

Table 22. Energy Intensity, Projected vs. Actual

Projected

(quadrillion Btu / \$Billion 2005 Chained GDP)

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
AEO 1994	10.9	10.7	10.6	10.5	10.3	10.2	10.1	9.9	9.8	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0	8.9			
AEO 1995		10.5	10.4	10.3	10.1	10.0	9.8	9.7	9.6	9.4	9.3	9.2	9.1	9.0	8.9	8.9	8.8	8.7			
AEO 1996			10.4	10.3	10.1	10.0	9.8	9.7	9.5	9.4	9.3	9.2	9.1	9.0	8.9	8.9	8.8	8.7	8.7	8.6	8.5
AEO 1997				10.0	9.9	9.8	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0	8.9	8.8	8.8	8.7	8.6	8.5	8.5
AEO 1998					9.8	9.8	9.7	9.6	9.6	9.5	9.4	9.3	9.2	9.1	9.0	9.0	8.9	8.8	8.7	8.6	8.5
AEO 1999						9.3	9.4	9.4	9.3	9.2	9.1	9.0	8.8	8.7	8.6	8.5	8.4	8.3	8.2	8.1	8.1
AEO 2000							9.1	9.1	9.0	8.9	8.8	8.7	8.6	8.5	8.4	8.4	8.3	8.2	8.1	8.0	7.9
AEO 2001								8.4	8.3	8.2	8.1	8.0	7.8	7.7	7.6	7.5	7.4	7.2	7.1	7.0	6.9
AEO 2002									8.5	8.5	8.5	8.4	8.3	8.2	8.1	7.9	7.7	7.5	7.4	7.3	7.2
AEO 2003										8.3	8.2	8.1	8.0	7.9	7.8	7.7	7.6	7.4	7.3	7.2	7.1
AEO 2004											8.2	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2	7.1
AEO 2005												7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2	7.1	6.9
AEO 2006													7.7	7.5	7.5	7.3	7.2	7.1	7.0	6.9	6.8
AEO 2007														7.6	7.5	7.4	7.3	7.1	7.0	6.9	6.8
AEO 2008															7.5	7.5	7.3	7.1	7.0	6.9	6.7
AEO 2009																7.4	7.4	7.3	7.2	7.0	6.8
AEO 2010																	7.2	7.2	7.1	7.0	6.8
AEO 2011																		7.1	7.0	6.8	6.7
AEO 2012																			7.1	7.0	6.7
AEO 2013																				6.8	6.7
AEO 2014																					6.7
Actual*	10.0	9.8	9.7	9.7	9.3	9.0	8.7	8.6	8.2	8.2	8.0	7.9	7.7	7.4	7.4	7.3	7.1	7.2	7.1	6.7	6.8
Average Absolute Difference	0.9	0.8	0.7	0.6	0.7	0.9	1.0	0.9	1.0	0.8	0.9	0.8	0.9	1.0	0.8	0.8	0.8	0.6	0.5	0.7	0.5

Projected vs. Actual
(percent difference)

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
AEO 1994		9.1	9.8	9.3	8.3	10.9	13.9	15.6	16.3	19.2	18.0	19.6	20.2	22.6	25.4	24.0	25.0	26.3	23.9			
AEO 1995			7.6	7.0	6.1	8.3	11.1	12.8	13.3	16.1	14.9	16.2	16.5	18.8	21.7	20.6	21.7	23.1	20.8			
AEO 1996				6.6	6.0	8.4	11.0	12.6	12.9	15.4	14.4	16.1	16.7	19.2	21.9	20.7	22.0	23.4	21.2	22.8	28.1	26.3
AEO 1997					2.8	6.2	9.7	11.6	12.2	15.0	14.2	16.0	16.6	19.0	21.7	20.5	21.5	22.9	20.5	22.1	27.2	25.3
AEO 1998						4.9	8.8	11.8	12.8	16.2	15.5	17.2	17.6	20.2	23.1	22.1	23.1	24.5	22.0	23.5	28.5	26.4
AEO 1999							3.9	7.9	9.6	13.2	12.2	13.4	13.3	15.3	17.6	16.1	16.7	17.7	14.9	16.4	21.1	19.4
AEO 2000								4.4	6.2	8.8	8.3	9.9	10.0	12.3	15.0	14.1	14.9	16.1	13.5	15.1	19.6	17.5
AEO 2001									-1.8	0.5	-0.5	0.8	0.9	2.5	4.4	2.9	3.0	3.3	0.5	0.9	3.9	1.6
AEO 2002										2.9	3.7	6.1	6.5	8.4	10.6	8.9	8.3	8.1	4.7	4.8	8.3	6.0
AEO 2003											1.0	2.7	2.6	4.5	6.9	5.6	5.8	6.1	3.0	3.6	7.1	4.8
AEO 2004												1.8	1.7	3.7	5.7	4.1	4.3	4.6	2.3	3.1	6.8	4.5
AEO 2005													0.0	1.7	3.8	2.4	3.4	4.0	1.3	1.9	5.3	2.7
AEO 2006														1.0	1.9	0.9	0.7	1.0	-1.5	-1.0	2.5	0.0
AEO 2007															2.2	1.4	1.5	1.8	-0.9	-0.5	2.9	0.6
AEO 2008																1.6	2.7	2.0	-1.2	-1.0	2.1	-0.6
AEO 2009																	1.6	4.1	1.7	1.7	4.5	1.3
AEO 2010																		1.6	0.5	1.2	4.1	1.2
AEO 2011																			-1.1	-0.5	1.6	-1.4
AEO 2012																				0.9	4.2	-0.1
AEO 2013																					1.5	-0.4
AEO 2014																						-0.5
Average Absolute Percent Difference		9.1	8.7	7.7	5.8	7.7	9.8	11.0	10.6	11.9	10.3	10.9	10.2	11.5	13.0	11.1	11.0	11.2	8.6	7.1	10.0	7.4

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

Historical Data: U.S. Energy Information Administration, September 2014 Monthly Energy Review, DOE/EIA-0035(2013/08) (Washington, DC, September 25, 2014), Table 1.1, and Bureau of Economic Analysis, US Dept. of Commerce, September 2014.

* Actual energy intensity is now based on BEA data using 2009 chained dollars. With the update from 2005 chained dollars there was a 3.7% increase in GDP in 2005, therefore the projections are adjusted upward by this constant amount. This is necessary because BEA revises all historical years and past AEO projections were based on lower levels of GDP and could not have anticipated this increase.