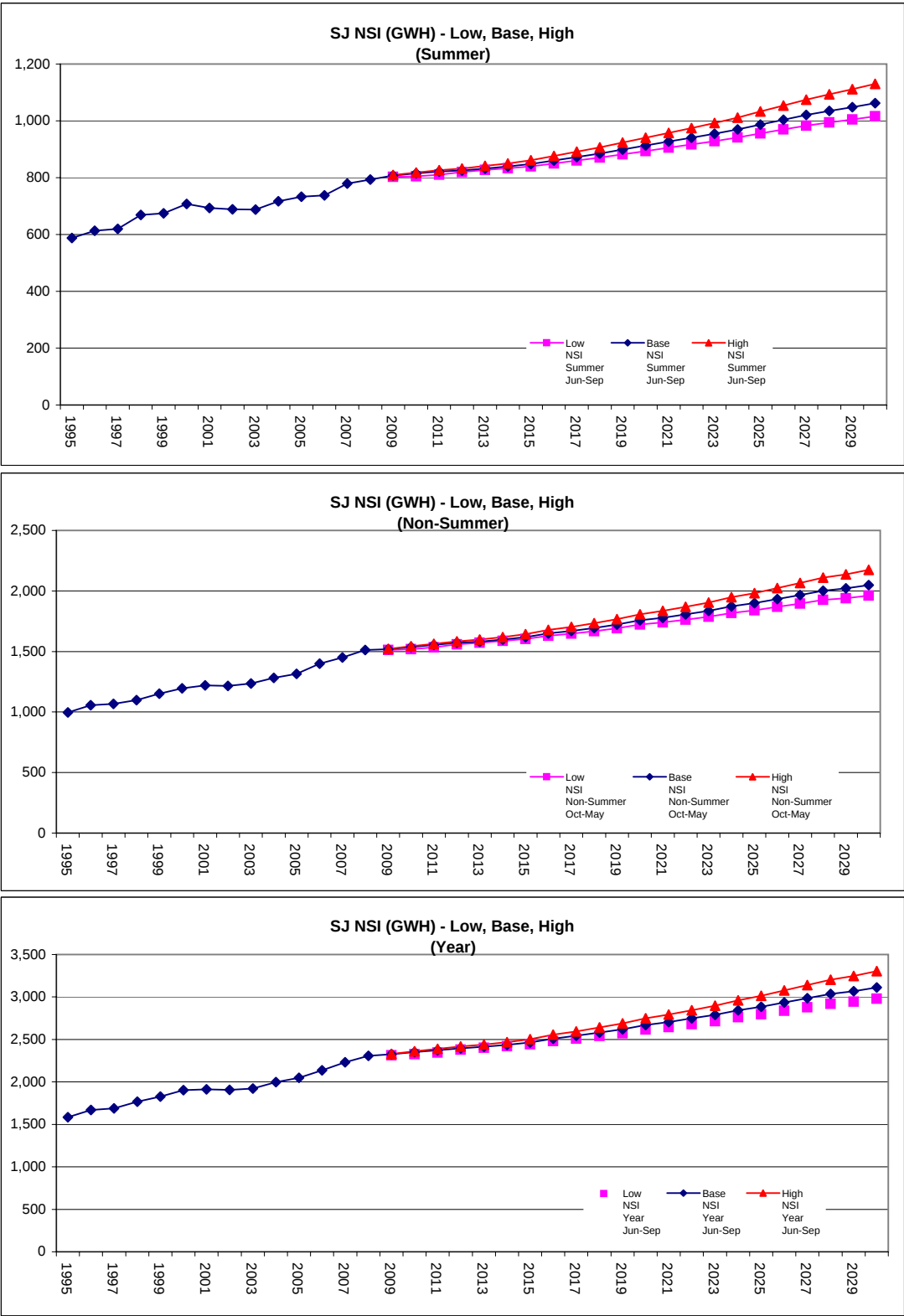
Note: Energy MWH (NSI) Includes annual system losses



Plot K-5 St. Joseph Energy Forecast (GWH): Net System Input (NSI)
(Low Case, Base Case, High Case)

Year	Low NSI Summer Jun-Sep	Base NSI Summer Jun-Sep	High NSI Summer Jun-Sep	Low NSI Non-Summer Oct-May	Base NSI Non-Summer Oct-May	High NSI Non-Summer Oct-May	Low NSI Year Jun-Sep	Base NSI Year Jun-Sep	High NSI Year Jun-Sep
1990		-			-			-	
1991		-			-			-	
1992		-			-			-	
1993		-			-			-	
1994		-			-			-	
1995		587.8			997.0			1,584.8	
1996		613.1			1,055.5			1,668.6	
1997		620.1			1,068.1			1,688.2	
1998		668.5			1,099.3			1,767.8	
1999		674.7			1,151.2			1,825.9	
2000		707.9			1,195.9			1,903.8	
2001		693.7			1,220.1			1,913.8	
2002		688.4			1,216.8			1,905.2	
2003		687.5			1,234.7			1,922.2	
2004		716.8			1,282.1			1,998.9	
2005		732.8			1,314.9			2,047.7	
2006		737.9			1,399.5			2,137.4	
2007		779.3			1,451.4			2,230.8	
2008		793.3			1,513.1			2,306.4	
2009	802.7	807.7	809.1	1,511.7	1,519.4	1,521.6	2,314.4	2,327.1	2,330.7
2010	804.6	815.3	818.4	1,520.0	1,537.5	1,542.7	2,324.6	2,352.7	2,361.1
2011	810.0	821.3	826.3	1,533.6	1,553.5	1,562.2	2,343.6	2,374.8	2,388.6
2012	820.1	825.6	832.5	1,559.7	1,571.2	1,583.6	2,379.7	2,396.8	2,416.1
2013	827.5	832.2	841.3	1,573.3	1,581.8	1,597.9	2,400.7	2,414.1	2,439.2
2014	832.7	839.2	850.5	1,587.3	1,598.8	1,618.9	2,420.0	2,438.0	2,469.3
2015	839.8	848.2	861.8	1,603.0	1,618.0	1,642.4	2,442.8	2,466.2	2,504.1
2016	850.2	860.7	876.8	1,630.8	1,649.6	1,678.8	2,481.0	2,510.3	2,555.6
2017	860.5	873.0	891.8	1,647.0	1,669.5	1,703.6	2,507.5	2,542.6	2,595.4
2018	870.7	885.3	906.9	1,668.4	1,694.8	1,734.1	2,539.1	2,580.1	2,641.0
2019	882.0	898.8	923.3	1,691.6	1,722.1	1,766.9	2,573.6	2,620.9	2,690.2
2020	893.8	912.8	940.4	1,722.3	1,757.1	1,807.9	2,616.1	2,669.9	2,748.3
2021	905.6	926.9	957.8	1,740.1	1,779.1	1,835.7	2,645.6	2,706.0	2,793.5
2022	917.0	940.7	974.9	1,763.4	1,807.0	1,869.8	2,680.4	2,747.7	2,844.8
2023	928.4	954.6	992.4	1,786.6	1,834.9	1,904.3	2,715.0	2,789.5	2,896.7
2024	941.4	970.3	1,011.8	1,818.9	1,872.4	1,949.1	2,760.3	2,842.7	2,960.9
2025	955.4	987.1	1,032.6	1,840.2	1,898.8	1,982.8	2,795.7	2,885.9	3,015.4
2026	969.5	1,004.1	1,053.8	1,868.2	1,932.3	2,024.1	2,837.8	2,936.4	3,077.9
2027	983.1	1,020.7	1,074.7	1,895.5	1,965.4	2,065.4	2,878.7	2,986.0	3,140.1
2028	994.5	1,035.0	1,093.4	1,926.0	2,001.8	2,110.5	2,920.5	3,036.8	3,203.9
2029	1,004.7	1,048.2	1,111.0	1,939.9	2,020.8	2,137.6	2,944.6	3,069.0	3,248.6
2030	1,015.7	1,062.2	1,129.8	1,962.5	2,049.0	2,174.6	2,978.2	3,111.2	3,304.4
95-'08	2.3%	2.3%	2.3%	3.3%	3.3%	3.3%	2.9%	2.9%	2.9%
08-'10	0.7%	1.4%	1.6%	0.2%	0.8%	1.0%	0.4%	1.0%	1.2%
10-'15	0.9%	0.8%	1.0%	1.1%	1.0%	1.3%	1.0%	0.9%	1.2%
15-'20	1.3%	1.5%	1.8%	1.4%	1.7%	1.9%	1.4%	1.6%	1.9%
20-'25	1.3%	1.6%	1.9%	1.3%	1.6%	1.9%	1.3%	1.6%	1.9%
25-'30	1.2%	1.5%	1.8%	1.3%	1.5%	1.9%	1.3%	1.5%	1.8%
08-'30	1.1%	1.3%	1.6%	1.2%	1.4%	1.7%	1.2%	1.4%	1.6%

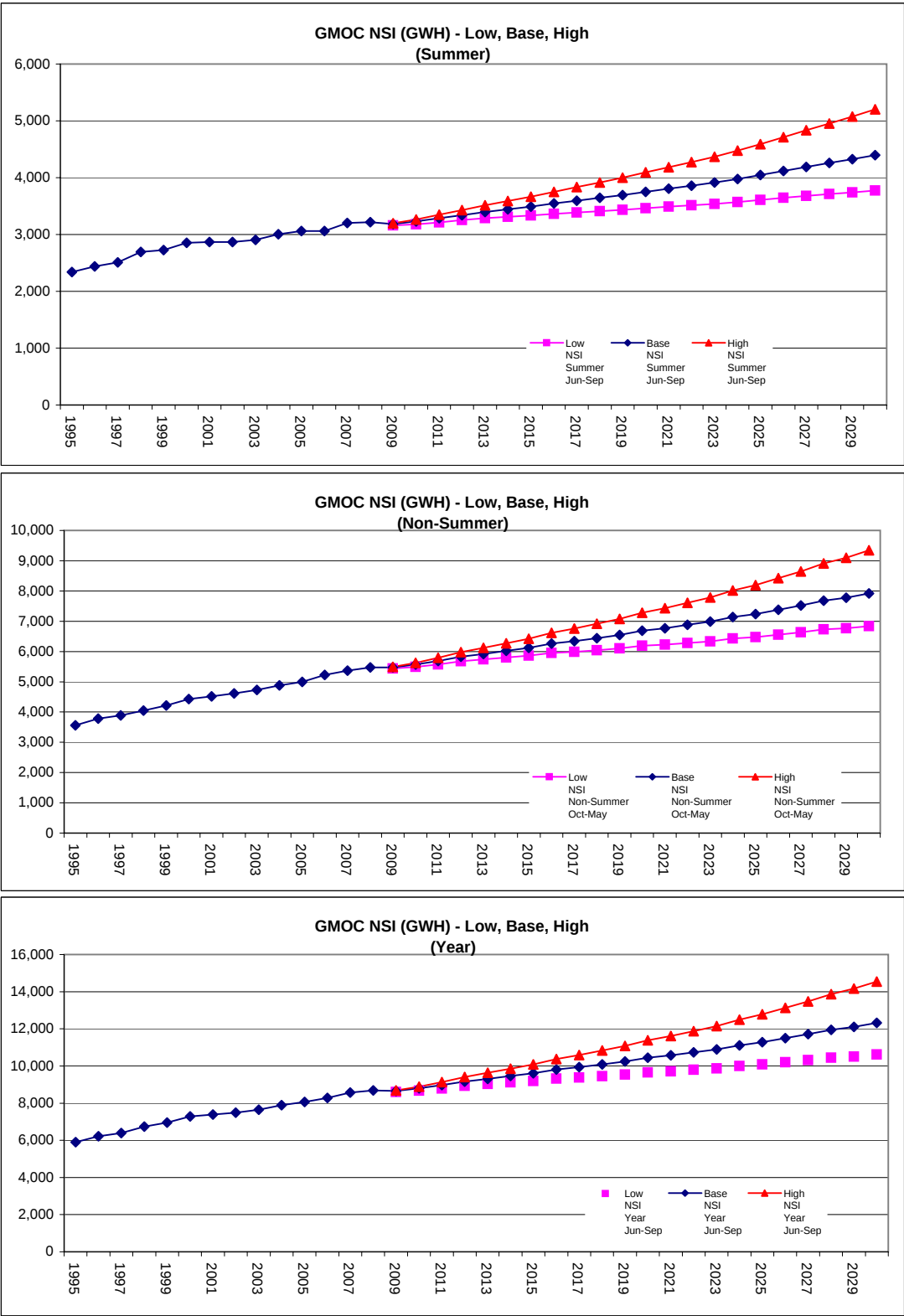
Note: Energy MWH (NSI) Includes annual system losses



Plot K-6 Greater Missouri Operation Company (GMOC) Energy Forecast (GWH): Net System Input (NSI)
(Low Case, Base Case, High Case)

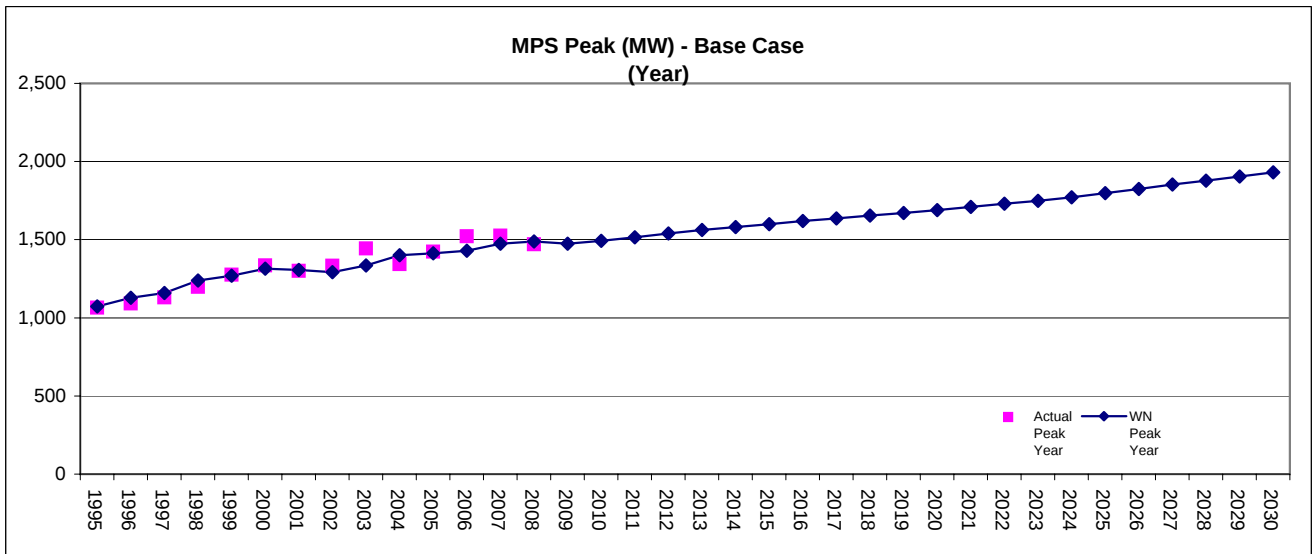
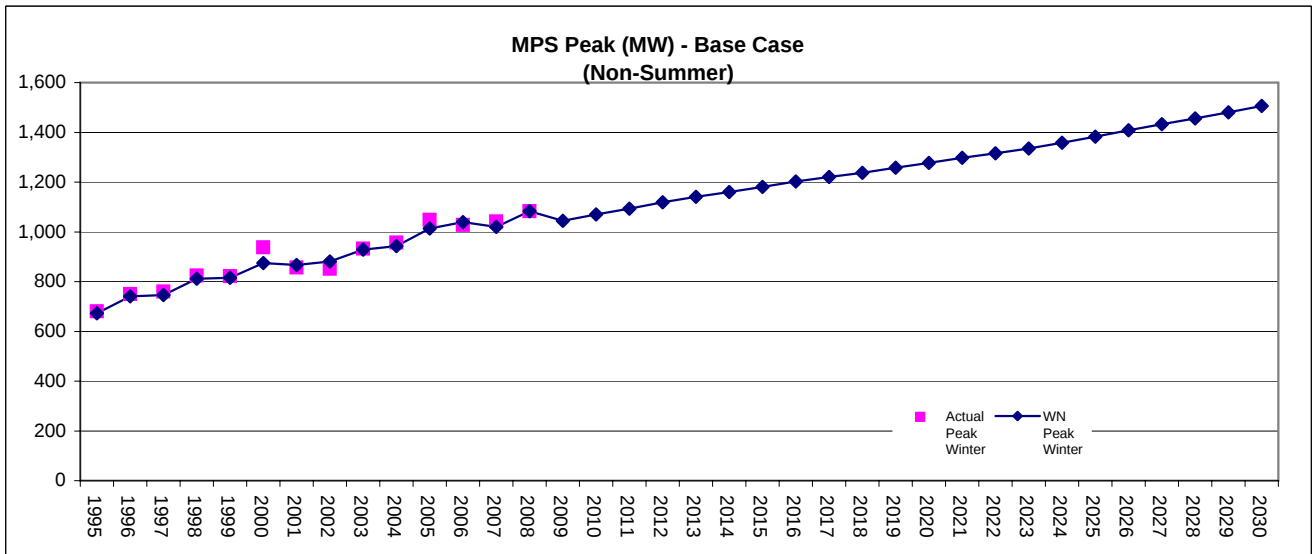
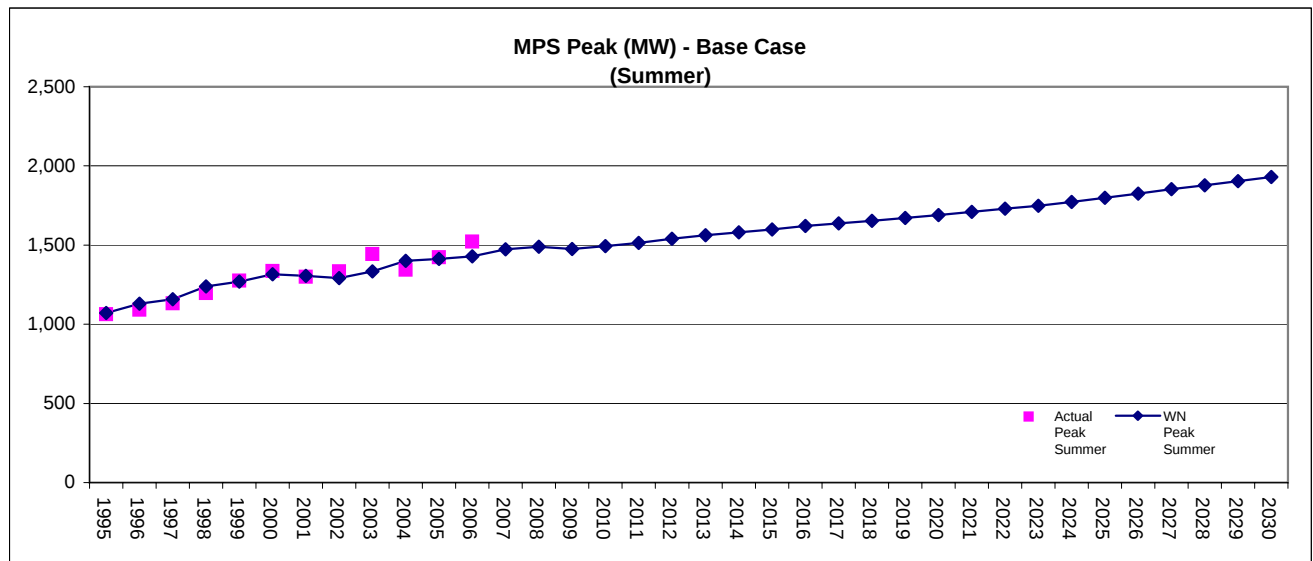
Year	Low NSI Summer Jun-Sep	Base NSI Summer Jun-Sep	High NSI Summer Jun-Sep	Low NSI Non-Summer Oct-May	Base NSI Non-Summer Oct-May	High NSI Non-Summer Oct-May	Low NSI Year Jun-Sep	Base NSI Year Jun-Sep	High NSI Year Jun-Sep
1990		-			-			-	
1991		-			-			-	
1992		-			-			-	
1993		-			-			-	
1994		-			-			-	
1995		2,338.2			3,557.8			5,896.1	
1996		2,436.4			3,780.8			6,217.1	
1997		2,509.7			3,884.4			6,394.1	
1998		2,694.7			4,044.8			6,739.4	
1999		2,728.3			4,220.0			6,948.3	
2000		2,854.0			4,427.1			7,281.1	
2001		2,865.8			4,516.6			7,382.4	
2002		2,869.6			4,612.0			7,481.7	
2003		2,905.6			4,733.8			7,639.4	
2004		3,007.0			4,883.0			7,890.0	
2005		3,063.2			4,996.6			8,059.8	
2006		3,063.0			5,222.1			8,285.1	
2007		3,204.2			5,365.9			8,570.1	
2008		3,215.8			5,469.6			8,685.3	
2009	3,161.3	3,183.4	3,197.0	5,438.6	5,470.5	5,489.9	8,599.9	8,653.9	8,686.9
2010	3,179.6	3,229.9	3,265.1	5,487.2	5,567.1	5,623.3	8,666.7	8,797.0	8,888.5
2011	3,214.6	3,287.2	3,347.9	5,570.8	5,690.7	5,790.3	8,785.4	8,977.9	9,138.2
2012	3,254.7	3,340.5	3,431.0	5,681.7	5,826.8	5,977.9	8,936.5	9,167.3	9,408.8
2013	3,287.9	3,394.0	3,512.6	5,740.2	5,917.1	6,117.8	9,028.1	9,311.2	9,630.4
2014	3,310.5	3,441.1	3,587.5	5,802.1	6,020.4	6,270.0	9,112.7	9,461.4	9,857.5
2015	3,334.7	3,490.0	3,665.6	5,861.2	6,122.6	6,423.3	9,195.9	9,612.6	10,088.9
2016	3,363.9	3,544.9	3,751.6	5,955.0	6,262.9	6,619.5	9,318.8	9,807.8	10,371.0
2017	3,388.3	3,595.6	3,834.6	5,990.7	6,343.8	6,755.7	9,379.1	9,939.4	10,590.3
2018	3,410.5	3,644.0	3,915.8	6,044.0	6,443.6	6,913.7	9,454.5	10,087.6	10,829.5
2019	3,434.5	3,694.6	4,000.5	6,100.4	6,547.3	7,077.7	9,534.9	10,241.9	11,078.2
2020	3,462.8	3,750.5	4,092.3	6,190.1	6,688.2	7,284.3	9,652.9	10,438.7	11,376.6
2021	3,489.6	3,805.5	4,184.1	6,224.4	6,770.7	7,430.0	9,714.0	10,576.2	11,614.1
2022	3,514.4	3,859.1	4,275.7	6,280.4	6,878.0	7,604.8	9,794.9	10,737.1	11,880.5
2023	3,538.7	3,913.0	4,369.4	6,334.8	6,985.3	7,782.6	9,873.5	10,898.3	12,152.0
2024	3,570.0	3,976.0	4,475.1	6,427.7	7,136.3	8,012.8	9,997.7	11,112.3	12,488.0
2025	3,606.5	4,046.2	4,590.9	6,476.6	7,240.5	8,194.6	10,083.1	11,286.7	12,785.5
2026	3,644.2	4,118.7	4,711.3	6,556.1	7,380.2	8,419.8	10,200.3	11,498.9	13,131.1
2027	3,679.6	4,190.1	4,832.8	6,632.7	7,518.1	8,647.1	10,312.3	11,708.3	13,479.8
2028	3,710.5	4,257.6	4,952.0	6,730.8	7,682.4	8,909.0	10,441.3	11,940.1	13,861.0
2029	3,740.4	4,325.5	5,074.1	6,768.8	7,780.5	9,099.6	10,509.1	12,106.0	14,173.8
2030	3,771.9	4,396.2	5,201.9	6,840.6	7,918.7	9,340.8	10,612.4	12,314.8	14,542.7
95-'08	2.5%	2.5%	2.5%	3.4%	3.4%	3.4%	3.0%	3.0%	3.0%
08-'10	-0.6%	0.2%	0.8%	0.2%	0.9%	1.4%	-0.1%	0.6%	1.2%
10-'15	1.0%	1.6%	2.3%	1.3%	1.9%	2.7%	1.2%	1.8%	2.6%
15-'20	0.8%	1.5%	2.2%	1.1%	1.8%	2.5%	1.0%	1.7%	2.4%
20-'25	0.8%	1.5%	2.3%	0.9%	1.6%	2.4%	0.9%	1.6%	2.4%
25-'30	0.9%	1.7%	2.5%	1.1%	1.8%	2.7%	1.0%	1.8%	2.6%
08-'30	0.7%	1.4%	2.2%	1.0%	1.7%	2.5%	0.9%	1.6%	2.4%

Note: Energy MWH (NSI) Includes annual system losses



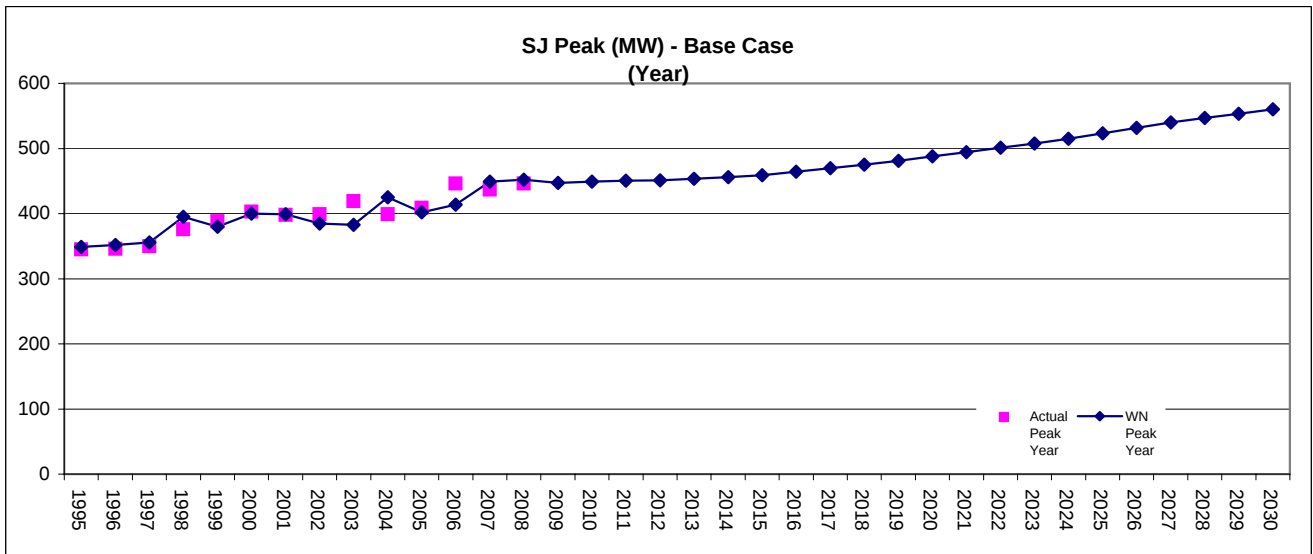
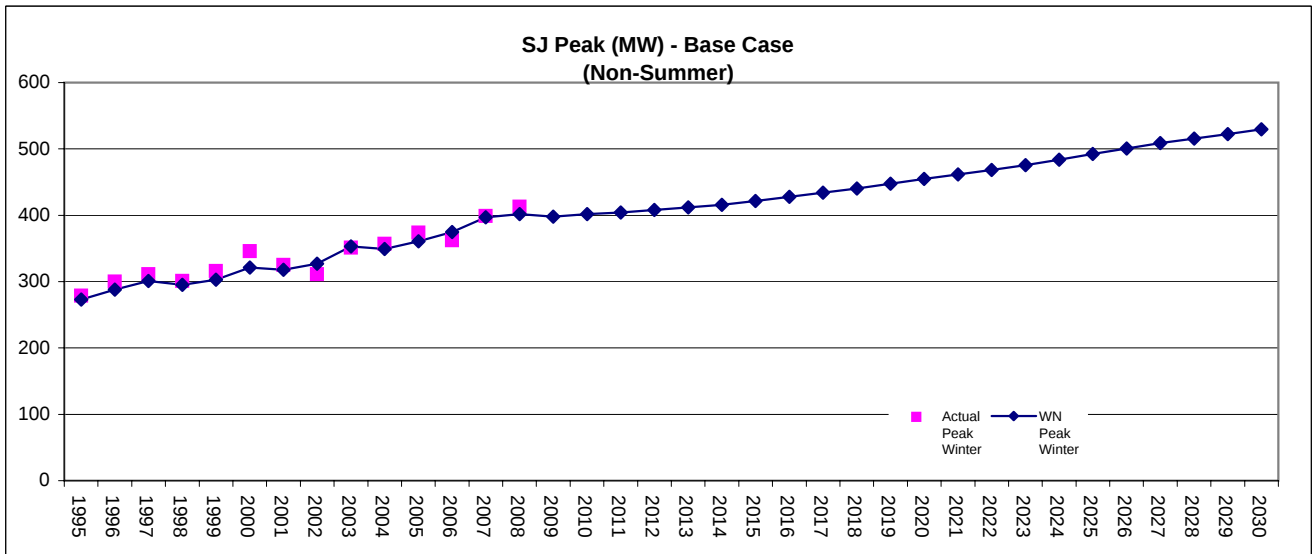
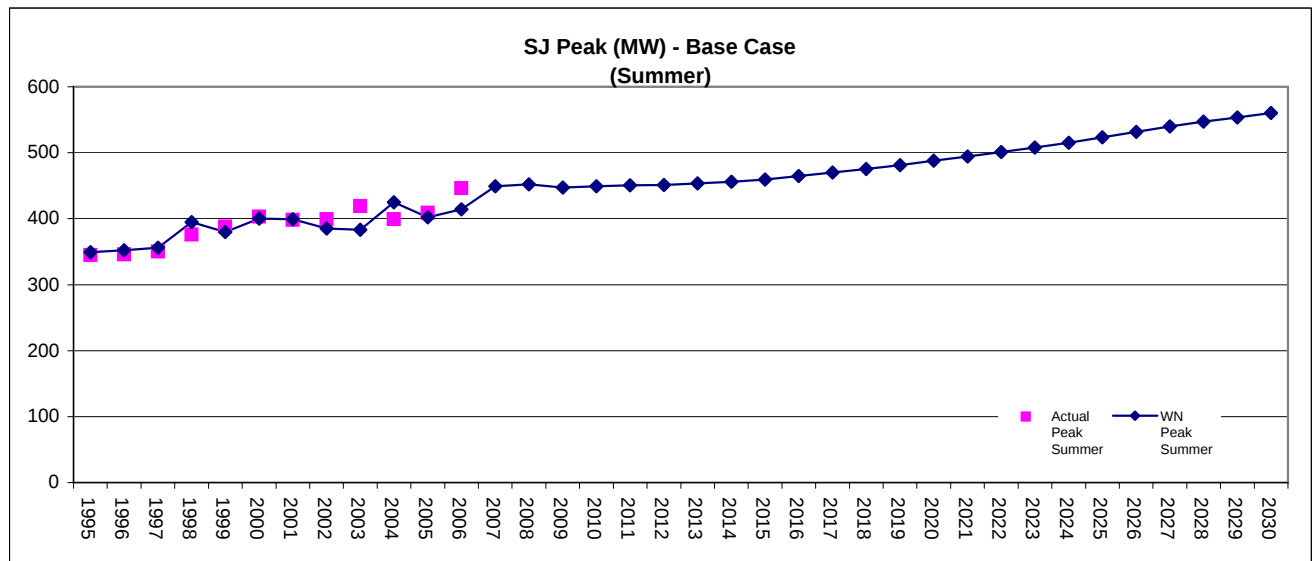
**Plot K-7 Missouri Public Service Peak Forecast (MW) - Base Case
(Actual vs. Weather Normalized)**

Year	Actual Peak Summer	WN Peak Summer	Actual Peak Winter	WN Peak Winter	Actual Peak Year	WN Peak Year
1990	-	-	-	-	-	-
1991	-	-	-	-	-	-
1992	-	-	-	-	-	-
1993	-	-	-	-	-	-
1994	-	-	-	-	-	-
1995	1,064	1,072	681	673	1,064	1,072
1996	1,091	1,129	750	741	1,091	1,129
1997	1,131	1,159	760	746	1,131	1,159
1998	1,197	1,238	824	812	1,197	1,238
1999	1,276	1,269	822	816	1,276	1,269
2000	1,335	1,315	937	875	1,335	1,315
2001	1,300	1,306	856	867	1,300	1,306
2002	1,333	1,292	851	881	1,333	1,292
2003	1,443	1,334	933	929	1,443	1,334
2004	1,344	1,400	957	943	1,344	1,400
2005	1,422	1,413	1,048	1,014	1,422	1,413
2006	1,521	1,429	1,028	1,039	1,521	1,429
2007	1,525	1,474	1,042	1,020	1,525	1,474
2008	1,470	1,489	1,083	1,083	1,470	1,489
2009		1,475		1,044		1,475
2010		1,493		1,069		1,493
2011		1,515		1,093		1,515
2012		1,539		1,119		1,539
2013		1,563		1,141		1,563
2014		1,581		1,161		1,581
2015		1,600		1,181		1,600
2016		1,620		1,203		1,620
2017		1,637		1,221		1,637
2018		1,653		1,238		1,653
2019		1,671		1,258		1,671
2020		1,690		1,278		1,690
2021		1,710		1,297		1,710
2022		1,729		1,316		1,729
2023		1,748		1,335		1,748
2024		1,772		1,358		1,772
2025		1,798		1,383		1,798
2026		1,825		1,408		1,825
2027		1,852		1,432		1,852
2028		1,878		1,456		1,878
2029		1,904		1,481		1,904
2030		1,931		1,507		1,931
95-'08	2.5%	2.6%	3.6%	3.7%	2.5%	2.6%
08-'10		0.1%		-0.6%		0.1%
10-'15		1.4%		2.0%		1.4%
15-'20		1.1%		1.6%		1.1%
20-'25		1.2%		1.6%		1.2%
25-'30		1.4%		1.7%		1.4%
08-'30		1.2%		1.5%		1.2%



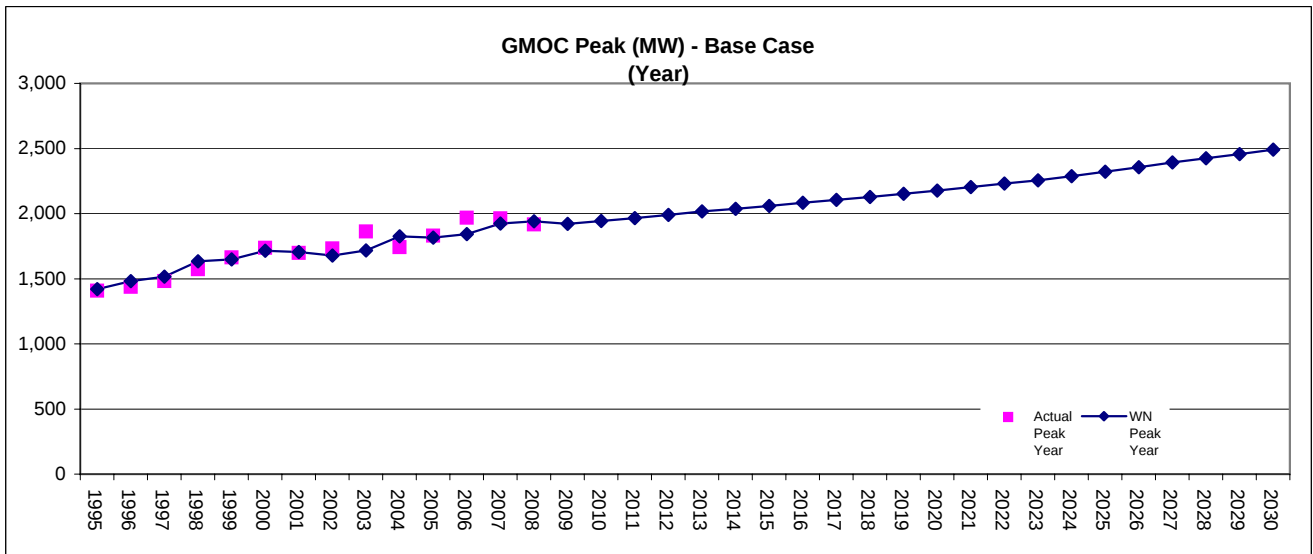
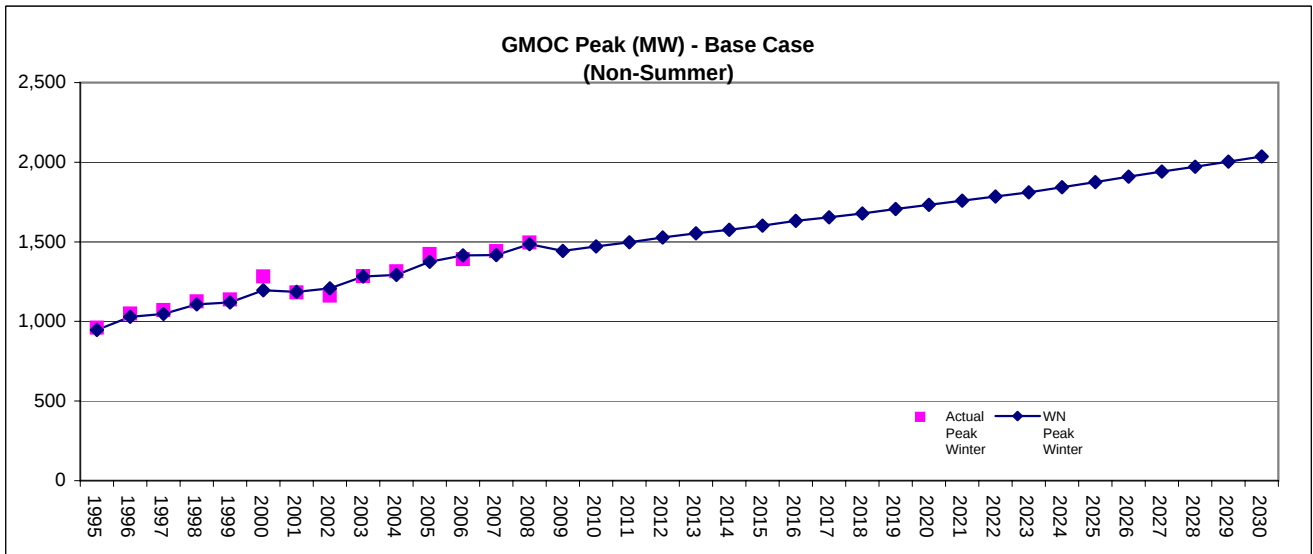
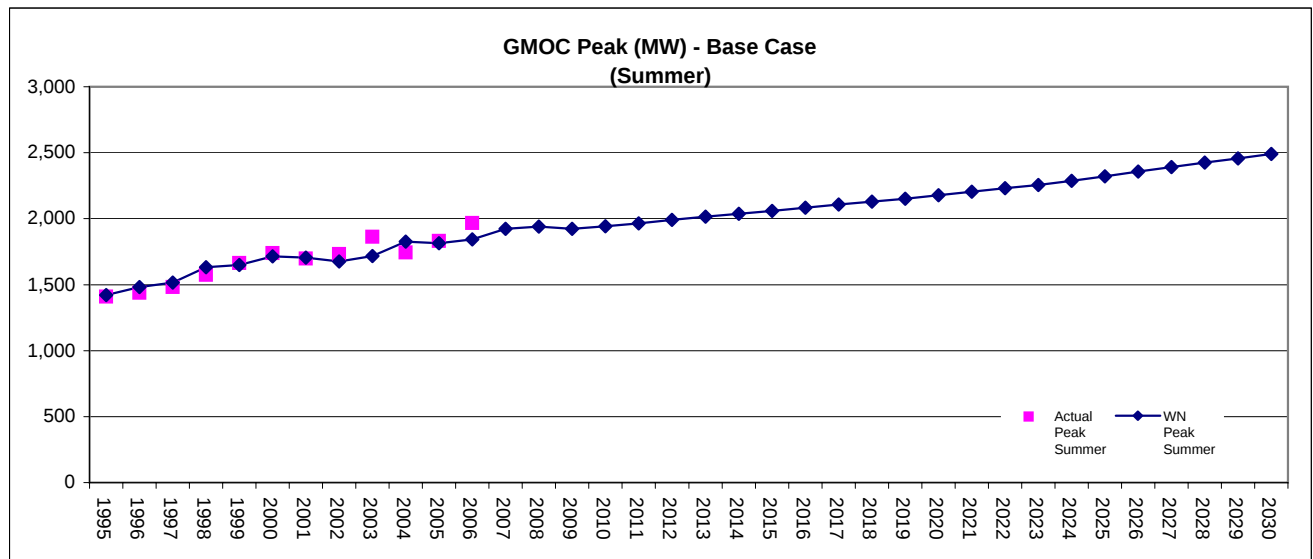
**Plot K-8 St. Joseph Peak Forecast (MW) - Base Case
(Actual vs. Weather Normalized)**

Year	Actual Peak Summer	WN Peak Summer	Actual Peak Winter	WN Peak Winter	Actual Peak Year	WN Peak Year
1990	-	-	-	-	-	-
1991	-	-	-	-	-	-
1992	-	-	-	-	-	-
1993	-	-	-	-	-	-
1994	-	-	-	-	-	-
1995	345	349	279	273	345	349
1996	346	352	300	288	346	352
1997	350	356	311	301	350	356
1998	376	395	301	295	376	395
1999	388	380	316	303	388	380
2000	403	400	346	321	403	400
2001	398	399	325	318	398	399
2002	399	385	311	327	399	385
2003	419	383	351	353	419	383
2004	399	425	357	349	399	425
2005	409	402	374	361	409	402
2006	446	414	362	375	446	414
2007	437	449	399	397	437	449
2008	446	452	413	402	446	452
2009		447		398		447
2010		449		402		449
2011		450		404		450
2012		451		408		451
2013		453		412		453
2014		456		416		456
2015		459		421		459
2016		464		428		464
2017		470		434		470
2018		475		440		475
2019		481		448		481
2020		488		455		488
2021		494		462		494
2022		501		469		501
2023		508		476		508
2024		515		484		515
2025		523		492		523
2026		532		501		532
2027		540		509		540
2028		547		515		547
2029		553		522		553
2030		560		530		560
95-'08	2.0%	2.0%	3.1%	3.0%	2.0%	2.0%
08-'10		-0.3%		0.0%		-0.3%
10-'15		0.4%		1.0%		0.4%
15-'20		1.2%		1.5%		1.2%
20-'25		1.4%		1.6%		1.4%
25-'30		1.4%		1.5%		1.4%
08-'30		1.0%		1.3%		1.0%



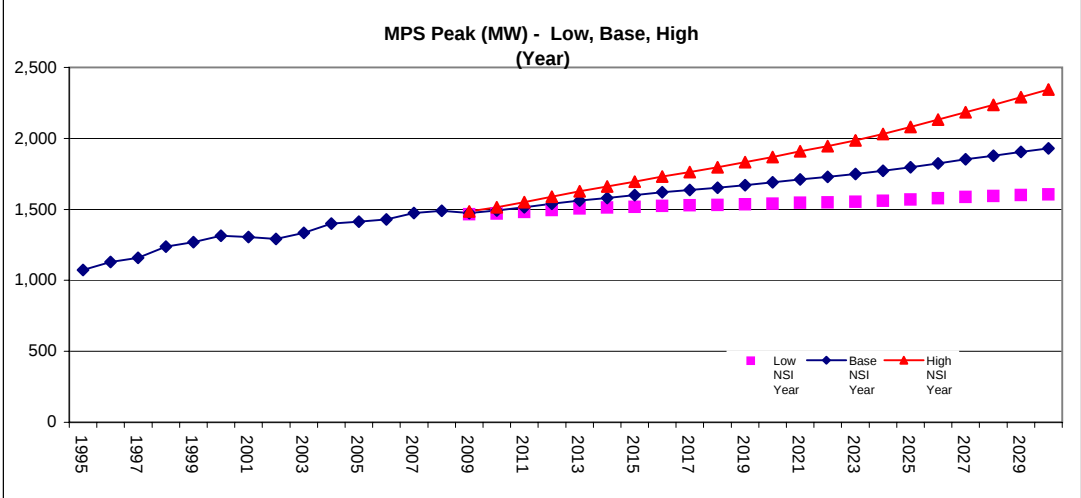
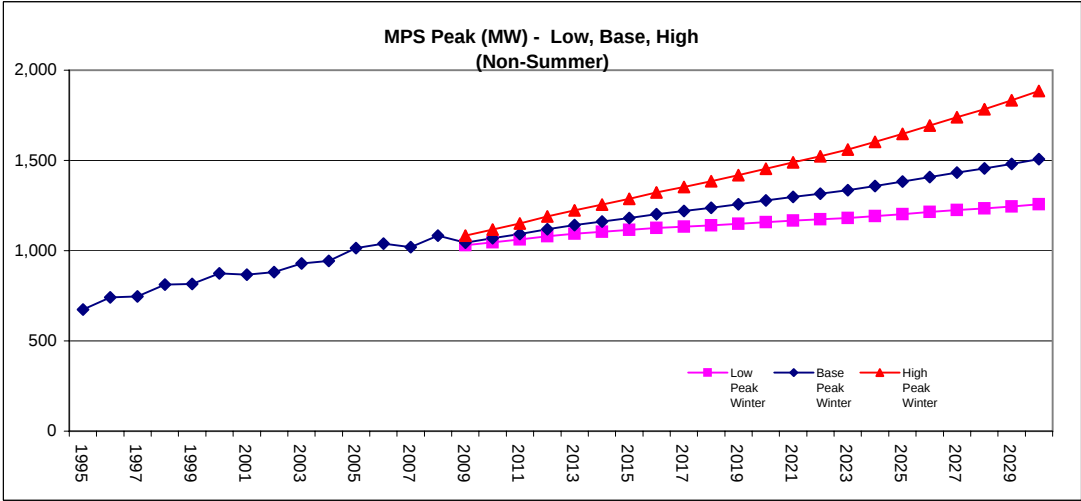
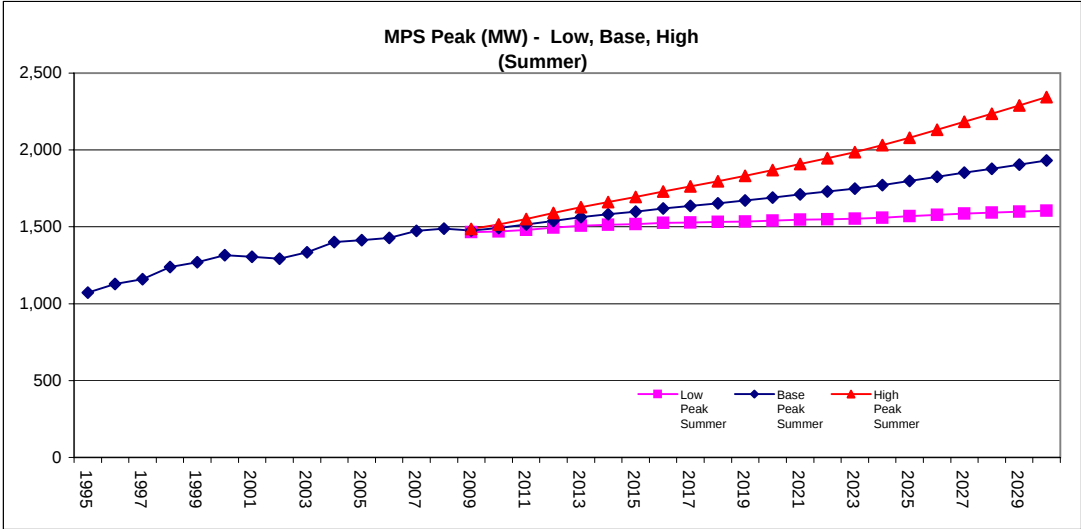
**Plot K-9 Greater Missouri Operation Company (GMOC) Peak Forecast (MW) - Base Case
(Actual vs. Weather Normalized)**

Year	Actual Peak Summer	WN Peak Summer	Actual Peak Winter	WN Peak Winter	Actual Peak Year	WN Peak Year
1990	-	-	-	-	-	-
1991	-	-	-	-	-	-
1992	-	-	-	-	-	-
1993	-	-	-	-	-	-
1994	-	-	-	-	-	-
1995	1,409	1,421	960	946	1,409	1,421
1996	1,437	1,481	1,050	1,029	1,437	1,481
1997	1,481	1,515	1,071	1,047	1,481	1,515
1998	1,573	1,633	1,125	1,107	1,573	1,633
1999	1,664	1,649	1,138	1,119	1,664	1,649
2000	1,738	1,715	1,283	1,196	1,738	1,715
2001	1,698	1,705	1,181	1,185	1,698	1,705
2002	1,732	1,677	1,162	1,208	1,732	1,677
2003	1,862	1,717	1,284	1,282	1,862	1,717
2004	1,743	1,825	1,314	1,292	1,743	1,825
2005	1,831	1,815	1,422	1,375	1,831	1,815
2006	1,967	1,843	1,390	1,414	1,967	1,843
2007	1,962	1,923	1,441	1,417	1,962	1,923
2008	1,916	1,941	1,496	1,485	1,916	1,941
2009		1,922		1,442		1,922
2010		1,942		1,471		1,942
2011		1,965		1,497		1,965
2012		1,990		1,526		1,990
2013		2,017		1,553		2,017
2014		2,037		1,576		2,037
2015		2,059		1,603		2,059
2016		2,084		1,631		2,084
2017		2,107		1,655		2,107
2018		2,129		1,678		2,129
2019		2,152		1,705		2,152
2020		2,178		1,732		2,178
2021		2,205		1,759		2,205
2022		2,230		1,784		2,230
2023		2,256		1,811		2,256
2024		2,287		1,842		2,287
2025		2,321		1,875		2,321
2026		2,357		1,909		2,357
2027		2,392		1,941		2,392
2028		2,425		1,971		2,425
2029		2,457		2,003		2,457
2030		2,491		2,036		2,491
95-'08	2.4%	2.4%	3.5%	3.5%	2.4%	2.4%
08-'10		0.0%		-0.5%		0.0%
10-'15		1.2%		1.7%		1.2%
15-'20		1.1%		1.6%		1.1%
20-'25		1.3%		1.6%		1.3%
25-'30		1.4%		1.7%		1.4%
08-'30		1.1%		1.4%		1.1%



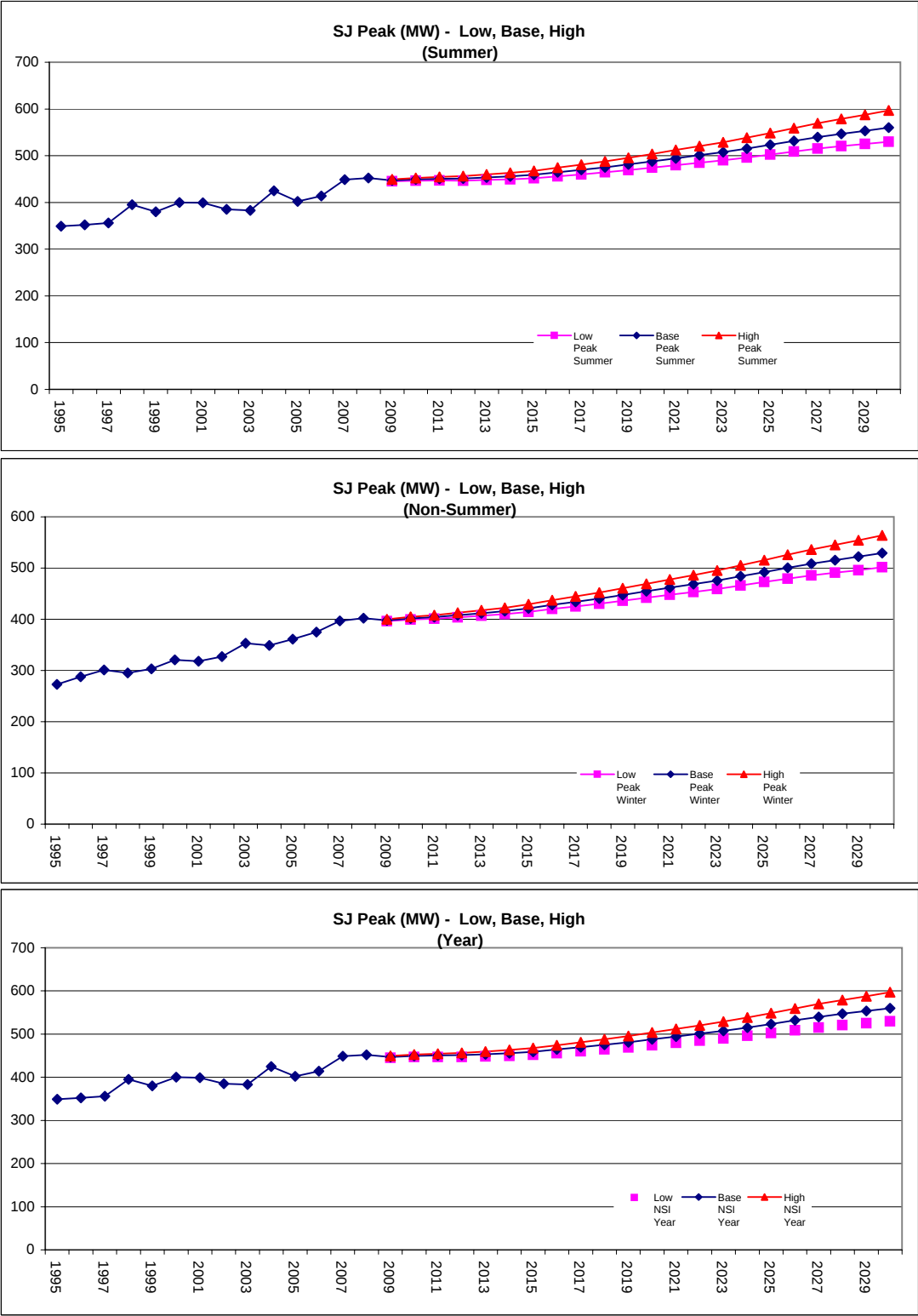
Plot K-10 Missouri Public Service Peak Forecast (MW)
(Low Case, Base Case, High Cast)

Year	Low Peak Summer	Base Peak Summer	High Peak Summer	Low Peak Winter	Base Peak Winter	High Peak Winter	Low NSI Year	Base NSI Year	High NSI Year
1990		-			-			-	
1991		-			-			-	
1992		-			-			-	
1993		-			-			-	
1994		-			-			-	
1995		1,072			673			1,072	
1996		1,129			741			1,129	
1997		1,159			746			1,159	
1998		1,238			812			1,238	
1999		1,269			816			1,269	
2000		1,315			875			1,315	
2001		1,306			867			1,306	
2002		1,292			881			1,292	
2003		1,334			929			1,334	
2004		1,400			943			1,400	
2005		1,413			1,014			1,413	
2006		1,429			1,039			1,429	
2007		1,474			1,020			1,474	
2008		1,489			1,083			1,489	
2009	1,465	1,475	1,486	1,031	1,044	1,083	1,465	1,475	1,486
2010	1,471	1,493	1,515	1,047	1,069	1,117	1,471	1,493	1,515
2011	1,480	1,515	1,550	1,062	1,093	1,151	1,480	1,515	1,550
2012	1,495	1,539	1,590	1,080	1,119	1,190	1,495	1,539	1,590
2013	1,507	1,563	1,628	1,094	1,141	1,224	1,507	1,563	1,628
2014	1,512	1,581	1,661	1,104	1,161	1,255	1,512	1,581	1,661
2015	1,518	1,600	1,694	1,115	1,181	1,288	1,518	1,600	1,694
2016	1,525	1,620	1,730	1,126	1,203	1,322	1,525	1,620	1,730
2017	1,528	1,637	1,764	1,134	1,221	1,353	1,528	1,637	1,764
2018	1,531	1,653	1,797	1,141	1,238	1,384	1,531	1,653	1,797
2019	1,535	1,671	1,832	1,149	1,258	1,418	1,535	1,671	1,832
2020	1,540	1,690	1,869	1,158	1,278	1,454	1,540	1,690	1,869
2021	1,546	1,710	1,908	1,167	1,297	1,489	1,546	1,710	1,908
2022	1,550	1,729	1,946	1,173	1,316	1,524	1,550	1,729	1,946
2023	1,553	1,748	1,986	1,180	1,335	1,560	1,553	1,748	1,986
2024	1,560	1,772	2,031	1,191	1,358	1,602	1,560	1,772	2,031
2025	1,569	1,798	2,080	1,202	1,383	1,647	1,569	1,798	2,080
2026	1,578	1,825	2,131	1,214	1,408	1,693	1,578	1,825	2,131
2027	1,586	1,852	2,184	1,225	1,432	1,739	1,586	1,852	2,184
2028	1,593	1,878	2,236	1,235	1,456	1,785	1,593	1,878	2,236
2029	1,599	1,904	2,289	1,245	1,481	1,834	1,599	1,904	2,289
2030	1,606	1,931	2,345	1,256	1,507	1,885	1,606	1,931	2,345
95-'08	2.6%	2.6%	2.6%	3.7%	3.7%	3.7%	2.6%	2.6%	2.2%
08-'10	-0.6%	0.1%	0.9%	-1.7%	-0.6%	1.6%	-0.6%	0.1%	0.9%
10-'15	0.6%	1.4%	2.3%	1.3%	2.0%	2.9%	0.6%	1.4%	2.3%
15-'20	0.3%	1.1%	2.0%	0.8%	1.6%	2.5%	0.3%	1.1%	2.0%
20-'25	0.4%	1.2%	2.2%	0.7%	1.6%	2.5%	0.4%	1.2%	2.2%
25-'30	0.5%	1.4%	2.4%	0.9%	1.7%	2.7%	0.5%	1.4%	2.4%
08-'30	0.3%	1.2%	2.1%	0.7%	1.5%	2.6%	0.3%	1.2%	2.1%



Plot K-11 St. Joseph Peak Forecast (MW)
(Low Case, Base Case, High Cast)

Year	Low Peak Summer	Base Peak Summer	High Peak Summer	Low Peak Winter	Base Peak Winter	High Peak Winter	Low NSI Year	Base NSI Year	High NSI Year
1990		-			-			-	
1991		-			-			-	
1992		-			-			-	
1993		-			-			-	
1994		-			-			-	
1995		349			273			349	
1996		352			288			352	
1997		356			301			356	
1998		395			295			395	
1999		380			303			380	
2000		400			321			400	
2001		399			318			399	
2002		385			327			385	
2003		383			353			383	
2004		425			349			425	
2005		402			361			402	
2006		414			375			414	
2007		449			397			449	
2008		452			402			452	
2009	445	447	449	396	398	400	445	447	449
2010	447	449	453	399	402	405	447	449	453
2011	447	450	455	401	404	408	447	450	455
2012	447	451	456	404	408	413	447	451	456
2013	448	453	460	407	412	418	448	453	460
2014	449	456	463	410	416	422	449	456	463
2015	452	459	468	415	421	429	452	459	468
2016	456	464	474	420	428	437	456	464	474
2017	460	470	481	425	434	444	460	470	481
2018	464	475	488	430	440	452	464	475	488
2019	469	481	496	436	448	461	469	481	496
2020	474	488	504	442	455	469	474	488	504
2021	480	494	512	448	462	478	480	494	512
2022	485	501	520	453	469	486	485	501	520
2023	490	508	529	459	476	495	490	508	529
2024	496	515	538	466	484	505	496	515	538
2025	502	523	549	473	492	516	502	523	549
2026	509	532	559	479	501	526	509	532	559
2027	515	540	570	486	509	536	515	540	570
2028	521	547	579	491	515	545	521	547	579
2029	525	553	588	496	522	554	525	553	588
2030	530	560	597	501	530	564	530	560	597
95-'08	2.0%	2.0%	2.0%	3.0%	3.0%	3.0%	2.0%	2.0%	2.0%
08-'10	-0.6%	-0.3%	0.1%	-0.3%	0.0%	0.3%	-0.6%	-0.3%	0.1%
10-'15	0.2%	0.4%	0.7%	0.8%	1.0%	1.2%	0.2%	0.4%	0.7%
15-'20	1.0%	1.2%	1.5%	1.3%	1.5%	1.8%	1.0%	1.2%	1.5%
20-'25	1.2%	1.4%	1.7%	1.3%	1.6%	1.9%	1.2%	1.4%	1.7%
25-'30	1.1%	1.4%	1.7%	1.2%	1.5%	1.8%	1.1%	1.4%	1.7%
08-'30	0.7%	1.0%	1.3%	1.0%	1.3%	1.5%	0.7%	1.0%	1.3%



Plot K-12 Greater Missouri Operation Company (GMOC) Peak Forecast (MW)
(Low Case, Base Case, High Cast)

Year	Low Peak Summer	Base Peak Summer	High Peak Summer	Low Peak Winter	Base Peak Winter	High Peak Winter	Low NSI Year	Base NSI Year	High NSI Year
1990		-			-			-	
1991		-			-			-	
1992		-			-			-	
1993		-			-			-	
1994		-			-			-	
1995		1,421			946			1,421	
1996		1,481			1,029			1,481	
1997		1,515			1,047			1,515	
1998		1,633			1,107			1,633	
1999		1,649			1,119			1,649	
2000		1,715			1,196			1,715	
2001		1,705			1,185			1,705	
2002		1,677			1,208			1,677	
2003		1,717			1,282			1,717	
2004		1,825			1,292			1,825	
2005		1,815			1,375			1,815	
2006		1,843			1,414			1,843	
2007		1,923			1,417			1,923	
2008		1,941			1,485			1,941	
2009	1,910	1,922	1,936	1,427	1,442	1,482	1,910	1,922	1,936
2010	1,917	1,942	1,968	1,446	1,471	1,522	1,917	1,942	1,968
2011	1,927	1,965	2,005	1,463	1,497	1,559	1,927	1,965	2,005
2012	1,941	1,990	2,046	1,484	1,526	1,602	1,941	1,990	2,046
2013	1,955	2,017	2,088	1,501	1,553	1,641	1,955	2,017	2,088
2014	1,962	2,037	2,124	1,514	1,576	1,677	1,962	2,037	2,124
2015	1,970	2,059	2,162	1,530	1,603	1,717	1,970	2,059	2,162
2016	1,981	2,084	2,205	1,547	1,631	1,759	1,981	2,084	2,205
2017	1,989	2,107	2,245	1,559	1,655	1,797	1,989	2,107	2,245
2018	1,996	2,129	2,285	1,571	1,678	1,836	1,996	2,129	2,285
2019	2,004	2,152	2,327	1,586	1,705	1,879	2,004	2,152	2,327
2020	2,014	2,178	2,373	1,601	1,732	1,923	2,014	2,178	2,373
2021	2,025	2,205	2,420	1,615	1,759	1,967	2,025	2,205	2,420
2022	2,034	2,230	2,467	1,627	1,784	2,010	2,034	2,230	2,467
2023	2,043	2,256	2,515	1,640	1,811	2,055	2,043	2,256	2,515
2024	2,056	2,287	2,569	1,656	1,842	2,107	2,056	2,287	2,569
2025	2,071	2,321	2,629	1,675	1,875	2,162	2,071	2,321	2,629
2026	2,087	2,357	2,691	1,693	1,909	2,219	2,087	2,357	2,691
2027	2,102	2,392	2,754	1,710	1,941	2,275	2,102	2,392	2,754
2028	2,113	2,425	2,815	1,725	1,971	2,330	2,113	2,425	2,815
2029	2,124	2,457	2,877	1,741	2,003	2,388	2,124	2,457	2,877
2030	2,136	2,491	2,942	1,758	2,036	2,449	2,136	2,491	2,942
95-'08	2.4%	2.4%	2.4%	3.5%	3.5%	3.5%	2.4%	2.4%	2.4%
08-'10	-0.6%	0.0%	0.7%	-1.3%	-0.5%	1.2%	-0.6%	0.0%	0.7%
10-'15	0.5%	1.2%	1.9%	1.1%	1.7%	2.4%	0.5%	1.2%	1.9%
15-'20	0.5%	1.1%	1.9%	0.9%	1.6%	2.3%	0.5%	1.1%	1.9%
20-'25	0.6%	1.3%	2.1%	0.9%	1.6%	2.4%	0.6%	1.3%	2.1%
25-'30	0.6%	1.4%	2.3%	1.0%	1.7%	2.5%	0.6%	1.4%	2.3%
08-'30	0.4%	1.1%	1.9%	0.8%	1.4%	2.3%	0.4%	1.1%	1.9%

