

Part 1 - Appendix K
Kansas City Power & Light 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-4 for base-case KCP&L forecast reports designed to comply with section (8)(D) reporting requirements.

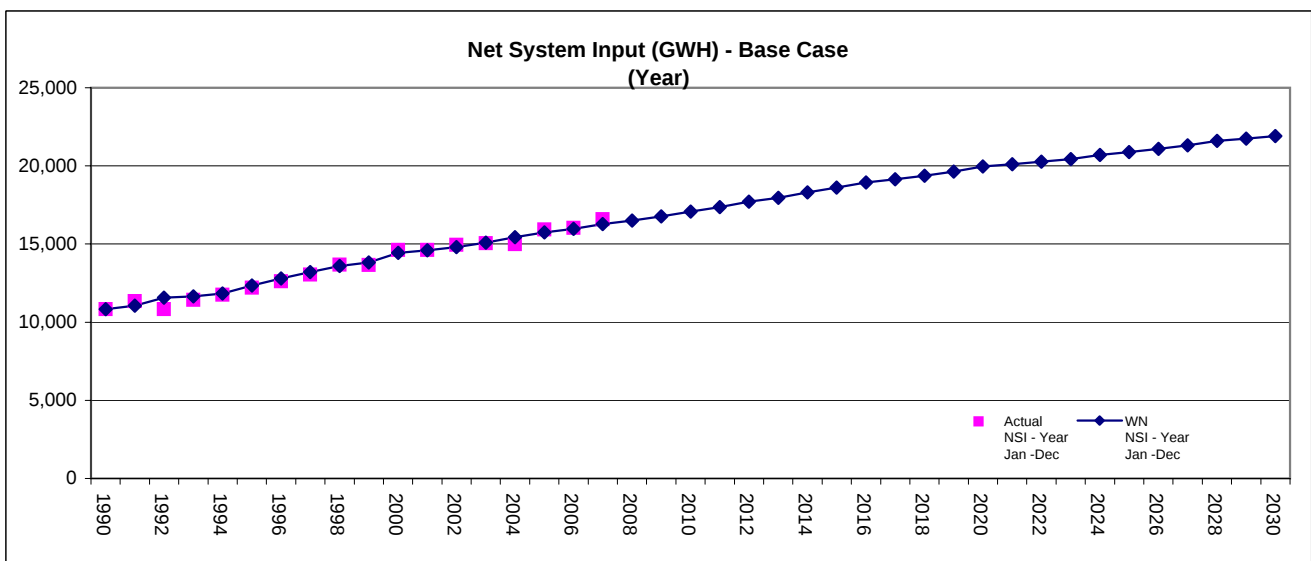
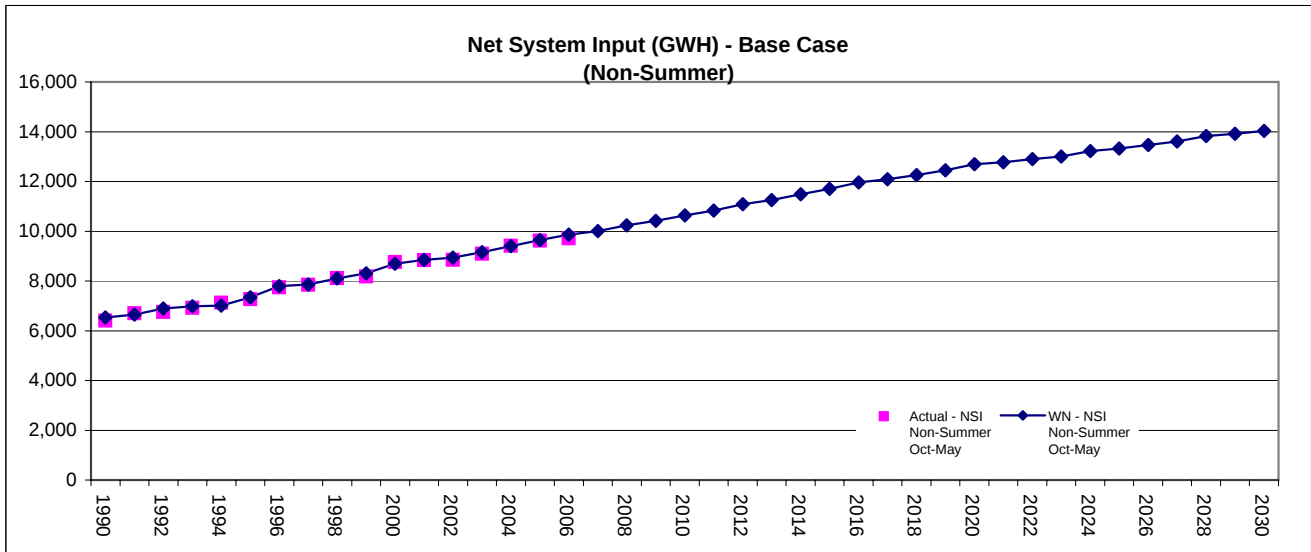
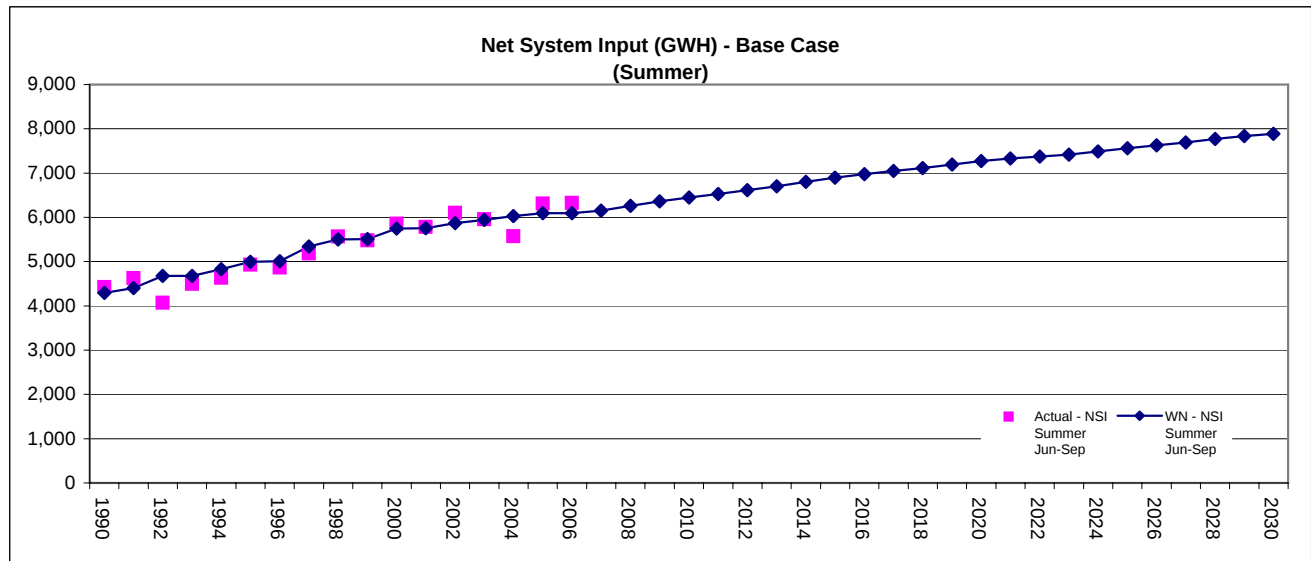
Linked Files:

IRP_8D_KCPL_NSI_Peak.xls
P_System_Datalyzer.xls
LOW P_System_Datalyzer.xls
HIGH P_System_Datalyzer.xls

Plot K-1 KCP&L 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	4,421.7	4,292.0	6,403.9	6,530.2	10,825.6	10,822.3
1991	4,627.3	4,400.8	6,705.6	6,647.4	11,333.0	11,048.2
1992	4,068.6	4,677.9	6,752.5	6,895.5	10,821.1	11,573.4
1993	4,497.7	4,675.8	6,922.5	6,978.7	11,420.2	11,654.5
1994	4,636.7	4,827.1	7,125.8	7,003.9	11,762.5	11,831.0
1995	4,928.2	4,993.0	7,268.7	7,347.3	12,197.0	12,340.3
1996	4,865.9	5,011.1	7,745.5	7,789.1	12,611.4	12,800.2
1997	5,185.2	5,343.0	7,847.8	7,856.9	13,033.0	13,199.9
1998	5,563.1	5,500.6	8,109.4	8,098.8	13,672.5	13,599.4
1999	5,480.1	5,509.6	8,183.4	8,312.9	13,663.5	13,822.5
2000	5,855.6	5,744.3	8,753.5	8,692.4	14,609.1	14,436.8
2001	5,781.6	5,751.1	8,838.2	8,852.2	14,619.7	14,603.3
2002	6,102.5	5,869.2	8,852.8	8,940.9	14,955.4	14,810.2
2003	5,953.9	5,944.2	9,098.6	9,155.8	15,052.5	15,100.0
2004	5,573.2	6,030.7	9,411.9	9,404.0	14,985.2	15,434.7
2005	6,313.5	6,092.7	9,615.2	9,642.7	15,928.7	15,735.4
2006	6,322.2	6,090.4	9,706.9	9,870.5	16,029.1	15,960.8
2007		6,153.6		10,004.0	16,589.2	16,286.9
2008		6,263.5		10,235.6		16,499.1
2009		6,359.5		10,416.1		16,775.6
2010		6,444.7		10,632.6		17,077.3
2011		6,525.0		10,834.9		17,359.9
2012		6,611.9		11,089.8		17,701.7
2013		6,703.1		11,255.4		17,958.5
2014		6,804.3		11,491.1		18,295.4
2015		6,894.4		11,708.2		18,602.5
2016		6,979.0		11,963.8		18,942.8
2017		7,048.3		12,094.3		19,142.6
2018		7,113.9		12,260.7		19,374.6
2019		7,195.6		12,449.0		19,644.5
2020		7,274.6		12,695.3		19,969.9
2021		7,329.1		12,774.0		20,103.1
2022		7,373.1		12,894.5		20,267.6
2023		7,419.4		13,006.8		20,426.2
2024		7,490.9		13,219.5		20,710.3
2025		7,561.1		13,319.9		20,881.0
2026		7,625.7		13,468.0		21,093.7
2027		7,692.7		13,612.6		21,305.3
2028		7,768.0		13,831.7		21,599.7
2029		7,834.9		13,918.4		21,753.3
2030		7,884.8		14,028.8		21,913.6
90-'06	2.3%	2.2%	2.6%	2.6%	2.5%	2.5%
07-'10		1.6%		2.1%		1.6%
10-'15		1.4%		1.9%		1.7%
15-'20		1.1%		1.6%		1.4%
20-'25		0.8%		1.0%		0.9%
25-'30		0.8%		1.0%		1.0%
07-'30		1.1%		1.5%		1.3%

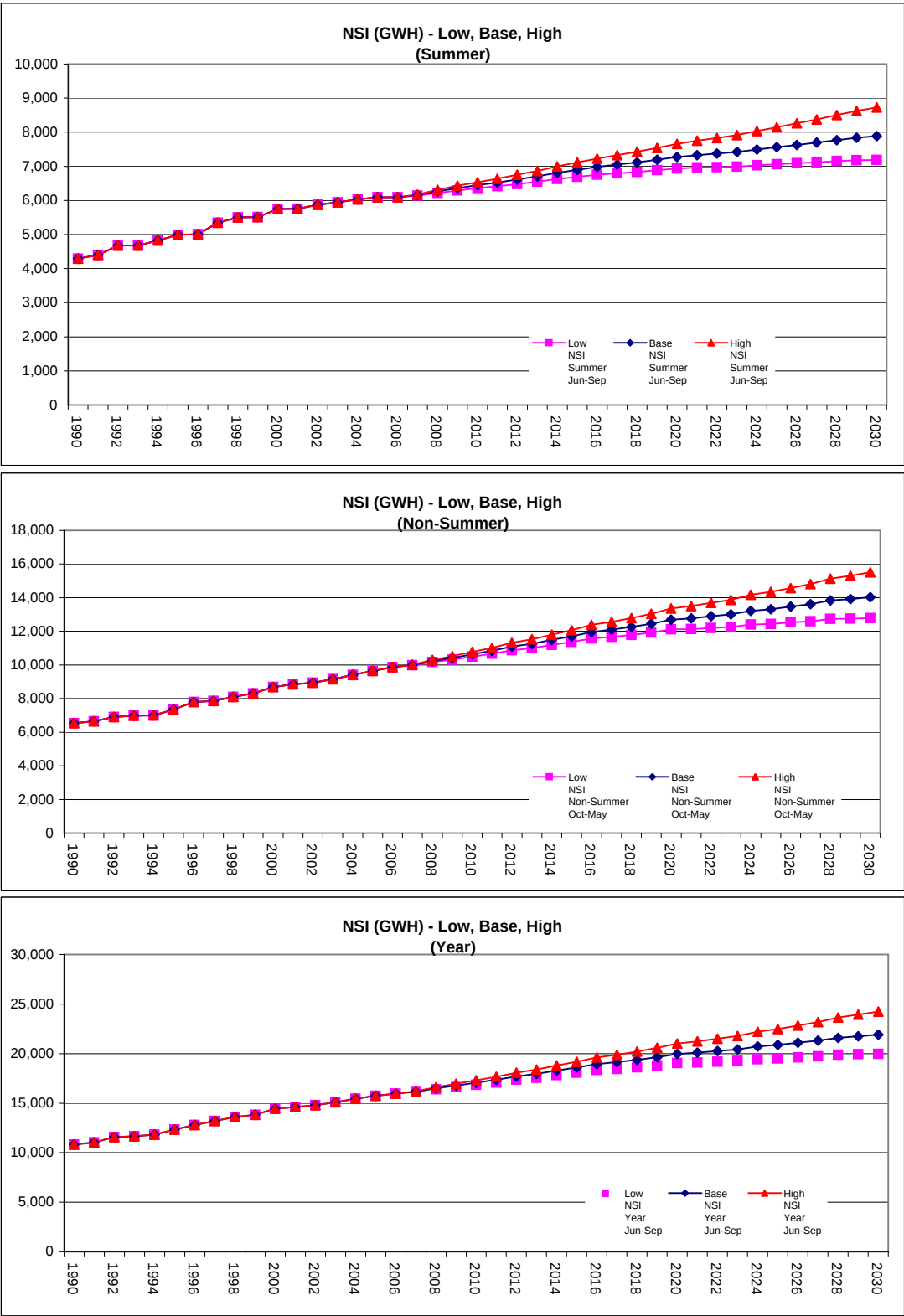
Note: Energy MWH (NSI) Includes annual system losses



Plot K-2 KCP&L 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	4,292.0	4,292.0	4,292.0	6,530.2	6,530.2	6,530.2	10,822.3	10,822.3	10,822.3
1991	4,400.8	4,400.8	4,400.8	6,647.4	6,647.4	6,647.4	11,048.2	11,048.2	11,048.2
1992	4,677.9	4,677.9	4,677.9	6,895.5	6,895.5	6,895.5	11,573.4	11,573.4	11,573.4
1993	4,675.8	4,675.8	4,675.8	6,978.7	6,978.7	6,978.7	11,654.5	11,654.5	11,654.5
1994	4,827.1	4,827.1	4,827.1	7,003.9	7,003.9	7,003.9	11,831.0	11,831.0	11,831.0
1995	4,993.0	4,993.0	4,993.0	7,347.3	7,347.3	7,347.3	12,340.3	12,340.3	12,340.3
1996	5,011.1	5,011.1	5,011.1	7,789.1	7,789.1	7,789.1	12,800.2	12,800.2	12,800.2
1997	5,343.0	5,343.0	5,343.0	7,856.9	7,856.9	7,856.9	13,199.9	13,199.9	13,199.9
1998	5,500.6	5,500.6	5,500.6	8,098.8	8,098.8	8,098.8	13,599.4	13,599.4	13,599.4
1999	5,509.6	5,509.6	5,509.6	8,312.9	8,312.9	8,312.9	13,822.5	13,822.5	13,822.5
2000	5,744.3	5,744.3	5,744.3	8,692.4	8,692.4	8,692.4	14,436.8	14,436.8	14,436.8
2001	5,751.1	5,751.1	5,751.1	8,852.2	8,852.2	8,852.2	14,603.3	14,603.3	14,603.3
2002	5,869.2	5,869.2	5,869.2	8,940.9	8,940.9	8,940.9	14,810.2	14,810.2	14,810.2
2003	5,944.2	5,944.2	5,944.2	9,155.8	9,155.8	9,155.8	15,100.0	15,100.0	15,100.0
2004	6,030.7	6,030.7	6,030.7	9,404.0	9,404.0	9,404.0	15,434.7	15,434.7	15,434.7
2005	6,092.7	6,092.7	6,092.7	9,642.7	9,642.7	9,642.7	15,735.4	15,735.4	15,735.4
2006	6,090.4	6,090.4	6,090.4	9,870.5	9,870.5	9,870.5	15,960.8	15,960.8	15,960.8
2007	6,136.8	6,153.6	6,170.6	9,988.0	10,004.0	10,019.9	16,124.9	16,157.6	16,190.5
2008	6,218.2	6,263.5	6,309.2	10,169.9	10,235.6	10,301.7	16,388.1	16,499.1	16,610.9
2009	6,292.6	6,359.5	6,427.9	10,313.5	10,416.1	10,520.5	16,606.1	16,775.6	16,948.4
2010	6,356.7	6,444.7	6,535.5	10,493.8	10,632.6	10,775.5	16,850.5	17,077.3	17,311.0
2011	6,415.8	6,525.0	6,638.9	10,659.2	10,834.9	11,017.6	17,075.0	17,359.9	17,656.6
2012	6,481.2	6,611.9	6,749.7	10,876.0	11,089.8	11,314.7	17,357.2	17,701.7	18,064.4
2013	6,550.3	6,703.1	6,865.9	11,003.9	11,255.4	11,523.0	17,554.2	17,958.5	18,389.0
2014	6,628.1	6,804.3	6,994.1	11,198.6	11,491.1	11,805.4	17,826.7	18,295.4	18,799.5
2015	6,693.9	6,894.4	7,112.3	11,372.7	11,708.2	12,072.2	18,066.7	18,602.5	19,184.5
2016	6,752.9	6,979.0	7,227.0	11,581.4	11,963.8	12,382.6	18,334.4	18,942.8	19,609.6
2017	6,795.8	7,048.3	7,327.9	11,666.0	12,094.3	12,567.4	18,461.8	19,142.6	19,895.3
2018	6,834.6	7,113.9	7,425.8	11,784.2	12,260.7	12,791.9	18,618.9	19,374.6	20,217.6
2019	6,887.7	7,195.6	7,542.3	11,921.4	12,449.0	13,041.9	18,809.1	19,644.5	20,584.2
2020	6,936.8	7,274.6	7,657.8	12,111.4	12,695.3	13,356.6	19,048.3	19,969.9	21,014.4
2021	6,961.5	7,329.1	7,749.2	12,138.6	12,774.0	13,498.8	19,100.1	20,103.1	21,248.0
2022	6,974.9	7,373.1	7,831.2	12,203.7	12,894.5	13,687.7	19,178.6	20,267.6	21,519.0
2023	6,989.2	7,419.4	7,917.5	12,258.3	13,006.8	13,871.7	19,247.5	20,426.2	21,789.3
2024	7,025.9	7,490.9	8,032.5	12,405.3	13,219.5	14,166.0	19,431.1	20,710.3	22,198.5
2025	7,059.9	7,561.1	8,148.3	12,443.3	13,319.9	14,344.7	19,503.1	20,881.0	22,493.0
2026	7,087.3	7,625.7	8,259.9	12,524.0	13,468.0	14,577.7	19,611.3	21,093.7	22,837.5
2027	7,115.8	7,692.7	8,376.0	12,598.6	13,612.6	14,810.8	19,714.4	21,305.3	23,186.8
2028	7,150.7	7,768.0	8,503.0	12,740.1	13,831.7	15,128.3	19,890.8	21,599.7	23,631.2
2029	7,176.0	7,834.9	8,623.3	12,755.5	13,918.4	15,306.6	19,931.5	21,753.3	23,929.9
2030	7,184.4	7,884.8	8,727.1	12,790.3	14,028.8	15,514.5	19,974.7	21,913.6	24,241.6
90-'06	2.2%	2.2%	2.2%	2.6%	2.6%	2.6%	2.5%	2.5%	2.5%
07-'10	1.2%	1.6%	1.9%	1.7%	2.1%	2.5%	1.5%	1.9%	2.3%
10-'15	1.0%	1.4%	1.7%	1.6%	1.9%	2.3%	1.4%	1.7%	2.1%
15-'20	0.7%	1.1%	1.5%	1.3%	1.6%	2.0%	1.1%	1.4%	1.8%
20-'25	0.4%	0.8%	1.2%	0.5%	1.0%	1.4%	0.5%	0.9%	1.4%
25-'30	0.4%	0.8%	1.4%	0.6%	1.0%	1.6%	0.5%	1.0%	1.5%
07-'30	0.7%	1.1%	1.5%	1.1%	1.5%	1.9%	0.9%	1.3%	1.8%

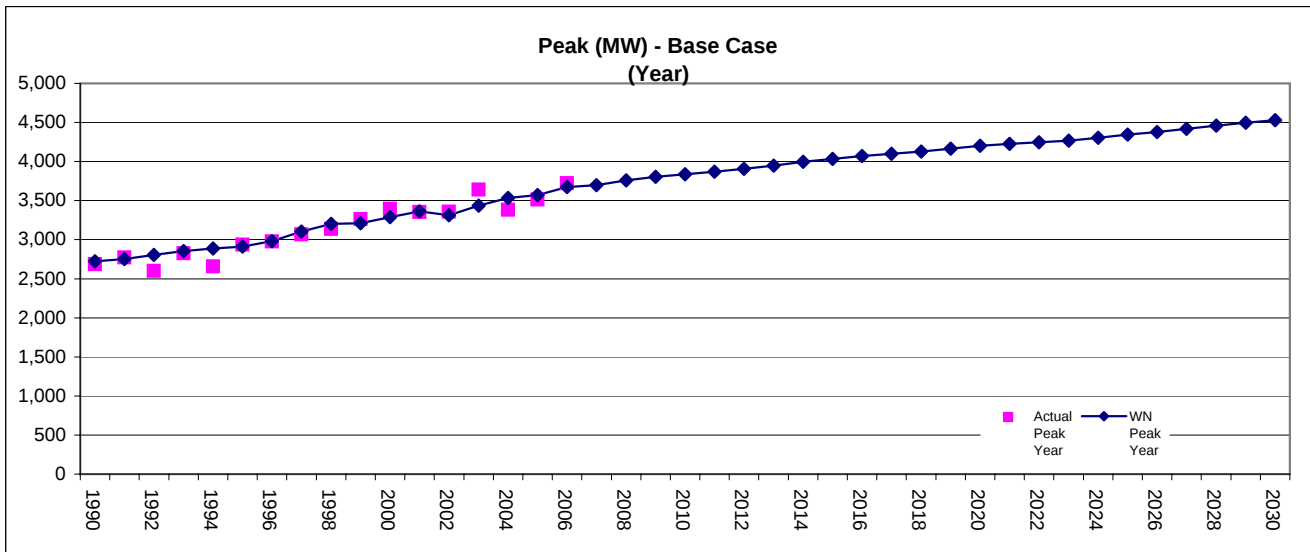
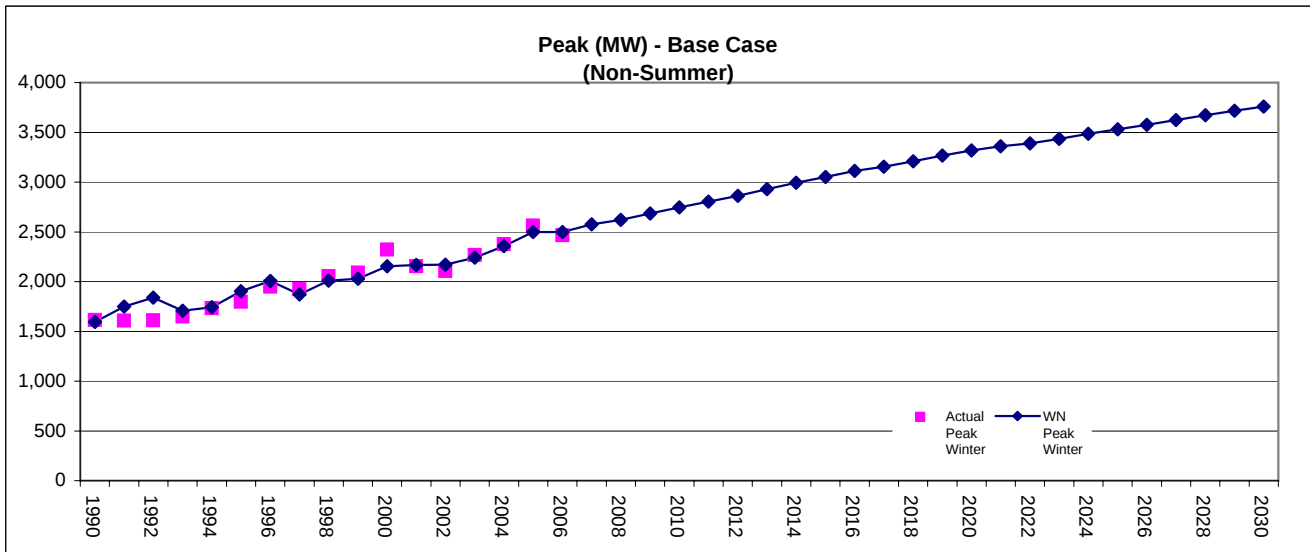
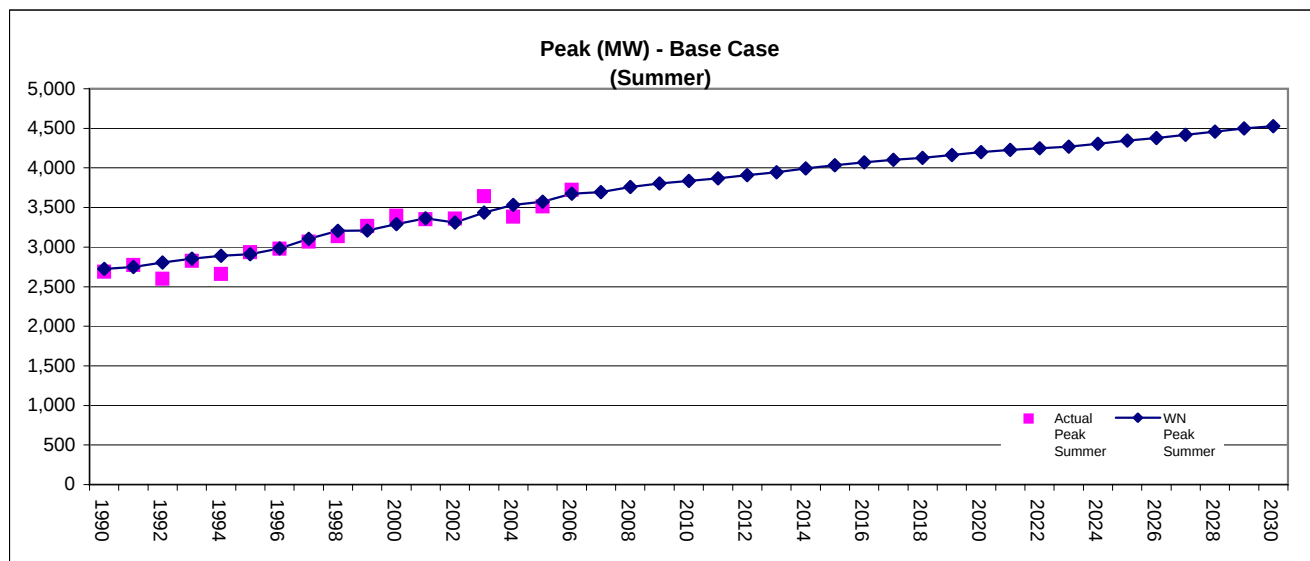
Note: Energy MWH (NSI) Includes annual system losses



Plot K-3 KCP&L 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	2,687	2,723	1,615	1,595	2,687	2,723
1991	2,772	2,750	1,609	1,749	2,772	2,750
1992	2,600	2,807	1,611	1,839	2,600	2,807
1993	2,825	2,853	1,648	1,706	2,825	2,853
1994	2,658	2,889	1,734	1,743	2,658	2,889
1995	2,935	2,910	1,799	1,905	2,935	2,910
1996	2,977	2,983	1,947	2,007	2,977	2,983
1997	3,069	3,104	1,927	1,873	3,069	3,104
1998	3,136	3,204	2,054	2,010	3,136	3,204
1999	3,264	3,209	2,090	2,028	3,264	3,209
2000	3,394	3,290	2,320	2,153	3,394	3,290
2001	3,352	3,361	2,153	2,168	3,352	3,361
2002	3,358	3,311	2,105	2,172	3,358	3,311
2003	3,640	3,436	2,268	2,242	3,640	3,436
2004	3,384	3,532	2,376	2,357	3,384	3,532
2005	3,512	3,572	2,563	2,499	3,512	3,572
2006	3,721	3,673	2,467	2,498	3,721	3,673
2007		3,696		2,576		3,696
2008		3,759		2,620		3,759
2009		3,803		2,684		3,803
2010		3,837		2,745		3,837
2011		3,870		2,803		3,870
2012		3,907		2,862		3,907
2013		3,947		2,928		3,947
2014		3,995		2,994		3,995
2015		4,034		3,051		4,034
2016		4,071		3,111		4,071
2017		4,101		3,156		4,101
2018		4,127		3,209		4,127
2019		4,165		3,267		4,165
2020		4,201		3,317		4,201
2021		4,227		3,360		4,227
2022		4,248		3,390		4,248
2023		4,269		3,433		4,269
2024		4,305		3,485		4,305
2025		4,345		3,532		4,345
2026		4,379		3,576		4,379
2027		4,417		3,623		4,417
2028		4,458		3,673		4,458
2029		4,497		3,717		4,497
2030		4,529		3,758		4,529
90-'06	2.1%	1.9%	2.7%	2.8%	2.1%	1.9%
07-'10		1.3%		2.1%		1.3%
10-'15		1.0%		2.1%		1.0%
15-'20		0.8%		1.7%		0.8%
20-'25		0.7%		1.3%		0.7%
25-'30		0.8%		1.3%		0.8%
07-'30		0.9%		1.7%		0.9%

Note: Summer peak is weather normalized to 100 degrees



Plot K-4 KCP&L 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	2,723	2,723	2,723	1,595	1,595	1,595	2,723	2,723	2,723
1991	2,750	2,750	2,750	1,749	1,749	1,749	2,750	2,750	2,750
1992	2,807	2,807	2,807	1,839	1,839	1,839	2,807	2,807	2,807
1993	2,853	2,853	2,853	1,706	1,706	1,706	2,853	2,853	2,853
1994	2,889	2,889	2,889	1,743	1,743	1,743	2,889	2,889	2,889
1995	2,910	2,910	2,910	1,905	1,905	1,905	2,910	2,910	2,910
1996	2,983	2,983	2,983	2,007	2,007	2,007	2,983	2,983	2,983
1997	3,104	3,104	3,104	1,873	1,873	1,873	3,104	3,104	3,104
1998	3,204	3,204	3,204	2,010	2,010	2,010	3,204	3,204	3,204
1999	3,209	3,209	3,209	2,028	2,028	2,028	3,209	3,209	3,209
2000	3,290	3,290	3,290	2,153	2,153	2,153	3,290	3,290	3,290
2001	3,361	3,361	3,361	2,168	2,168	2,168	3,361	3,361	3,361
2002	3,311	3,311	3,311	2,172	2,172	2,172	3,311	3,311	3,311
2003	3,436	3,436	3,436	2,242	2,242	2,242	3,436	3,436	3,436
2004	3,532	3,532	3,532	2,357	2,357	2,357	3,532	3,532	3,532
2005	3,572	3,572	3,572	2,499	2,499	2,499	3,572	3,572	3,572
2006	3,673	3,673	3,673	2,498	2,498	2,498	3,673	3,673	3,673
2007	3,696	3,696	3,696	2,577	2,576	2,576	3,696	3,696	3,696
2008	3,747	3,759	3,772	2,612	2,620	2,629	3,747	3,759	3,772
2009	3,779	3,803	3,827	2,667	2,684	2,700	3,779	3,803	3,827
2010	3,803	3,837	3,873	2,721	2,745	2,771	3,803	3,837	3,873
2011	3,824	3,870	3,918	2,771	2,803	2,837	3,824	3,870	3,918
2012	3,850	3,907	3,967	2,821	2,862	2,905	3,850	3,907	3,967
2013	3,879	3,947	4,019	2,879	2,928	2,981	3,879	3,947	4,019
2014	3,915	3,995	4,081	2,935	2,994	3,057	3,915	3,995	4,081
2015	3,942	4,034	4,134	2,982	3,051	3,126	3,942	4,034	4,134
2016	3,965	4,071	4,186	3,032	3,111	3,199	3,965	4,071	4,186
2017	3,982	4,101	4,232	3,065	3,156	3,256	3,982	4,101	4,232
2018	3,995	4,127	4,275	3,107	3,209	3,323	3,995	4,127	4,275
2019	4,018	4,165	4,330	3,152	3,267	3,395	4,018	4,165	4,330
2020	4,038	4,201	4,385	3,190	3,317	3,461	4,038	4,201	4,385
2021	4,049	4,227	4,430	3,219	3,360	3,520	4,049	4,227	4,430
2022	4,053	4,248	4,470	3,236	3,390	3,566	4,053	4,248	4,470
2023	4,057	4,269	4,512	3,264	3,433	3,626	4,057	4,269	4,512
2024	4,075	4,305	4,571	3,300	3,485	3,697	4,075	4,305	4,571
2025	4,095	4,345	4,634	3,331	3,532	3,764	4,095	4,345	4,634
2026	4,109	4,379	4,693	3,358	3,576	3,829	4,109	4,379	4,693
2027	4,127	4,417	4,756	3,388	3,623	3,899	4,127	4,417	4,756
2028	4,147	4,458	4,825	3,419	3,673	3,974	4,147	4,458	4,825
2029	4,163	4,497	4,892	3,444	3,717	4,044	4,163	4,497	4,892
2030	4,172	4,529	4,952	3,465	3,758	4,113	4,172	4,529	4,952
90-'06	1.9%	1.9%	1.9%	2.8%	2.8%	2.8%	1.9%	1.9%	1.9%
07-'10	1.0%	1.3%	1.6%	1.8%	2.1%	2.5%	1.0%	1.3%	1.6%
10-'15	0.7%	1.0%	1.3%	1.8%	2.1%	2.4%	0.7%	1.0%	1.3%
15-'20	0.5%	0.8%	1.2%	1.4%	1.7%	2.1%	0.5%	0.8%	1.2%
20-'25	0.3%	0.7%	1.1%	0.9%	1.3%	1.7%	0.3%	0.7%	1.1%
25-'30	0.4%	0.8%	1.3%	0.8%	1.3%	1.8%	0.4%	0.8%	1.3%
07-'30	0.5%	0.9%	1.3%	1.3%	1.7%	2.1%	0.5%	0.9%	1.3%

Note: Summer peak is weather normalized to 100 degrees

