

**Table 24. Total delivered residential energy consumption, projected versus actual**

Projected*	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	10.3	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.5	10.5	10.5	10.5	10.5	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6											
AEO1995	11.0	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.8	10.8	10.8	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9											
AEO1996	10.4	10.7	10.7	10.7	10.8	10.8	10.9	10.9	11.0	11.2	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3											
AEO1997	11.1	10.9	11.1	11.1	11.2	11.2	11.2	11.3	11.3	11.4	11.4	11.5	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.4	12.4	12.4	12.4	12.4	12.4												
AEO1998		10.7	11.1	11.2	11.4	11.5	11.5	11.6	11.7	11.8	11.9	11.9	12.1	12.1	12.2	12.3	12.5	12.6	12.7	12.8	12.9	12.9	13.0	13.1	13.2	13.2	13.2	13.2												
AEO1999			10.5	11.1	11.3	11.3	11.4	11.5	11.5	11.6	11.6	11.7	11.7	11.8	11.9	12.0	12.1	12.3	12.4	12.5	12.6	12.7	12.8	12.8	12.9	12.9	13.1	13.1												
AEO2000				10.7	10.9	11.0	11.1	11.2	11.3	11.4	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.3	12.5	12.5	12.6	12.7	12.7	12.8	12.8												
AEO2001					10.8	11.2	11.4	11.6	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	13.0	13.1	13.2	13.3	13.5	13.6	13.6	13.8	13.8												
AEO2002						11.3	11.5	11.8	12.0	12.0	12.1	12.1	12.3	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.1	13.1	13.2	13.4	13.5	13.5	13.5	13.5												
AEO2003							11.1	11.6	11.8	12.0	12.2	12.3	12.3	12.4	12.5	12.6	12.7	12.7	12.8	12.9	13.1	13.1	13.2	13.4	13.5	13.6	13.6	13.6												
AEO2004								11.5	11.8	11.9	12.0	12.2	12.3	12.4	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.7	13.7	13.7	13.7												
AEO2005									11.5	11.7	11.8	12.0	12.3	12.5	12.7	12.8	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.8	13.8													
AEO2006										11.7	11.7	11.8	12.0	12.1	12.2	12.4	12.5	12.6	12.7	12.8	13.0	13.0	13.1	13.2	13.3	13.4	13.4													
AEO2007											11.3	11.8	12.0	12.1	12.2	12.3	12.5	12.6	12.7	12.7	12.9	13.0	13.1	13.2	13.2	13.2	13.2													
AEO2008												11.5	11.7	11.7	11.7	11.8	11.9	11.8	11.9	11.9	12.1	12.1	12.2	12.2	12.3	12.3	12.3	12.3												
AEO2009													11.6	11.6	11.6	11.4	11.4	11.3	11.4	11.4	11.5	11.5	11.6	11.6	11.7	11.7	11.7	11.7	11.7											
AEO2010														11.2	11.3	11.1	11.1	11.0	11.0	11.1	11.1	11.2	11.2	11.3	11.4	11.4	11.4	11.4	11.4	11.4										
AEO2011															11.4	11.1	11.1	11.0	11.0	11.0	11.1	11.1	11.1	11.1	11.2	11.2	11.2	11.2	11.2	11.2	11.2									
AEO2012																11.6	11.6	11.3	11.3	11.2	11.2	11.3	11.3	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4								
AEO2013																	10.7	11.2	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0							
AEO2014																		11.3	11.0	10.8	10.8	10.8	10.8	10.8	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7						
AEO2015																			11.7	10.9	10.8	10.8	10.7	10.7	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6						
AEO2016																				10.9	10.9	11.1	11.1	11.1	11.0	10.9	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8					
AEO2017																					10.6	10.9	11.0	11.0	10.9	10.9	10.9	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8				
AEO2018																						10.5	11.1	10.9	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8			
AEO2019																							11.4	11.3	11.1	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0		
AEO2020																								11.6	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	
AEO2021																									11.4	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
AEO2022																										11.5														
Actual	10.5	10.4	10.5	11.2	10.7	10.3	10.7	11.2	11.0	11.2	11.6	11.4	11.5	10.8	11.4	11.6	11.3	11.5	11.3	10.5	11.6	11.9	11.3	10.7	10.7	12.0	11.9	11.6	11.7											
Average absolute difference	0.2	0.3	0.2	0.4	0.1	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8	0.5	0.4	0.7	0.6	0.8	1.6	0.7	1.0	1.3	1.3	1.0	1.0	0.9	0.7												

**Table 24. Total delivered residential energy consumption, 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	-2.2	-0.6	-1.3	-7.1	-3.0	1.3	-2.6	-7.3	-4.9	-7.1	-9.9	-8.3	-9.4	-2.7	-7.4	-9.4	-6.7	-8.0												
AEO1995	5.2	2.9	-3.1	1.0	5.1	0.8	-4.2	-2.2	-4.5	-7.7	-6.1	-7.4	-0.7	-5.6	-7.5	-4.6	-5.8													
AEO1996	-0.9	-4.5	-0.1	4.3	0.8	-3.4	-0.9	-2.5	-4.8	-2.2	-3.0	4.8	0.3	-0.8	2.5	1.6	4.2	14.4	4.1	2.4	8.9									
AEO1997	-0.9	2.3	7.7	3.8	-0.6	1.9	0.1	-2.4	0.1	-0.7	7.1	2.4	1.0	4.2	3.2	5.6	15.9	5.3	3.6	10.0										
AEO1998	0.1	8.1	4.8	1.2	4.5	2.7	0.2	2.8	1.9	10.1	5.2	3.9	7.3	6.3	8.8	19.5	8.5	6.7	13.2	20.1	20.7	8.8	10.2	14.1						
AEO1999	2.6	4.2	0.3	3.5	1.7	-1.1	1.3	0.2	8.0	3.2	1.9	5.2	4.1	6.8	17.3	6.6	5.1	11.4	18.3	18.9	7.2	8.7	12.7							
AEO2000	0.3	-2.5	0.5	-1.0	-3.3	-0.6	-1.3	6.6	2.0	0.9	4.3	3.3	5.6	15.6	4.9	3.1	9.4	16.0	16.6	5.1	6.5	10.4								
AEO2001	-3.9	1.8	1.5	-0.1	3.1	2.7	11.0	6.4	5.2	8.7	7.9	10.6	21.5	10.6	9.0	16.0	23.4	24.4	12.5	14.4	18.9									
AEO2002	2.6	2.7	1.8	4.8	3.9	12.0	7.0	5.5	8.8	7.6	10.1	20.7	9.6	7.8	14.6	21.6	22.4	10.5	12.3	16.7										
AEO2003	-0.9	0.3	3.6	3.1	11.8	7.2	5.9	9.3	8.3	10.1	21.2	9.9	8.0	14.1	21.1	22.4	10.5	12.2	16.3	16.5										
AEO2004	-0.6	3.2	2.7	11.5	7.1	6.1	9.8	9.2	11.9	22.5	11.1	9.1	15.8	22.9	23.7	11.7	13.4	17.7	17.6											
AEO2005	0.5	0.9	9.5	5.9	5.8	10.3	10.0	13.2	24.3	13.0	11.0	17.8	25.0	25.9	13.5	14.9	18.9	18.7												
AEO2006	1.2	8.9	3.9	3.2	7.0	6.3	9.0	19.6	8.6	6.7	13.6	20.6	21.4	9.4	10.8	14.7	14.5													
AEO2007	4.7	3.7	3.0	6.7	6.0	8.7	19.3	8.4	6.5	13.0	19.7	20.2	8.2	9.6	13.5	13.3														
AEO2008	0.9	0.4	3.6	1.2	3.6	13.6	1.9	-0.1	5.9	12.3	12.8	1.5	2.7	6.0	5.8															
AEO2009						0.2	2.7	0.8	0.5	9.1	-2.1	-4.4	1.0	6.7	7.0	-3.8	-2.7	0.4	0.1											
AEO2010						-0.9	-2.2	-2.2	6.2	-4.8	-7.1	-1.8	3.7	4.0	-6.4	-5.2	-2.0	-2.1												
AEO2011						-0.7	-2.2	6.1	-4.8	-7.2	-2.3	3.0	3.1	-7.6	-6.7	-3.9	-4.4													
AEO2012						2.2	11.0	-2.5	-5.2	-0.4	4.7	5.0	-5.7	-4.8	-2.2	-2.4														
AEO2013							2.7	-3.0	-7.3	-2.6	2.1	2.1	-8.7	-7.9	-5.7	-6.0														
AEO2014								-2.9	-7.2	-4.1	0.6	0.8	-9.9	-9.5	-7.5	-8.0														
AEO2015									-1.4	-3.3	0.3	0.3	-10.3	-10.0	-8.4	-9.4														
AEO2016									-3.2	1.9	3.4	-7.7	-7.5	-6.1	-7.0															
AEO2017										-1.1	1.7	-8.2	-7.9	-6.2	-7.1															
AEO2018										-1.8	-7.8	-8.3	-6.6	-7.5																
AEO2019											-4.6	-5.1	-4.7	-5.7																
AEO2020																														
AEO2021																														
AEO2022																														
Average absolute percentage difference	2.2	2.9	1.7	3.9	1.3	4.8	2.5	2.9	2.5	2.5	2.9	3.1	3.0	7.8	4.6	3.8	6.0	5.1	6.8	15.6	6.5	5.9	8.7	12.3	12.3	8.2	8.4	9.1	7.7	

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.TERCBUS.A & TOTAL.LORCBUS.A; projections: Annual Energy Outlook, Reference case projections from various editions

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

\*Projections exclude electricity-related losses.