

**Table 23. Total energy consumption (all sectors), projected versus actual**

Projected (quadrillion Btu)	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
AEO1994	88.0	89.5	90.7	91.7	92.7	93.6	94.6	95.7	96.7	97.7	98.9	99.9	100.7	101.6	102.4	103.3	103.9	104.7											
AEO1995	89.2	90.0	90.6	91.9	93.0	93.8	94.6	95.3	96.2	97.2	98.3	99.3	100.2	100.9	101.8	102.5	103.4												
AEO1996																													
AEO1997	90.6	91.3	92.5	93.5	94.3	95.1	95.9	96.9	98.0	99.1	100.3	101.3	101.8	102.8	103.4	104.2	105.0	106.0	106.8	107.2	107.7								
AEO1998																													
AEO1999	92.6	93.6	95.1	96.6	97.9	98.8	99.9	101.2	102.3	103.3	104.6	105.5	106.3	106.8	107.4	108.1	108.9	109.6	110.1	110.5									
AEO2000																													
AEO2001	94.7	96.7	98.6	99.8	101.3	102.4	103.4	104.4	105.7	107.2	108.3	109.5	110.7	111.7	112.6	113.6	114.3	114.8	115.4	115.9	116.5	117.1	117.7	118.2					
AEO2002																													
AEO2003	94.6	97.0	99.2	100.9	102.0	102.8	103.5	104.6	105.8	106.9	108.1	109.3	110.3	111.3	112.2	113.3	114.2	115.2	116.0	116.9	117.8	118.6	119.5						
AEO2004																													
AEO2005	94.6	97.0	99.2	100.9	102.0	102.8	103.5	104.6	105.8	106.9	108.1	109.3	110.3	111.3	112.2	113.3	114.2	115.2	116.0	116.9	117.8	118.6	119.5						
AEO2006																													
AEO2007	96.4	98.1	99.4	100.9	102.4	103.7	105.2	106.5	107.6	108.8	109.8	110.8	111.6	112.7	113.9	115.1	116.3	117.0	117.9	118.7	119.6	120.6							
AEO2008																													
AEO2009	97.6	99.9	102.2	104.1	105.6	107.0	108.4	109.8	111.1	112.3	113.6	114.8	116.1	117.6	118.9	120.4	121.6	122.9	124.0	125.3	126.7								
AEO2010																													
AEO2011	98.3	101.0	104.0	105.8	107.5	109.2	110.5	111.9	113.4	115.1	117.0	118.6	120.4	121.8	123.3	124.7	126.1	127.6	129.1	130.5									
AEO2012																													
AEO2013	97.5	99.9	101.6	103.1	105.0	107.0	108.9	110.7	112.8	114.7	116.6	118.4	120.0	121.5	123.1	124.6	126.2	128.0	129.8	131.3									
AEO2014																													
AEO2015	98.1	100.1	102.7	104.8	106.5	108.2	109.5	111.3	113.0	114.7	116.6	118.0	119.4	120.9	122.5	124.2	125.9	127.6	129.8	131.3									
AEO2016																													
AEO2017	99.8	101.8	103.5	105.3	107.5	109.3	110.8	112.3	113.8	115.2	116.7	117.9	119.3	120.9	122.4	123.8	125.2	126.5											
AEO2018																													
AEO2019	100.4	101.2	103.1	104.6	105.9	107.4	108.6	110.1	111.4	112.5	113.8	115.2	116.5	117.8	119.0	120.3	121.4												
AEO2020																													
AEO2021	100.6	101.1	102.7	103.2	104.7	106.2	107.7	109.1	110.5	111.4	112.9	114.3	115.7	117.1	118.5	119.9	121.4	122.8	124.2	125.6	127.0	128.4	129.8	131.2	132.6	134.0	135.4		
AEO2022																													
Actual	87.4	89.1	91.0	94.0	94.6	95.0	96.7	98.8	96.2	97.6	97.9	100.1	100.2	99.5	101.0	98.9	94.1	97.5	96.9	94.5	97.2	98.5	97.5	97.6	97.7	101.1	100.3	93.0	97.3
Average absolute difference	0.7	0.3	0.6	2.5	1.5	1.2	1.4	1.9	2.6	2.5	3.1	2.5	3.1	4.8	4.3	7.2	12.1	9.6	11.0	13.8	11.7	11.0	11.7	11.9	12.0	10.4	10.6	10.4	6.9

**Table 23. Total energy consumption (all sectors), projected versus actual (continued)**

Projected versus actual (percentage difference)		1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021									
AEO1994	0.7	0.5	-0.3	-2.4	-2.0	-1.5	-2.2	-3.1	0.5	0.0	1.0	-0.1	0.5	2.1	1.4	4.4	10.3	7.4																					
AEO1995	0.1	-1.2	-3.7	-2.8	-2.1	-2.9	-4.3	-0.9	-1.5	-0.8	-1.8	-0.9	-0.9	0.7	-0.1	2.9	8.9	6.1																					
AEO1996		-0.5	-2.9	-2.2	-1.6	-2.5	-3.8	-0.2	-0.7	0.0	-0.9	0.1	1.8	0.8	3.9	9.8	6.9	8.3	12.1	9.9	8.9	10.4																	
AEO1997		-1.5	-1.1	0.1	-0.1	-1.0	2.7	2.3	3.3	2.3	3.1	5.1	4.5	7.4	13.4	10.2	11.5	15.2	12.7	11.9	13.3																		
AEO1998		0.1	1.8	2.0	1.0	5.3	4.9	5.6	4.3	5.5	7.7	7.2	10.7	17.5	14.6	16.2	20.2	17.6	16.6	18.3	18.8	19.2	15.8	17.4	27.2														
AEO1999			-0.4	0.3	0.4	4.9	4.5	5.0	3.4	4.4	6.4	5.8	9.3	16.1	13.2	14.8	18.8	16.5	16.0	18.1	18.9	19.6	16.5	18.3	28.6														
AEO2000				-0.3	-0.7	3.3	3.3	4.6	3.6	5.0	7.1	6.6	10.0	16.6	13.6	15.2	19.3	17.2	16.9	19.2	19.9	20.6	17.4	19.2	29.7														
AEO2001					-1.2	3.9	4.7	6.3	5.5	6.7	8.9	8.7	12.3	19.3	16.6	18.5	22.8	20.9	20.8	23.4	24.7	25.8	22.7	24.9	36.3														
AEO2002						2.2	3.5	6.2	5.7	7.3	9.7	9.4	13.1	20.5	18.1	20.8	25.6	23.8	23.7	26.4	27.9	29.1	26.2	28.7	40.4														
AEO2003						-0.1	2.0	1.5	2.9	5.5	5.9	10.1	17.6	15.7	18.4	23.4	21.7	21.9	24.6	26.1	27.5	24.8	27.6	39.6	35.0														
AEO2004							0.1	0.1	2.5	5.3	5.4	9.4	16.3	14.2	16.6	21.4	19.9	19.8	22.4	23.9	25.4	22.8	25.5	37.2	32.5														
AEO2005								-0.3	1.6	4.0	4.2	8.7	16.1	13.6	15.9	20.4	18.5	18.6	20.9	22.3	23.7	21.1	23.5	34.7	30.0														
AEO2006								0.2	1.7	2.0	5.7	12.5	10.1	12.1	16.5	14.5	14.3	16.7	18.1	19.2	16.5	18.6	29.4	24.8															
AEO2007									1.1	1.1	4.5	11.2	8.7	10.6	14.8	12.8	12.6	14.8	16.0	16.8	14.0	16.1	26.7	22.2															
AEO2008										0.1	3.1	8.1	5.5	7.4	11.1	8.4	7.8	9.6	10.4	10.9	7.9	9.4	18.9	14.5															
AEO2009											1.3	3.7	1.1	3.2	7.0	4.7	3.4	4.3	4.6	4.8	1.8	3.2	12.2	7.7															
AEO2010											1.1	-1.4	1.2	5.4	3.1	2.5	3.8	4.3	4.8	1.9	3.5	12.6	8.1																
AEO2011											-0.2	0.9	4.7	3.3	2.3	4.2	4.8	5.1	2.1	3.5	12.5	8.0																	
AEO2012												1.0	3.1	-1.0	-1.6	-0.5	-0.1	-0.1	-3.1	-1.8	6.5	2.2																	
AEO2013													1.1	-1.4	-2.3	-0.2	0.4	1.1	-1.5	0.0	8.3	3.7																	
AEO2014														-1.1	-2.2	-0.2	0.6	1.3	-1.5	-0.3	8.0	3.6																	
AEO2015															0.0	0.3	1.2	1.3	-1.4	0.1	8.5	3.8																	
AEO2016																-0.8	0.0	1.0	-1.7	-0.1	8.2	3.6																	
AEO2017																		-1.1	-0.4	-2.5	-0.8	7.2	2.7																
AEO2018																		-0.4	-2.1	-0.4	7.9	3.0																	
AEO2019																			-1.0	-0.1	7.8	2.8																	
AEO2020																				-0.3	7.1	3.0																	
AEO2021																				0.0	-2.3																		
AEO2022																																							
Average absolute percentage difference	0.7	0.3	0.7	2.6	1.6	1.3	1.5	1.9	2.7	2.5	3.2	2.5	3.1	4.8	4.2	7.3	12.9	9.8	11.3	14.6	12.1	11.2	12.0	12.2	12.3	10.3	10.6	19.0	10.7										

Data source: Historical data are from the U.S. Energy Information Administration open data API (accessed April 2022), <http://www.eia.gov/opendata/>, series: TOTAL.TETCBUS.A; projections: Annual Energy Outlook, Reference case projections from various editions

Notes: shading indicates overestimation (blue) or underestimation (green).