Table 7a. Natural Gas Price, Electric Power Sector, Actual vs. Projected

Projected Price in Constant Dollars

(constant dollars per million Btu in "dollar year" specific to each AEO)

AEO 1996	5 2006	2005	2005	05 2006	2006	2007	2008	2009	2010	2011	2012	201
AEC 1996	1 3.60	2.54	2.54	E4 2.00	2.00	3.77	3.91	3.97	4.08			
RED 1998						3.53	3.61	3.68				
RED 1997 1995 242 2.18 2.19 2.19 2.19 2.19 2.22 2.25 2.27 2.29 2.25 2.27 2.28 2.25 2.27 2.28 2.25 2.27 2.28 2.25 2.27 2.28 2.25						2.30	2.33	2.40			2.63	2.7
ECO 1998 1996 2,67 2,43 2,48 2,58 2,55 2,55 2,60 2,63 2,56 2,60 2,6						2.30	2.33	2.40			2.83	2.3
REO 1999 1997						2.73	2.77	2.81			2.90	2.9
AEC 2000 1998						3.03	3.04	3.06		3.10	3.11	3.1
AEC 2010												
AEC 2002 2000						2.95	3.01	3.05			3.14	3.1
AEO 2003 2001						2.93	2.96	2.99		3.06	3.09	3.1
AEO 2004 2002						3.26	3.31	3.34			3.52 3.98	3.5 4.0
AEC 2005 2004 5.92 5.92 5.92 5.92 5.92 5.92 5.93 7.84								3.62				
AEO 2006 2004						4.14 4.83	4.23	4.11		4.19 4.31	4.36 4.41	4.5
AEO 2007 2005 6 AEO 2008 2006 AEO 2010 2008 AEO 2010 2008 AEO 2011 2009 AEO 2013 2011 AEO 2013 2011 AEO 2014 2012 AEO 2013 2011 AEO 2014 2015 AEO 2016 2016 AEO 2016 2016 AEO 2018 2016 AEO 2018 2016 AEO 2018 2016 AEO 2018 2016 AEO 2019 2010 AEO 2014 2016 AEO 2018 2016 AEO 2018 2016 AEO 2018 2016 AEO 2018 2016 AEO 2019 2016 AEO 2018 2016 AEO 2019 2016 AEO 2018 2018 AEO 2019 2018 2019 AEO 2018 2018 AEO 2019 2018 2019 AEO 2018 2018 2019 AEO 2018 2018 2019 AEO 2018 2018 2019 AEO 1994 4.3 13.7 35.8 7.5 7.4 299 23.0 22.6 21.7 3.5 28.3 30.6 46.0 3.3 2.0 48.0												
AEO 2008 2008 AEO 2010 2009 AEO 2011 2009 AEO 2012 2010 AEO 2014 2012 ACUAL In Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Acual in Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Acual in Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Acual in Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Acual in Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Acual in Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Acual in Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Acual in Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Acual in Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Acual in Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Acual in Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Acual in Nominal\$ 2.61 2.28 2.02 2.02 2.02 2.02 2.02 2.02 2.02		8.09	8.09			6.54	6.22	5.77			5.24	5.3
AEO 2009 2007 AEO 2010 2008 AEO 2011 2009 AEO 2012 2010 AEO 2013 2011 AEO 2014 2012 ACTUAL IN Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Average Absolute 0.11 0.23 0.43 0.25 0.29 0.20 0.20 1.36 1.29 0.62 1.96 2.14 3.67 2. Projected vs. Actual (percent difference) 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 20 AEO 1994 4.3 13.7 35.8 7.5 7.4 29.9 23.0 -22.6 -21.7 3.5 -28.3 -30.6 446.0 -3. AEO 1996 7.1 28.0 -4.5 -4.8 11.4 7.0 -33.0 -30.1 -6.9 -33.2 -34.6 -49.2 -3. AEO 1996 8.3.2 -19.0 -21.9 -2.8 -9.4 -4.5 -4.6 630.5 -53.0 -55.7 -66.8 -5. AEO 1998 8.2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	6.97			6.97	6.97	7.12	7.07	6.53			5.69	5.5
AEO 2010 2008 AEO 2011 2009 AEO 2013 2011 AEO 2013 2011 AEO 2014 2012 Actual in Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Actual in Nominal\$ 2.61 2.28 2.02 2.69 1.90 2.00 0.20 1.36 1.29 0.62 1.96 2.14 3.67 2. Projected vs. Actual (percent difference) 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 20 AEO 1994 4.3 13.7 35.8 7.5 7.4 29.9 23.0 -22.6 -21.7 3.5 -28.3 -30.6 446.0 -3.3 AEO 1995 7.1 28.0 4.5 -4.8 11.4 7.0 -33.0 -30.1 -6.9 -33.2 -34.6 49.2 -3.4 AEO 1996 7.1 28.0 4.5 -4.8 11.4 7.0 -33.0 -30.1 -6.9 -33.2 -34.6 49.2 -3.4 AEO 1996 7.1 28.0 4.5 -4.8 11.4 7.0 -4.3 1.3 4.4 4.5 4.5 5.0 5.5 5.3 0.5 5.5 0.67.1 -5.8 AEO 1999 7.1 2.0 2.0 3.0 -2.8 -9.4 -4.4 5.4 5.5 -9.5 3.5 5.6 0.67.1 -5.8 AEO 1998 7.1 2.0 2.0 3.0 -2.0 3.0 -2.0 3.0 -2.0 -2.1 -2.0 3.0 5.5 7.6 6.8 4.5 AEO 1999 7.1 2.0 2.0 3.0 -2.0 -2.0 -2.0 -2.0 -2.0 -2.0 -2.0 -2						6.90	7.24	7.40			6.49	6.2
AEO 2011 2009 AEO 2012 2010 AEO 2013 2011 AEO 2014 2012 Actual in Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Average Absolute Difference 0.11 0.23 0.43 0.25 0.29 0.20 0.20 1.36 1.29 0.62 1.96 2.14 3.67 2. Projected vs. Actual (percent difference) 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 20 AEO 1994 4.3 13.7 35.8 7.5 7.4 29.9 23.0 -22.6 -21.7 3.5 -28.3 30.6 -46.0 -3. AEO 1995 7.1 28.0 -4.5 -4.8 11.4 7.0 -33.0 -30.1 -6.9 -33.2 -34.6 -49.2 -3.1 AEO 1996 3.2 19.0 -21.9 -2.8 -9.4 -44.5 -45.6 -30.5 -53.0 -55.7 -66.8 -5 AEO 1997 8.4 -18.7 -4.9 -11.3 -45.7 -47.3 -32.0 -53.5 -56.0 -67.1 -50 AEO 1998 -2.4 4.2 -3.1 -39.5 -40.0 -23.1 -48.1 -50.6 -62.8 -56. AEO 1999 -2.4 -2.4 -2.3 -33.5 -40.0 -23.1 -48.1 -50.6 -62.8 -56. AEO 2000 -2.5 -2.6 -2.6 -4.4 -4.4 -4.5 -4.5 -4.5 -4.5 -4.5 -4.5							8.87	4.56			5.52	5.5
AEO 2012 2010 AEO 2013 2011 AEO 2014 2012 Actual in Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Average Absolute Difference 0.11 0.23 0.43 0.25 0.29 0.20 0.20 1.36 1.29 0.62 1.96 2.14 3.67 2. Projected vs. Actual (percent difference) 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 20 AEO 1994 4.3 13.7 35.8 7.5 7.4 29.9 23.0 22.6 21.7 3.5 28.3 30.6 46.0 3.3 AEO 1995 7.1 28.0 4.5 4.8 11.4 7.0 33.0 -30.1 6.9 33.2 34.6 49.2 3.3 AEO 1996 3.2 19.0 22.9 2.8 9.4 44.5 45.6 30.5 5.50 55.0 55.7 66.8 5.4 AEO 1997 4.8 18.7 4.9 11.3 45.7 44.7 3 32.0 55.5 56.0 67.1 58. AEO 1998 5.9 1.9 2.0 37.1 37.7 18.8 44.1 46.4 59.1 48. AEO 2000 5.9 1.9 2.0 37.1 37.7 18.8 44.1 46.4 59.1 48. AEO 2000 4.8 1.9 2.0 37.1 37.7 18.8 44.1 46.4 59.1 48. AEO 2000 4.8 1.9 2.0 37.1 37.7 18.8 44.1 46.4 59.1 48. AEO 2000 5.9 1.9 2.0 4.0 22.3 44.4 44.4 57.6 48. AEO 2000 4.8 2.0 4.4 44.4 57.6 48. AEO 2000 5.9 1.9 4.6 3.0 4.								4.14			6.17	5.9
AEO 2013 2011 AEO 2014 2012 Actual in Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Actual in Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Actual in Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Actual in Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Projected vs. Actual (percent difference) 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 20 AEO 1994 4.3 13.7 35.8 7.5 7.4 29.9 23.0 -22.6 -21.7 3.5 -28.3 -30.6 46.0 -3. AEO 1996 7.1 28.0 4.5 4.8 11.4 7.0 -33.0 -30.1 -6.9 -33.2 -34.6 49.2 -3. AEO 1996 3.2 19.0 -21.9 -2.8 -9.4 -44.5 -45.6 -30.5 5.30 -55.7 -66.8 -56. AEO 1997									5.07		4.65	4.6
AEC 2014 2012 Actual in Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Average Absolute Difference 0.11 0.23 0.43 0.25 0.29 0.20 0.20 1.36 1.29 0.62 1.96 2.14 3.67 2. Projected vs. Actual (percent difference) 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 20 AEC 1994 4.3 13.7 35.8 7.5 7.4 29.9 23.0 -22.6 -21.7 3.5 -28.3 -30.6 4.6.0 -3. AEC 1996 7.1 28.0 -4.5 -4.8 11.4 7.0 -33.0 -30.1 -6.9 33.2 -34.6 49.2 -3. AEC 1996 9.2 -1.9 -2.8 -9.4 -4.5 -4.5 -4.5 -3.0.5 -5.3.0 -5.5.7 -6.8 -4. AEC 1998 9.2 -1.9 -2.8 -9.4 -4.5 -4.5 -3.0.5 -5.3.0 -5.5.7 -6.8 -4. AEC 1998 9.2 -1.9 -2.8 -9.1 -1.1 -4.5 -4.5 -3.0.5 -5.3.0 -5.5 -6.0 -6.7.1 -5. AEC 1999 9.3 -1.4 -4.5 -4.5 -4.5 -4.5 -4.5 -4.5 -4.5 -4										4.66	4.35	4.4
Actual in Nominal\$ 2.61 2.28 2.02 2.69 2.78 2.40 2.62 4.38 4.61 3.68 5.57 6.11 8.47 7. Average Absolute 0.11 0.23 0.43 0.25 0.29 0.20 0.20 1.36 1.29 0.62 1.96 2.14 3.67 2. Projected vs. Actual (percent difference) 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 20 AEC 1994 4.3 13.7 35.8 7.5 7.4 29.9 23.0 -22.6 -21.7 3.5 -28.3 -30.6 46.0 -33. AEC 1995 7.1 28.0 4.5 4.8 11.4 7.0 33.0 30.1 6.9 -33.2 -34.6 49.2 -33. AEC 1996 3.2 19.0 -21.9 -2.8 9.4 44.5 45.6 30.5 53.0 -55.7 66.8 -55. AEC 1998 4.4 18.7 4.9 11.3 45.7 47.3 32.0 -53.5 56.0 67.1 56. AEC 1998 5.4 18.7 4.9 11.3 45.7 47.3 32.0 53.5 56.0 67.1 56. AEC 1998 5.4 18.7 4.9 11.3 45.7 47.3 32.0 53.5 56.0 67.1 56. AEC 1998 5.4 18.7 4.9 11.3 45.7 47.3 32.0 53.5 56.0 67.1 56. AEC 1998 6.4 18.7 4.9 11.3 45.7 47.3 32.0 53.5 56.0 67.1 56. AEC 1998 6.4 18.7 4.9 11.3 45.7 47.3 32.0 53.5 56.0 67.1 56. AEC 1998 6.4 18.7 4.9 11.3 45.7 47.3 32.0 53.5 56.0 67.1 56. AEC 1998 6.4 18.7 4.9 11.3 45.7 47.3 32.0 53.5 56.0 67.1 56. AEC 2000 7.8 8.8 13.9 5.5 41.8 44.1 46.4 59.1 44. AEC 2000 6.4 15.2 36.5 44.4 44.4 57.6 44. AEC 2000 8.4 15.2 36.5 44.7 57.6 44. AEC 2001 4.4 2.4 15.7 57.6 44. AEC 2011 4.4 2.4 57.6 57.6 57.6 57.6 57.6 44. AEC 2011 4.4 2.4 57.6 57.6 57.6 57.6 57.6 57.6 57.6 57.6											3.32	3.7
Average Absolute Difference Difference Oil 0.21 0.23 0.43 0.25 0.29 0.20 0.20 1.36 1.29 0.62 1.96 2.14 3.67 2.20 Projected vs. Actual (percent difference) 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 20 AEC 1994 4.3 13.7 35.8 7.5 7.4 29.9 23.0 -22.6 -21.7 3.5 -28.3 -30.6 46.0 -33. AEC 1995 7.1 28.0 4.5 4.8 11.4 7.0 -33.0 -30.1 -6.9 -33.2 -34.6 49.2 -33. AEC 1996 3.2 -19.0 -21.9 -2.8 -9.4 44.5 -45.6 -30.5 -53.0 -55.7 -66.8 -55. AEC 1997 8.8 -18.7 -4.9 -11.3 -45.7 -47.3 -32.0 -32.5 -55.0 -67.1 -55. AEC 1998 -2.4 42 -3.1 -39.5 40.0 -23.1 -48.1 -50.6 -62.8 -55. AEC 1998 -2.4 42 -3.1 -39.5 40.0 -23.1 -48.1 -50.6 -62.8 -55. AEC 1999 9.1 -3.8 -38.5 -40.4 -23.3 -47.8 -44.7 -61.6 -55. AEC 2000 -3.8 -38.5 -40.4 -23.3 -47.8 -47.7 -61.6 -55. AEC 2000 -4.5 -4.5 -4.5 -4.5 -4.5 -4.5 -4.5 -4.5												4.3
Difference 0.11 0.23 0.43 0.25 0.29 0.20 0.20 1.36 1.29 0.02 1.96 2.14 3.07 2 Projected vs. Actual (percent difference) 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 20 AEO 1994 -4.3 13.7 35.8 7.5 7.4 29.9 23.0 -22.6 -21.7 3.5 -28.3 -30.6 -46.0 -33. AEO 1995 7.1 28.0 -4.5 -4.8 11.4 7.0 -33.0 -30.1 -6.9 -33.2 -34.6 -49.2 -33. AEO 1996 3.2 -19.0 -21.9 -2.8 -9.4 +4.5 -45.6 -30.5 -53.0 -55.7 -66.8 -55. AEO 19978.4 -18.7 -4.9 -11.3 -45.7 -47.3 -32.0 -53.5 -56.0 -67.1 -55. AEO 1999 1.9 2.0 -37.1 -37.7 -18.8 -44.1 -46.4 -59.1 -44. AEO 2000	7 7.11	8.47	8.47	47 7.11	7.11	7.31	9.26	4.93	5.27	4.89	3.54	4.4
Projected vs. Actual (percent difference) 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 20 AEC 1994 4.3 13.7 35.8 7.5 7.4 29.9 23.0 -22.6 -21.7 3.5 -28.3 -30.6 -46.0 -3.3 -3.6 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0	7 2.32	3.67	3.67	67 2.32	2.32	2.15	3.37	0.90	0.81	0.74	1.43	0.9
AEO 1995 7.1 28.0 4.5 4.8 11.4 7.0 -33.0 -30.1 -6.9 -33.2 -34.6 49.2 -33.4 AEO 1996 3.2 -19.0 -21.9 -2.8 -9.4 -44.5 -45.6 -30.5 -53.0 -55.7 -66.8 -55.4 AEO 1997 -8.4 -18.7 -4.9 -11.3 -45.7 -47.3 -32.0 -53.5 -56.0 -67.1 -55.4 AEO 1998 -2.4 42 -3.1 -39.5 -40.0 -23.1 -48.1 -50.6 -62.8 -55.4 AEO 1999 -19.9 -2.8 -3.8 -38.5 -40.4 -23.3 -47.8 -49.7 -61.6 -5.4 AEO 2000 -3.8 -38.5 -40.4 -23.3 -47.8 -49.7 -61.6 -5.4 AEO 2001 -8.8 -13.9 -5.5 -41.8 -47.6 -60.9 -5.4 AEO 2002 -2.6 -26.9 -44.4 -44.4 -57.6 -43.4 AEO 2004 -23.6 -25.9 -41.4 -44.4 -57.6 -43.4 AEO 2005 -22.8 -46.6 -33.4 AEO 2006 -22.9 -41.4 -44.4 -45.4 -45.4 AEO 2007 -45.4 AEO 2008 AEO 2010 -45.4 AEO 2011 -45.4 AEO 2012 -45.0 AEO 2013 -45.0 AEO 2013 -45.0 AEO 2013 -45.0 AEO 2012 -45.0 AEO 2013 -45.0 AEO 2012 -45.0 AEO 2012 -45.0 AEO 2012 -45.0 AEO 2013	5 2006	2005										
AEC 1995 7.1 28.0 -4.5 -4.8 11.4 7.0 -33.0 -30.1 -6.9 -33.2 -34.6 -49.2 -33.4 AEC 1996 3.2 -19.0 -21.9 -2.8 -9.4 -44.5 -45.6 -30.5 -53.0 -55.7 -66.8 -55.4 AEC 1997 -8.4 -18.7 -4.9 -11.3 -45.7 -47.3 -32.0 -53.5 -56.0 -67.1 -55.4 AEC 1998 -2.4 42 -3.1 -39.5 -40.0 -23.1 -48.1 -50.6 -62.8 -55.4 AEC 1999 -1.9 -2.0 -37.1 -37.7 -18.8 -44.1 -46.4 -59.1 -47.4 AEC 2000 -33.8 -38.5 -40.4 -23.3 -47.8 -49.7 -61.6 -5.4 AEC 2001 -8.8 -13.9 -5.5 -41.8 -47.6 -60.9 -5.4 AEC 2002 -2.6 -26.9 -44.4 -44.4 -57.6 -47.4 AEC 2003 -15.2 -36.5 -42.7 -57.6 -47.4 AEC 2004 -2.6 -26.9 -44.4 -44.4 -57.6 -47.4 AEC 2005 -47.4 AEC 2006 -47.4 AEC 2006 -47.4 AEC 2007 -47.4 AEC 2007 -47.4 AEC 2007 -47.4 AEC 2008 AEC 2009 -47.4 AEC 2007 -47.4 AEC 2008 AEC 2009 -47.4 AEC 2011 -47.4 AEC 2012 AEC 2012 AEC 2011 -47.4 AEC 2012 AEC 2013 -47.4 AEC 2013 -47.4 AEC 2013 -47.4 AEC 2013 -47.4 AEC 2014 -47.4 AEC 2015 -			2005	5 2006	2006	2007	2008	2009	2010	2011	2012	201
AEC 1996 3.2 -19.0 -21.9 -2.8 -9.4 -44.5 -45.6 -30.5 -53.0 -55.7 -66.8 -55. AEC 1997 -8.4 -18.7 -4.9 -11.3 -45.7 -47.3 -32.0 -53.5 -56.0 -67.1 -55. AEC 1998 -2.4 -423.1 -39.5 -40.0 -23.1 -48.1 -50.6 -62.8 -55. AEC 1999 -19.9 -2.0 -37.1 -37.7 -18.8 -44.1 -46.4 -59.1 -44. AEC 2000 -3.8 -38.5 -40.4 -23.3 -47.8 -49.7 -61.6 -55. AEC 2001 -8.8 -13.9 -5.5 -41.8 -47.6 -60.9 -55. AEC 2002 -2.6 -26.9 -44.4 -44.4 -57.6 -44. AEC 2003 -15.2 -36.5 -42.7 -57.6 -44. AEC 2004 -20.0 -3.8 -30.0 -22.8 -46.6 -33.0 -22.8 -46.6 -33.0 -22.8 -46.6 -33.0 -22.8 -46.0 -33.0 -2	0 22.0	46.0									2012	201
AEO 1997			-46.0	5.0 -32.0	-32.0	-28.9	-40.6	14.1	11.0		2012	201
AEC 1998	2 -36.0	-49.2	-46.0 -49.2	6.0 -32.0 0.2 -36.0	-32.0 -36.0	-28.9 -34.9	-40.6 -46.4	14.1 3.3	11.0 3 -0.8			
AEO 2000	2 -36.0 8 -59.1	-49.2 -66.8	-46.0 -49.2 -66.8	5.0 -32.0 9.2 -36.0 5.8 -59.1	-32.0 -36.0 -59.1	-28.9 -34.9 -58.5	-40.6 -46.4 -66.1	14.1 3.3 -34.2	11.0 -0.8 ! -36.5	-27.5	5.8	-12
AEC 2000	2 -36.0 8 -59.1 1 -59.5	-49.2 -66.8 -67.1	-46.0 -49.2 -66.8 -67.1	5.0 -32.0 0.2 -36.0 5.8 -59.1 1.1 -59.5	-32.0 -36.0 -59.1 -59.5	-28.9 -34.9 -58.5 -59.1	-40.6 -46.4 -66.1 -66.9	14.1 3.3 -34.2 -37.0	11.0 3 -0.8 2 -36.5 0 -40.7	-27.5 -34.3	5.8 -6.8	-12 -25
AEO 2001	2 -36.0 8 -59.1 1 -59.5 8 -53.5	-49.2 -66.8 -67.1 -62.8	-46.0 -49.2 -66.8 -67.1 -62.8	5.0 -32.0 9.2 -36.0 5.8 -59.1 7.1 -59.5 8.8 -53.5	-32.0 -36.0 -59.1 -59.5 -53.5	-28.9 -34.9 -58.5 -59.1 -52.6	-40.6 -46.4 -66.1 -66.9	14.1 3.3 -34.2 -37.0 -25.6	11.0 -0.8 -36.5 -40.7 -28.8	-27.5 -34.3 -20.5	5.8 -6.8 12.5	-12 -25 -9
AEO 2002 -2.6 -26.9 -44.4 -44.4 -57.6 -47 AEO 2003 -15.2 -36.5 -42.7 -57.6 -47 AEO 2004 3.0 -22.8 -46.6 -33 AEO 2005 -0.6 -25.9 -11 AEO 2006 -1.4 -1.4 -1.4 -1.4 -1.4 -1.4 -1.4 -1.4	2 -36.0 8 -59.1 1 -59.5 8 -53.5 1 -48.8	-49.2 -66.8 -67.1 -62.8 -59.1	-46.0 -49.2 -66.8 -67.1 -62.8 -59.1	6.0 -32.0 6.2 -36.0 6.8 -59.1 7.1 -59.5 6.8 -53.5 6.1 -48.8	-32.0 -36.0 -59.1 -59.5 -53.5	-28.9 -34.9 -58.5 -59.1 -52.6 -48.3	-40.6 -46.4 -66.1 -66.9 -61.2	14.1 3.3 -34.2 -37.0 -25.6 -20.5	11.0 -0.8 -36.5 -40.7 -28.8 -24.2	-27.5 -34.3 -20.5 -16.1	5.8 -6.8 12.5 18.3	-12 -25 -9 -5
AEO 2003 -15.2 -36.5 -42.7 -57.6 -44 AEO 2004 3.0 -22.8 -46.6 -33 AEO 2005 0.6 -25.9 -11 AEO 2006 -1.4 -1 AEO 2007 AEO 2008 AEO 2008 AEO 2010 AEO 2011 AEO 2012 AEO 2013	2 -36.0 8 -59.1 1 -59.5 8 -53.5 1 -48.8 6 -51.3	-49.2 -66.8 -67.1 -62.8 -59.1 -61.6	-46.0 -49.2 -66.8 -67.1 -62.8 -59.1	3.0 -32.0 3.2 -36.0 5.8 -59.1 7.1 -59.5 1.8 -53.5 1.1 -48.8	-32.0 -36.0 -59.1 -59.5 -53.5 -48.8 -51.3	-28.9 -34.9 -58.5 -59.1 -52.6 -48.3 -50.1	-40.6 -46.4 -66.1 -66.9 -61.2 -58.2 -59.1	14.1 3.3 -34.2 -37.0 -25.6 -20.5 -21.6	11.0 -0.8 -36.5 -40.7 -28.8 -24.2 -25.1	-27.5 -34.3 -20.5 -16.1 -16.8	5.8 -6.8 12.5 18.3 18.1	-12 -25 -9 -5
AEC 2004 3.0 -22.8 -46.6 -33 AEC 2005 0.6 -25.9 -11 AEC 2006 -1.4 -1.4 -1.4 AEC 2007 AEC 2008 AEC 2009 AEC 2010 AEC 2011 AEC 2012 AEC 2012 AEC 2013	2 -36.0 8 -59.1 1 -59.5 8 -53.5 1 -48.8 6 -51.3 9 -51.5	-49.2 -66.8 -67.1 -62.8 -59.1 -61.6 -60.9	-46.0 -49.2 -66.8 -67.1 -62.8 -59.1 -61.6 -60.9	3.0 -32.0 3.2 -36.0 5.8 -59.1 7.1 -59.5 3.8 -53.5 3.1 -48.8 6 -51.3	-32.0 -36.0 -59.1 -59.5 -53.5 -48.8 -51.3	-28.9 -34.9 -58.5 -59.1 -52.6 -48.3 -50.1 -51.3	-40.6 -46.4 -66.1 -66.9 -61.2 -58.2 -59.1 -60.3	14.1 3.3 -34.2 -37.0 -25.6 -20.5 -21.6 -24.2	11.0 3 -0.8 2 -36.5 3 -40.7 6 -28.8 6 -24.2 6 -25.1 2 -27.4	-27.5 -34.3 -20.5 -16.1 -16.8 -19.3	5.8 -6.8 12.5 18.3 18.1 14.8	-12 -25 -9 -5 -4
AEC 2005	2 -36.0 8 -59.1 1 -59.5 8 -53.5 1 -48.8 6 -51.3 9 -51.5 6 -47.5	-49.2 -66.8 -67.1 -62.8 -59.1 -61.6 -60.9	-46.0 -49.2 -66.8 -67.1 -62.8 -59.1 -61.6 -60.9	6.0 -32.0 6.2 -36.0 6.8 -59.1 7.1 -59.5 6.8 -53.5 6.1 -48.8 6.6 -51.3 6.9 -51.5	-32.0 -36.0 -59.1 -59.5 -53.5 -48.8 -51.3 -51.5	-28.9 -34.9 -58.5 -59.1 -52.6 -48.3 -50.1 -51.3 -47.0	-40.6 -46.4 -66.1 -66.9 -61.2 -58.2 -59.1 -60.3	14.1 3.3 -34.2 -37.0 -25.6 -20.5 -21.6 -24.2 -17.2	11.0 -0.8 -36.5 -40.7 -28.8 -24.2 -25.1 -27.4 -20.7	-27.5 -34.3 -20.5 -16.1 -16.8 -19.3 -10.7	5.8 -6.8 12.5 18.3 18.1 14.8 27.8	-12 -25 -9 -5 -4 -6
AEO 20061.4 AEO 2007 AEO 2008 AEO 2009 AEO 2010 AEO 2011 AEO 2012 AEO 2012	2 -36.0 8 -59.1 1 -59.5 8 -53.5 1 -48.8 6 -51.3 9 -51.5 6 -47.5 6 -48.5	-49.2 -66.8 -67.1 -62.8 -59.1 -61.6 -60.9 -57.6	-46.0 -49.2 -66.8 -67.1 -62.8 -59.1 -61.6 -60.9 -57.6	6.0 -32.0 6.8 -59.1 6.8 -59.5 6.8 -53.5 651.3 651.5 647.5 648.5	-32.0 -36.0 -59.1 -59.5 -53.5 -48.8 -51.3 -51.5 -47.5	-28.9 -34.9 -58.5 -59.1 -52.6 -48.3 -50.1 -51.3 -47.0 -47.3	-40.6 -46.4 -66.1 -66.9 -61.2 -58.2 -59.1 -60.3 -56.6	14.1 3.3 -34.2 -37.0 -25.6 -20.5 -21.6 -24.2 -17.2	11.0 -0.8 -36.5 -40.7 -28.8 -24.2 -25.1 -27.4 -20.7 -13.1	-27.5 -34.3 -20.5 -16.1 -16.8 -19.3 -10.7	5.8 -6.8 12.5 18.3 18.1 14.8 27.8 41.1	-12 -25 -9 -5 -4 -6 3
AEO 2007 AEO 2008 AEO 2009 AEO 2010 AEO 2011 AEO 2012 AEO 2012 AEO 2013	2 -36.0 8 -59.1 1 -59.5 8 -53.5 1 -48.8 6 -51.3 9 -51.5 6 -47.5 6 -48.5 6 -35.7	-49.2 -66.8 -67.1 -62.8 -59.1 -61.6 -60.9 -57.6 -46.6	-46.0 -49.2 -66.8 -67.1 -62.8 -59.1 -61.6 -60.9 -57.6 -57.6	6.0 -32.0 6.0 -32.0 6.8 -59.1 6.1 -59.5 6.8 -53.5 6.6 -51.3 6.6 -51.3 6.6 -47.5 6.6 -47.5 6.6 -48.5 6.6 -35.7	-32.0 -36.0 -59.1 -59.5 -53.5 -48.8 -51.3 -51.5 -47.5 -48.5 -35.7	-28.9 -34.9 -58.5 -59.1 -52.6 -48.3 -50.1 -51.3 -47.0 -47.3 -35.2	-40.6 -46.4 -66.1 -66.9 -61.2 -58.2 -59.1 -60.3 -56.6 -55.4	14.1 3.3 -34.2 -37.0 -25.6 -20.5 -21.6 -24.2 -17.2 -12.4 -1.9	11.0 -0.8 -0.8 -0.8 -0.8 -24.7 -28.8 -24.2 -25.1 -27.4 -20.7 -13.1 -8.7	-27.5 -34.3 -20.5 -16.1 -16.8 -19.3 -10.7 -2.2	5.8 -6.8 12.5 18.3 18.1 14.8 27.8 41.1 52.4	-12. -25. -9. -5. -4. -6. 3. 14.
AEO 2008 AEO 2009 AEO 2010 AEO 2011 AEO 2012 AEO 2012	2 -36.0 8 -59.1 1 -59.5 8 -53.5 1 -48.8 6 -51.3 9 -51.5 6 -47.5 6 -48.5 6 -35.7 9 -19.0	-49.2 -66.8 -67.1 -62.8 -59.1 -61.6 -60.9 -57.6 -46.6 -25.9	-46.0 -49.2 -66.8 -67.1 -62.8 -59.1 -61.6 -60.9 -57.6 -46.6 -25.9	6.0 -32.0 6.0 -32.0 6.8 -59.1 6.1 -59.5 6.8 -53.5 6.6 -51.3 6.6 -51.3 6.6 -47.5 6.6 -48.5 6.6 -35.7 6.9 -19.0	-32.0 -36.0 -59.1 -59.5 -53.5 -48.8 -51.3 -51.5 -47.5 -48.5 -35.7	-28.9 -34.9 -58.5 -59.1 -52.6 -48.3 -50.1 -51.3 -47.0 -47.3 -35.2 -25.8	-40.6 -46.4 -66.1 -66.9 -61.2 -58.2 -59.1 -60.3 -56.6 -55.4 -46.6	14.1 3.3 -34.2 -37.0 -25.6 -20.5 -21.6 -24.2 -17.2 -12.4 -1.9	11.0 -0.8 -0.8 -0.8 -24.0.7 -28.8 -24.2 -25.1 -27.4 -20.7 -13.1 -8.7 -5.4	-27.5 -34.3 -20.5 -16.1 -16.8 -19.3 -10.7 -2.2 4.1	5.8 -6.8 12.5 18.3 18.1 14.8 27.8 41.1 52.4	-12 -25 -9 -5 -4 -6 3 14 27
AEO 2009 AEO 2010 AEO 2011 AEO 2012 AEO 2013	2 -36.0 8 -59.1 1 -59.5 8 -53.5 1 -48.8 6 -51.3 9 -51.5 6 -47.5 6 -48.5 6 -35.7 9 -19.0 4 8.4	-49.2 -66.8 -67.1 -62.8 -59.1 -61.6 -60.9 -57.6 -46.6 -25.9	-46.0 -49.2 -66.8 -67.1 -62.8 -59.1 -61.6 -60.9 -57.6 -46.6 -25.9	6.0 -32.0 6.0 -32.0 6.8 -59.1 6.1 -59.5 6.8 -53.5 6.6 -51.3 6.6 -51.3 6.6 -47.5 6.6 -48.5 6.6 -35.7 6.9 -19.0 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.5 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5	-32.0 -36.0 -59.1 -59.5 -53.5 -48.8 -51.3 -51.5 -47.5 -48.5 -35.7 -19.0 8.4	-28.9 -34.9 -58.5 -59.1 -52.6 -48.3 -50.1 -51.3 -47.0 -47.3 -35.2 -25.8 -2.2	-40.6 -46.4 -66.1 -66.9 -61.2 -58.2 -59.1 -60.3 -56.6 -55.4 -46.6 -44.4 -25.1	14.1 3.3 -34.2 -37.0 -25.6 -20.5 -21.6 -24.2 -17.2 -12.4 -1.9 2.6 31.4	11.0 6 -0.8 9 -36.5 9 -40.7 6 -28.8 6 -24.2 6 -25.1 9 -27.4 9 -20.7 1-3.1 1 -8.7 5 -5.4	-27.5 -34.3 -20.5 -16.1 -16.8 -19.3 -10.7 -2.2 4.1 4.9 24.8	5.8 -6.8 12.5 18.3 18.1 14.8 27.8 41.1 52.4 51.2 74.8	-12 -25 -9 -5 -4 -6 3 14 27 24
AEO 2010 AEO 2011 AEO 2012 AEO 2013	2 -36.0 8 -59.1 1 -59.5 8 -53.5 1 -48.8 6 -51.3 9 -51.5 6 -47.5 6 -48.5 6 -35.7 9 -19.0	-49.2 -66.8 -67.1 -62.8 -59.1 -61.6 -60.9 -57.6 -46.6 -25.9	-46.0 -49.2 -66.8 -67.1 -62.8 -59.1 -61.6 -60.9 -57.6 -46.6 -25.9	6.0 -32.0 6.0 -32.0 6.8 -59.1 6.1 -59.5 6.8 -53.5 6.6 -51.3 6.6 -51.3 6.6 -47.5 6.6 -48.5 6.6 -35.7 6.9 -19.0 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.5 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5	-32.0 -36.0 -59.1 -59.5 -53.5 -48.8 -51.3 -51.5 -47.5 -48.5 -35.7 -19.0 8.4	-28.9 -34.9 -58.5 -59.1 -52.6 -48.3 -50.1 -51.3 -47.0 -47.3 -35.2 -25.8 -2.2	-40.6 -46.4 -66.1 -66.9 -61.2 -58.2 -59.1 -60.3 -56.6 -44.4 -25.1 -17.7	14.1 3.3 -34.2 -37.0 -25.6 -20.5 -21.6 -24.2 -17.2 -12.4 -1.9 2.6 31.4 43.9	11.0 6 -0.8 2 -36.5 6 -24.2 6 -24.2 6 -25.1 2 -27.4 2 -20.7 4 -13.1 1 -8.7 6 -5.4 17.7 29.9	-27.5 -34.3 -20.5 -16.1 -16.8 -19.3 -10.7 -2.2 4.1 4.9 24.8 33.9	5.8 -6.8 12.5 18.3 18.1 14.8 27.8 41.1 52.4 51.2 74.8 83.8	-12 -25 -9 -5 -4 -6 3 14 27 24 42
AEO 2011 AEO 2012 AEO 2013	2 -36.0 8 -59.1 1 -59.5 8 -53.5 1 -48.8 6 -51.3 9 -51.5 6 -47.5 6 -48.5 6 -35.7 9 -19.0 4 8.4	-49.2 -66.8 -67.1 -62.8 -59.1 -61.6 -60.9 -57.6 -46.6 -25.9	-46.0 -49.2 -66.8 -67.1 -62.8 -59.1 -61.6 -60.9 -57.6 -46.6 -25.9	6.0 -32.0 6.0 -32.0 6.8 -59.1 6.1 -59.5 6.8 -53.5 6.6 -51.3 6.6 -51.3 6.6 -47.5 6.6 -48.5 6.6 -35.7 6.9 -19.0 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.5 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5	-32.0 -36.0 -59.1 -59.5 -53.5 -48.8 -51.3 -51.5 -47.5 -48.5 -35.7 -19.0 8.4	-28.9 -34.9 -58.5 -59.1 -52.6 -48.3 -50.1 -51.3 -47.0 -47.3 -35.2 -25.8 -2.2	-40.6 -46.4 -66.1 -66.9 -61.2 -58.2 -59.1 -60.3 -56.6 -44.4 -25.1 -17.7 -18.1	14.1 3.3 -34.2 -37.0 -25.6 -20.5 -21.6 -24.2 -17.2 -12.4 -1.9 2.6 31.4 43.9 58.3	11.0 -0.8 -36.5 -40.7 -28.8 -24.2 -25.1 -27.4 -13.1 -8.7 -5.4 17.7 29.9 41.1	-27.5 -34.3 -20.5 -16.1 -16.8 -19.3 -10.7 -2.2 4.1 4.9 24.8 33.9 48.3	5.8 -6.8 12.5 18.3 18.1 14.8 27.8 41.1 52.4 51.2 74.8 83.8 103.3	-122 -255 -9 -5. -4. -6. 3. 14. 27 24. 42. 42. 56
AEO 2012 AEO 2013	2 -36.0 8 -59.1 1 -59.5 8 -53.5 1 -48.8 6 -51.3 9 -51.5 6 -47.5 6 -48.5 6 -35.7 9 -19.0 4 8.4	-49.2 -66.8 -67.1 -62.8 -59.1 -61.6 -60.9 -57.6 -46.6 -25.9	-46.0 -49.2 -66.8 -67.1 -62.8 -59.1 -61.6 -60.9 -57.6 -46.6 -25.9	6.0 -32.0 6.0 -32.0 6.8 -59.1 6.1 -59.5 6.8 -53.5 6.6 -51.3 6.6 -51.3 6.6 -47.5 6.6 -48.5 6.6 -35.7 6.9 -19.0 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.5 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5	-32.0 -36.0 -59.1 -59.5 -53.5 -48.8 -51.3 -51.5 -47.5 -48.5 -35.7 -19.0 8.4	-28.9 -34.9 -58.5 -59.1 -52.6 -48.3 -50.1 -51.3 -47.0 -47.3 -35.2 -25.8 -2.2	-40.6 -46.4 -66.1 -66.9 -61.2 -58.2 -59.1 -60.3 -56.6 -44.4 -25.1 -17.7	14.1 3.3 -34.2 -37.0 -25.6 -20.5 -21.6 -24.2 -17.2 -12.4 -1.9 2.6 31.4 43.9 58.3 -5.1	11.0 -0.8 -36.5 -40.7 -28.8 -24.2 -25.1 -27.4 -20.7 -3.1 -5.4 -17.7 -29.9 -41.1	-27.5 -34.3 -20.5 -16.1 -16.8 -19.3 -10.7 -2.2 -4.1 -4.9 -24.8 -33.9 -48.3 -48.3	5.8 -6.8 12.5 18.3 18.1 14.8 27.8 41.1 52.4 51.2 74.8 83.8 103.3 68.4	-12259546. 3. 14. 27. 24. 42. 56.
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Average Absolute 4.3 10.4 22.3 9.8 11.0 9.2 8.5 33.7 31.1 18.6 39.4 40.1 51.0 3	2 -36.0 8 -59.1 1 -59.5 8 -53.5 1 -48.8 6 -51.3 9 -51.5 6 -47.5 6 -48.5 6 -35.7 9 -19.0 4 8.4	-49.2 -66.8 -67.1 -62.8 -59.1 -61.6 -60.9 -57.6 -46.6 -25.9	-46.0 -49.2 -66.8 -67.1 -62.8 -59.1 -61.6 -60.9 -57.6 -46.6 -25.9	6.0 -32.0 6.0 -32.0 6.8 -59.1 6.1 -59.5 6.8 -53.5 6.6 -51.3 6.6 -51.3 6.6 -47.5 6.6 -48.5 6.6 -35.7 6.9 -19.0 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.4 -48.5 6.5 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5 6.6 -48.5	-32.0 -36.0 -59.1 -59.5 -53.5 -48.8 -51.3 -51.5 -47.5 -48.5 -35.7 -19.0 8.4	-28.9 -34.9 -58.5 -59.1 -52.6 -48.3 -50.1 -51.3 -47.0 -47.3 -35.2 -25.8 -2.2	-40.6 -46.4 -66.1 -66.9 -61.2 -58.2 -59.1 -60.3 -56.6 -44.4 -25.1 -17.7 -18.1	14.1 3.3 -34.2 -37.0 -25.6 -20.5 -21.6 -24.2 -17.2 -12.4 -1.9 2.6 31.4 43.9 58.3 -5.1	11.0 -0.8 -36.5 -40.7 -28.8 -24.2 -25.1 -27.4 -20.7 -31.1 -5.4 -17.7 -29.9 -41.1 -1.2 -6.2	-27.5 -34.3 -20.5 -16.1 -16.8 -19.3 -10.7 -2.2 -4.1 -4.9 -24.8 -33.9 -48.3 -18.4 -23.9 -0.3	5.8 -6.8 12.5 18.3 18.1 14.8 27.8 41.1 52.4 51.2 74.8 83.8 103.3 68.4 84.7 38.1	-12. -25. -9. -5. -4. -6. 3. 14. 27. 24. 42. 56. 35. 42. 10.

Sources: Projections: Annual Energy Outlook, Reference Case Projections, Various Editions.