



Annual Energy Outlook

Retrospective Review: Evaluation of Projections in Past Editions (1982-2008)



Energy Information Administration

Annual Energy Outlook Retrospective Review: Evaluation of Projections in Past Editions (1982-2008)

The Energy Information Administration (EIA) produces projections of energy supply and demand each year in the *Annual Energy Outlook* (*AEO*). The projections in the *AEO* are not statements of what will happen but of what might happen, given the assumptions and methodologies used. The projections are business-as-usual trend projections, given known technology, technological and demographic trends, and current laws and regulations. The potential impacts of pending or proposed legislation, regulations, and standards—or of sections of legislation that have been enacted but that require implementing regulations or appropriation of funds that are not provided or specified in the legislation itself—are not reflected in the projections. The *AEO* is based on only then current Federal and State laws and regulations. Thus, the *AEO* provides a policy-neutral reference case that can be used to analyze policy initiatives. The analyses in the *AEO* primarily focuses on a reference case, lower and higher economic growth cases, and lower and higher energy price cases. However, more than 30 alternative cases are generally included in the *AEO*. Readers are encouraged to review the full range of cases, which address many of the uncertainties inherent in long-term projections.

Each year since 1996, EIA's Office of Integrated Analysis and Forecasting has produced a comparison between realized energy outcomes and the projections included in previous editions of the *AEO*. Each year, the comparison adds the projections from the most recent *AEO* and updates the historical data to the most recently available. The comparison summarizes the relationship of the *AEO* reference case projections since 1982 to realized outcomes by calculating the average absolute percent differences for several of the major variables for *AEO1982* through *AEO2008*.¹ The average absolute percent difference is the simple mean of the absolute values of the percentage difference between the reference case projection and the actual value. The historical data are typically taken from the *Annual Energy Review* (*AER*).² The last column of Table 2 provides a summary of the most recent average absolute percent differences for 21 of the most important projection components. The detailed calculation of these differences is shown in Tables 3 through 23. These tables also provide the average absolute difference, which is the simple mean of the absolute value of the difference between the reference case projection and the actual value. The calculated absolute average differences can change from one year's evaluation to the next as an additional year of data and projections are added to the evaluation series and also because of data revisions in the *AER* and the *Monthly Energy Review* (*MER*).

A set of world oil price and economic growth projections is defined at the beginning of each process leading to a new *AEO*. Due to the integrated modeling of energy markets by the National Energy Modeling System (NEMS), these initial world oil price and economic growth projections are linked to other projections; however any feedback response tends to be relatively small. Thus, the primary direction of influence tends to be from the world oil price and macroeconomic variables to the other variables solved in the NEMS. If these initial values deviate from their actual values, that deviation is propagated through all the other price and quantity projections. Generally, quantities move less rapidly than do prices, due to a variety of factors, including the inertia from energy-consuming capital stocks, lead times in capital purchase decisions, contract periods, and myopia. Consequently, quantities tend to be less affected by errors in the initial world oil price and economic growth projections than prices.

The metric for comparing projected GDP to actual is presented in terms of growth rates in real GDP. Earlier versions of the Retrospective used nominal dollars. The nominal dollar comparison table is

¹ Note the publication gap in the tables that follow, there was no publication of *AEO1988*.

² GDP and the GDP price deflators come from the Bureau of Economic Analysis, while coal prices to electric generating plants are from the *Monthly Energy Review* (*MER*).

provided for continuity, but it will be discontinued in future editions. More information on this change is given in the box describing the impacts of GDP revisions on the *AEO* historical comparisons, below.

The growth in GDP is a good measure of the growth of the aggregate economy over time. However, other concepts like disposable income, industrial output, vehicle sales, residential households, and commercial floorspace, to name a few, are the actual drivers of the energy projections. GDP is perhaps the single best summary metric to show how the aggregate economy grows; and the assessment of how projections of GDP compare to history is a good proxy for how projections of economic activity in general influence energy markets.

As indicated in Table 2, the reference case projections of energy consumption, energy production, and carbon dioxide emissions have been relatively close to realized outcomes, the projections of net energy imports have been moderately close to realized outcomes, and the reference case projections of energy prices have been the furthest from realized outcomes. Both Table 2 and the individual tables show marked improvement in the absolute average differences for energy prices and net energy imports over time.

The underlying reasons for deviations between the *AEO* reference case projections and realized history have tended to be the same from one evaluation to the next. The most significant are:

- Because of the mid-term emphasis of the *AEO*, the projected growth rates in real GDP used in the *AEO* projections are trend projections rather than cyclic – that is, business cycles, more appropriate for short term projections, are not included in the *AEO* projections. Because of this, over-projections of the growth rate in real GDP tend to line up with economic slowdowns or recessions, whereas under-projections tend to occur during expansionary phases of the economy. Because GDP is a good indicator of the economic activity, which drives energy consumption, the differences between projected energy consumption and actual consumption are often similar to the differences between the GDP projections and actual GDP (Table 3).
- Overestimation of world oil prices, particularly in publications prior to *AEO1997* (Table 4), resulted in underestimation of petroleum consumption. The prices in the *AEOs* completed after 1997 tended to be underestimated, which led to overestimation of petroleum consumption (Table 5).
- The fuel with the largest difference between the projections and actual data has generally been natural gas. As regulatory reforms that increased the role of competitive markets were implemented in the mid-1980s, the behavior of natural gas was especially difficult to predict. The technological improvement expectations embedded in early *AEOs* proved conservative and advances that made petroleum and natural gas less costly to produce were missed. After natural gas curtailments that artificially constrained natural gas use were eased in the mid-1980s, natural gas was an increasingly attractive fuel source, particularly for electricity generation and industrial uses. Historically, natural gas price instability was strongly influenced by natural gas resource estimates, which steadily rose, and by the world oil price. More recently, the *AEO* reference case has overestimated natural gas consumption (Table 9) due to the use of natural gas wellhead price projections that proved to be significantly lower than what actually occurred (Table 8).
- Coal prices to the electric power sector were almost always overestimated prior to *AEO1999* and underestimated thereafter (Table 12). In general, the *AEO* coal projections produced prior to the use of NEMS (*AEO1982* through *AEO1993*) did not explicitly model coal mining productivity. From 1985 through 2000, coal mining productivity improved by an average of 6.4 percent per year, reducing the cost of production, and resulting in lower coal prices. As a result, there was a tendency for pre-NEMS coal models to overestimate future coal prices. An additional factor, contributing to the overestimation of delivered coal prices in earlier *AEOs* was a sharp decline in

coal transportation rates that began in the mid-1980s and continued through the 1990s. For the *AEOs* produced using NEMS (starting with *AEO1994*), coal mining labor productivity is explicitly modeled. However, the rather sudden switch from steadily increasing coal mining productivity during the 1980s and 1990s to a flat to declining rate starting around 2000 and continuing through 2005 was not anticipated in most of the *AEO* projections generated using NEMS. As a result, there has been a recent tendency to underestimate coal prices especially post-2002.

- For 2001 and beyond there is an initial pattern of underestimation of coal consumption (Table 13) then a series of *AEOs* with overestimation. This is consistent with the pattern of total electricity sales, the sector that accounts for the majority of U.S. coal consumption.
- Since *AEO2001*, coal production (Table 14) is overestimated in nearly all *AEOs*. For *AEO1991* through *AEO2002*, there was a tendency to overestimate coal exports and underestimate coal imports, both of which contributed to an overestimation of U.S. coal production. From the *AEO2003* through *AEO2008*, reference case projections of U.S. coal production have aligned fairly well with actual production levels. Another confounding factor regarding projections of U.S. coal production is the mostly unpredictable pattern of annual coal stock withdrawals and builds. For example, a 38 million ton build-up of coal stockpiles in 2001 resulted in a higher production number than would have been projected in the *AEO* projections, contributing to an underestimation of coal production for 2001 in several *AEOs*. This result follows from the general *AEO* assumption that the supply and demand for all fuels will balance for all projection years not calibrated to EIA's Short Term Energy Outlook projection. Historically, other notable changes in coal stockpiles include stock drawdowns of 44 million tons and 41 million tons in 1993 (a strike year) and 2000, respectively.
- Electricity prices have generally been overestimated in the *AEO* reference case projections through the 1990s (Table 15). Electricity prices in the early *AEOs* assumed regulated, average cost pricing, where fuel costs make up roughly 40 to 50 percent of the total price. As discussed above, coal prices to electric generators were often overestimated in these *AEOs*, resulting in similar overestimation of electricity prices. In the more recent *AEOs*, electricity prices have been underestimated, again following the pattern in the coal price projections. Also, in more recent years, electric generators have become more dependent on natural gas and the price underestimation in recent *AEOs* coincides with natural gas price spikes that were not predicted by the *AEO*.
- The level of future electricity sales was underestimated for nearly all projection years for the *AEO 1991* through *AEO1997* reference cases (Table 16). Since about 90 percent of the demand for coal results from electricity generation, the underestimation of electricity sales contributes to underestimation of coal consumption in those years (Table 13). The underestimation of electricity sales was particularly large in *AEO1994* through *AEO1996* and coal demand in those *AEOs* exhibit similar patterns of underestimation.
- Over the last two decades, there have been changes in laws, policies, and regulations that were not assumed in the projections prior to their implementation because of EIA's statutory requirement to be policy neutral. Many of these actions have had significant impacts on energy supply, demand, and prices. For example, the Powerplant and Industrial Fuel Act (FUA) of 1978 restricted the use of natural gas in power plants and industrial boilers. After FUA was repealed in 1987, use of natural gas for electric generation and industrial processing increased sharply. Consequently, those *AEOs* completed prior to or immediately after repeal of the FUA, e.g., *AEO1986*, *AEO1987*, and *AEO1989*, underestimated natural gas consumption in 2000 by considerably more than *AEOs* completed in more recent years. *AEOs* completed after the year 2000 have tended to overestimate natural gas consumption in the reference case. The

overestimation since 2000 can be attributed to underestimation of natural gas prices in those projections.

- Technological improvements in both the production and use of energy have had a significant impact on the price, supply, and consumption of energy. Earlier *AEOs* typically assumed much slower technology development than actually occurred. This tendency was identified, in part, by this type of evaluation exercise. Beginning with the *AEO1994*, the projections were produced using the NEMS, which was designed to represent technology in a more detailed fashion. This has lead to an improvement in the representation of technological change in the *AEO*. As NEMS has evolved, additional studies on technological improvement have led to more optimistic assumptions in the more recent projections. Further, the adoption of modeling innovations, such as learning-by-doing, have allowed the model to better reflect the impact on cost of experience with new technologies as they are adopted.
- External factors such as severe weather, economic cycles, and other supply and/or demand disruptions have also had an impact on the accuracy of the projections, particularly in the short term. These types of events are not anticipated in a mid- to long-term projection like the *AEO*.
- Total energy consumption by sector has been added to the comparison tables for this evaluation. Overall, the projection errors tend to be small; however, some pattern of overestimation is evident. In the transportation sector, this tendency can generally be explained by the economic, fuel-specific, and external factors discussed above. In addition, weather changes contribute to the overestimation for all end-use sectors. Also, another portion of the overestimation in the industrial sector results from underestimating the extent of structural shifts in the sector. The evolution of the U.S. economy away from energy intensive industries to less-energy intensive manufacturing and services has continued unabated for a few decades and has even accelerated in the many subcategories in the energy-intensive industries. Actual residential and commercial energy use have also been affected in the last 15 years by weather patterns that have been generally warmer than the 30-year average “normal” used in developing *AEO* projections. Similar to the impact of GDP revisions, updates to published *AER* data and changes in consumption surveys affect the magnitude of the apparent projection error.

Table 1 provides a summary of the percentage of years in which a particular data series is overestimated as well as the absolute percent projection differences for the entire series of *Annual Energy Outlook* reference cases as well as for just the NEMS *AEOs* by Table. The percentage of overestimates is calculated as the number of overestimates relative to the total number of projections made (i.e., for each *AEO* and each year projected). In an unbiased projection, we would expect the percentage of overestimates to be close to 50 percent. The percentage of overestimates in the NEMS *AEOs* has improved (i.e., moved closer to 50 percent) for 8 of the 21 concepts shown in Tables 3 through 23. In several of the cases, the percentage of overestimates for the series is only a few percentage points different from 50 percent. The absolute average differences are smaller in magnitude for the NEMS *AEOs* in all but 8 of the 21 comparisons.

Table 1. Summary of Differences between AEO Reference Cases and Realized Outcomes

	All AEOs		NEMS AEOs	
	Percent Estimated	Absolute Over- Difference	Percent Estimated	Absolute Over- Percent
Table 3. Gross Domestic Product, Actual vs. Projected	30%	1.0%	36%	0.9%
Table 4. World Oil Prices, Actual vs. Projected	59%	50.9%	28%	27.1%
Table 5. Total Petroleum Consumption, Actual vs. Projected	36%	2.9%	51%	2.1%
Table 6. Domestic Crude Oil Production, Actual vs. Projected	56%	5.4%	60%	5.9%
Table 7. Petroleum Net Imports, Actual vs. Projected	49%	6.0%	52%	3.6%
Table 8. Natural Gas Wellhead Prices, Actual vs. Projected	56%	59.1%	21%	31.2%
Table 9. Total Natural Gas Consumption, Actual vs. Projected	44%	7.0%	67%	6.8%
Table 10. Natural Gas Production, Actual vs. Projected	57%	6.2%	75%	7.0%
Table 11. Natural Gas Net Imports, Actual vs. Projected	36%	14.3%	54%	9.8%
Table 12. Coal Prices to Electric Generating Plants, Actual vs. Projected	81%	44.5%	62%	18.0%
Table 13. Total Coal Consumption, Actual vs. Projected	42%	4.1%	43%	4.8%
Table 14. Coal Production, Actual vs. Projected	64%	4.1%	51%	3.8%
Table 15. Average Electricity Prices, Actual vs. Projected	77%	19.6%	54%	11.0%
Table 16. Total Electricity Sales, Actual vs. Projected	36%	2.6%	32%	3.3%
Table 17. Total Energy Consumption, Actual vs. Projected	50%	2.5%	60%	2.7%
Table 18. Residential Consumption, Actual vs. Projected	56%	3.2%	55%	3.5%
Table 19. Commercial Consumption, Actual vs. Projected	34%	4.3%	31%	5.7%
Table 20. Industrial Consumption, Actual vs. Projected	70%	5.1%	85%	6.1%
Table 21. Transportation Consumption, Actual vs. Projected	33%	4.4%	59%	3.0%
Table 22. Total Carbon Dioxide Emissions, Actual vs. Projected	32%	3.4%	36%	3.3%
Table 23. Energy Intensity, Actual vs. Projected	70%	5.9%	93%	5.5%

Note: The basis for the GDP comparisons has been changed from nominal GDP levels to growth rates in real GDP. Thus the Table 3 summary statistics are on a different basis than published in previous year's evaluations. The differences for Table 3 are now percentage point differences, not percentage differences. For example if projected real GDP growth was 4 percent, but actual real GDP growth was 3 percent, this difference is presented as a 1 percentage point difference, not a 33 percent difference, which would happen if comparisons between historical and projected growth rates were based in percentage differences.

Revisions to Gross Domestic Product and Implications for the Comparisons

The concept of GDP is a commonly used measure of economic activity. It can be expressed in nominal dollars or, with the use of a matched price index to remove inflation, in “real” terms. Movements in nominal GDP show how the value of goods and services produced by the United States changes over time, while real GDP is a measure of how the physical production of the economy has grown. While simple in concept, the projecting of nominal and real GDP and the interpretation of these projected measures relative to “history” is not simple or straightforward. The Bureau of Economic Analysis (BEA) within the U.S. Department of Commerce continually adjusts the National Income and Product Accounts data, with comprehensive revisions completed every 4 or 5 years. The last four major revisions (1985, 1991, 1995, and 1999) incorporated definitional and statistical changes, as well as emphasizing new ways of presenting the data. Also, prior to AEO1993 aggregate economic activity was measured and projected on the basis of Gross National Product (GNP) as opposed to Gross Domestic Product (GDP). For the period from 1984 through 2004, nominal GNP is on average approximately 0.45 percent above nominal GDP.

The changes are not restricted to the nominal series. Concept changes in the derivation of real GDP also change the perception of economic activity. Prior to 1995, BEA measured real GDP on a fixed-base-year-method. Price deflators for each component of GDP were used to deflate the value of nominal GDP to a base year. While this method allowed total real GDP to be computed by adding the component values (consumption, investment, government, net exports), reliance on base-year-weighting caused problems. The perception of growth in real GDP using the fixed-weight approach is dependent on the selection of the base year. In switching the base year from 1982 to 1987, all the growth rates for the respective “real” components changed. A solution is to convert to a chain-weighted measure that eliminates the problem of historical growth rates changing when the base year is updated.³ If this approach is followed, however, the component pieces of GDP do not add to the total GDP.

Following the BEA, the AEO projections prior to AEO1997 used a fixed-weight base year GDP with several different base years. Beginning with the AEO1997 projection, the AEO projection has been completed using chain-weighted dollars. Any evaluation therefore must acknowledge that the projections were based on historical data, *as it appeared at the time the projections were prepared*. The problem is, there is only one set of historical values available now – the BEA series on nominal GDP and real GDP expressed in 2000 chain-weighted dollars. What should be the basis of comparison of projection differences – nominal or real?

Each AEO shows the price deflator and the real GDP series (fixed-weight or chain-weighted, depending upon AEO vintage). A simple multiplication yields the nominal GDP series. While the transformation is simple, there is the difficulty associated with gaps in the data as the BEA has included additional components in the definition of nominal GDP over time. Since the GDP projection cannot anticipate such changes, it will be incorrect from the start. On the real side, each AEO reports real GDP, but early AEOs are in fixed-weight dollars with varying base years, and since 1997 (AEO98), GDP projections use a chain-weighted method. Again, there exists only one current history – the BEA chain-weighted 2000 dollar concept. Lack of available data from old AEOs precludes moving the old fixed-weight real GDP into a chain-weighted concept. The alternative of viewing history from a fixed-weight perspective is not viable because BEA does not maintain these series in that form. And even if the conversion issues did not exist, the real GDP measure would still contain the gap in the nominal series due to definitional changes in what GDP includes.

³ “Chained-Dollar Indexes: issues, Tips on Their Use, and Upcoming Changes,” J. Steven Landefeld, Brent R. Moulton, and Cindy M. Vojtech, *Survey of Current Business*, Bureau of Economic Analysis, November 2003. <http://www.bea.gov/bea/ARTICLES/2003/11November/1103%20Chain-dollar.pdf>

For the above reasons, earlier *AEO* evaluations provided GDP comparisons in nominal dollars. However, beginning with this edition, the projection differences for GDP are developed as percentage point differences in growth rates of real GDP. This has several advantages. First, projection differences will not tend to persist over the projection horizon (as would occur if real GDP experienced an un-projected drop in an early year due to a recession – in which case subsequent year projections differences would also tend to be in the same direction and greater than actual for this example). Second, certain definitional changes may have less of an impact on the growth rate in real GDP than on the levels of GDP. And finally, the growth rate in real GDP is a more familiar concept. Table 3 clearly shows patterns of expansion and recession based on the *AEO* projection differences – the *AEO* projects long term trends in real GDP and does not model business cycles. An updated version of Table 3 in nominal dollars is provided for continuity, but the summary statistics in Tables 1 and 2 are based on the new version of Table 3.

Annual Energy Outlook Retrospective Review, 2008

Table 2. Comparison of Absolute Percent Difference Between AEO Reference Case Projections and Realized Outcomes

Variable	Average Absolute Percent or Percentage Point Difference					
	AEO1982 to AEO2003	AEO1982 to AEO2004	AEO1982 to AEO2005	AEO1982 to AEO2006	AEO1982 to AEO2007	AEO1982 to AEO2008
Gross Domestic Product						
Real Gross Domestic Product (Growth Rate)*	1.2	1.2	1.2	1.1	1.1	1.0
Petroleum						
World Oil Prices	59.3	56.4	54.1	52.6	51.7	50.9
Total Petroleum Consumption	3.0	2.9	2.9	2.9	2.9	2.9
Crude Oil Production	4.6	4.6	4.7	4.9	5.1	5.4
Petroleum Net Imports	7.1	6.8	6.6	6.5	6.2	6.0
Natural Gas						
Natural Gas Wellhead Prices	70.4	67.5	64.9	63.1	61.1	59.1
Total Natural Gas Consumption	6.4	6.4	6.4	6.6	7.0	7.0
Natural Gas Production	4.5	4.6	5.0	5.7	6.1	6.2
Natural Gas Net Imports	15.4	15.2	14.9	14.7	14.6	14.3
Coal						
Coal Prices to Electric Generating Plants**	48.4	47.7	47.0	46.4	45.4	44.5
Total Coal Consumption	3.7	3.9	3.9	4.0	4.1	4.1
Coal Production	3.6	3.8	3.9	4.0	4.0	4.1
Electricity						
Average Electricity Prices	19.7	19.6	19.5	19.7	19.7	19.6
Total Electricity Sales	2.3	2.4	2.4	2.5	2.5	2.6
Total Energy, Carbon and Intensity						
Total Energy Consumption	2.1	2.2	2.2	2.2	2.4	2.5
Residential Energy Consumption	2.9	2.9	2.9	2.9	3.2	3.2
Commercial Energy Consumption	3.8	3.9	4.0	4.1	4.3	4.3
Industrial Energy Consumption	3.3	3.6	3.7	4.1	4.5	5.1
Transportation Energy Consumption	4.5	4.4	4.4	4.4	4.4	4.4
Total Carbon Dioxide Emissions	3.6	3.5	3.4	3.3	3.3	3.4
Energy Intensity	5.9	5.8	5.7	5.7	5.9	5.9
AEO - Annual Energy Outlook						
Source: Statistics in Table 2 are a summary of the calculations in Tables 3 through 19. The data in Tables 3 through 19 are based on the 1982 through 2008 <i>Annual Energy Outlook</i> projections. Historical data are taken from the <i>Annual Energy Review 2007</i> , DOE/EIA-0384(2007) (Washington, DC, June 23, 2008) and the <i>Monthly Energy Review June 2008</i> , DOE/EIA-0035(2008/06) (Washington, DC, June 2006).						
Note: Projections of carbon dioxide emissions began in AEO93 and were first evaluated in 2000. Evaluation of energy intensity projections began in 2003. Revisions to historical data are reflected in this edition.						
* The basis for GDP comparisons is now projection differences in the growth rate of real GDP. Thus, the summary information for Table 3 is on a percentage point basis, different from other concepts which are evaluated in levels and also different from prior editions of this retrospective. Refer to the discussion of GDP comparisons in the text for more information.						
** Coal prices to electric generating plants are from the <i>Monthly Energy Review</i> . Beginning in AEO2003, EIA electric generating projections incorporated combined heat and power (CHP) electricity generation in electricity generating plants. Prior to AEO2003, coal price projections reflected data collected, estimated, and reported to electric utilities and excluded CHP power generation.						

Table 3. Gross Domestic Product, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007			
AEO 1982	3.26%	3.13%	2.55%	2.66%	3.08%																					
AEO 1983	3.40%	3.56%	3.15%	2.63%	2.56%																					
AEO 1984	2.19%	3.94%	3.68%	3.07%	2.77%																					
AEO 1985	2.15%	3.62%	2.99%	3.61%	3.22%	3.07%	2.78%	2.27%	2.17%	2.36%																
AEO 1986	2.45%	3.00%	1.85%	2.81%	3.12%	2.48%	2.23%	2.28%	2.31%	2.33%	2.36%	2.43%	2.51%	2.51%												
AEO 1987		1.83%	2.70%	2.71%	2.76%	2.87%	2.45%	1.94%	1.53%																	
AEO 1989*		2.87%	2.45%	2.58%	2.50%	2.39%	2.38%	2.35%	2.48%	2.07%	2.39%	2.65%	2.64%													
AEO 1990			1.81%							2.57%				2.43%										2.38%		
AEO 1991				1.13%	3.29%	1.87%	1.86%	2.22%	2.56%	2.65%	2.44%	2.46%	2.50%	2.65%	2.34%	2.10%	1.99%	2.28%	2.16%	2.08%						
AEO 1992					3.35%	2.89%	2.74%	2.49%	2.04%	2.02%	2.27%	2.48%	2.48%	2.52%	2.18%	2.09%	2.00%	2.33%	2.21%	2.16%						
AEO 1993						2.93%	2.85%	2.88%	2.47%	2.33%	2.58%	2.19%	2.09%	2.21%	1.99%	1.98%	2.05%	1.93%	1.84%	1.82%						
AEO 1994							3.21%	2.27%	2.56%	2.53%	2.24%	2.43%	2.46%	2.27%	2.23%	2.41%	2.15%	1.95%	1.94%	2.18%						
AEO 1995								1.90%	2.05%	3.25%	2.50%	2.34%	2.17%	2.02%	2.22%	2.41%	2.45%	2.22%	1.90%	1.83%						
AEO 1996									1.79%	2.98%	2.55%	2.37%	2.45%	2.41%	2.16%	2.07%	2.20%	2.31%	2.09%	1.74%						
AEO 1997										1.59%	2.34%	2.69%	2.20%	2.01%	2.27%	2.15%	2.11%	2.29%	2.15%							
AEO 1998											2.35%	2.14%	2.18%	2.12%	2.02%	1.98%	2.23%	2.30%	2.24%	2.14%						
AEO 1999											1.59%	2.55%	2.11%	2.21%	2.31%	2.25%	2.57%	2.53%	2.53%							
AEO 2000												1.94%	2.50%	2.28%	2.61%	2.65%	2.63%	2.15%	2.14%							
AEO 2001													3.83%	3.51%	3.07%	2.87%	2.99%	2.86%	2.94%							
AEO 2002														3.18%	2.82%	3.12%	2.88%	3.06%								
AEO 2003														3.22%	3.40%	2.85%	2.95%	3.29%								
AEO 2004															3.75%	3.83%	3.48%	3.39%								
AEO 2005																3.57%	3.00%	3.38%								
AEO 2006																	3.29%	3.15%								
AEO 2007																		3.32%	2.46%							
AEO 2008																			2.14%							
Growth Rate, Real GDP	3.47%	3.38%	4.13%	3.54%	1.88%	-0.17%	3.33%	2.67%	4.02%	2.50%	3.70%	4.50%	4.18%	4.45%	3.66%	0.75%	1.60%	2.51%	3.64%	3.07%	2.87%	2.19%				
Average Absolute Difference (All AEOs)	0.7%	0.4%	1.3%	0.8%	0.8%	2.7%	0.5%	0.4%	1.6%	0.3%	1.4%	2.1%	1.8%	2.1%	1.3%	1.7%	0.7%	0.4%	1.2%	0.6%	0.5%	0.5%				

Table 3. Gross Domestic Product, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007			
AEO 1982	-0.2%	-0.3%	-1.6%	-0.9%	1.2%																					
AEO 1983	-0.1%	0.2%	-1.0%	-0.9%	0.7%																					
AEO 1984	-1.3%	0.6%	-0.4%	-0.5%	0.9%																					
AEO 1985	-1.3%	0.2%	-1.1%	0.1%	1.3%	3.2%	-0.5%	-0.4%	-1.8%	-0.1%																
AEO 1986	-0.9%	-1.1%	-1.7%	0.9%	3.3%	-0.8%	-0.4%	-1.7%	-0.2%	-1.4%	-2.1%	-1.7%	-1.9%	-1.1%												
AEO 1987	-2.3%	-0.8%	0.8%	2.9%	-0.5%	-0.2%	-2.1%	-0.9%																		
AEO 1989*	-0.7%	0.6%	2.8%	-0.8%	-0.3%	-1.6%	-0.2%	-1.2%	-2.4%	-1.8%	-1.8%	-1.0%														
AEO 1990	-0.1%									0.1%													0.1%			
AEO 1991				1.3%	0.0%	-0.8%	-2.2%	-0.3%	-1.1%	-1.8%	-1.7%	-2.0%	-1.2%	1.9%	0.7%	-0.4%	-1.7%	-0.8%	-0.7%	-0.1%						
AEO 1992					0.0%	0.2%	-1.3%	0.0%	-1.7%	-2.5%	-1.9%	-2.0%	-1.2%	1.8%	0.6%	-0.4%	-1.6%	-0.7%	-0.7%	0.0%						
AEO 1993						0.3%	-1.2%	0.4%	-1.2%	-2.2%	-1.6%	-2.3%	-1.6%	1.5%	0.4%	-0.5%	-1.6%	-1.1%	-1.0%	-0.4%						
AEO 1994							-0.8%	-0.2%	-1.1%	-2.0%	-1.9%	-2.0%	-1.2%	1.5%	0.6%	-0.1%	-1.5%	-1.1%	-0.9%	0.0%						
AEO 1995								-0.6%	-1.7%	-1.2%	-1.7%	-2.1%	-1.5%	1.3%	0.6%	-0.1%	-1.2%	-0.8%	-1.0%	-0.4%						
AEO 1996									-1.9%	-1.5%	-1.6%	-2.1%	-1.2%	1.7%	0.6%	-0.4%	-1.4%	-0.8%	-0.8%	-0.4%						
AEO 1997										-2.9%	-1.8%	-1.0%	1.4%	0.4%	-0.2%	-1.5%	-0.8%	-0.6%	-1.0%	-0.6%	0.0%					
AEO 1998											-1.8%	-2.3%	-1.5%	1.4%	0.4%	-0.5%	-1.4%	-0.8%	-0.6%	-0.6%	0.0%					
AEO 1999											-2.9%	-1.1%	-1.4%	1.4%	0.6%	-0.2%	-1.4%	-0.5%	-0.3%	0.3%						
AEO 2000												-1.7%	1.8%	0.7%	0.1%	-1.0%	-0.4%	-0.7%	0.0%							
AEO 2001													3.1%	1.9%	0.6%	-0.8%	-0.1%	0.0%	0.8%	0.9%	0.8%	0.8%	0.8%			
AEO 2002														0.6%	0.7%	-0.8%	0.1%	0.0%	0.9%							
AEO 2003															0.7%	0.8%	-0.2%	-0.2%	0.1%	1.1%						
AEO 2004																0.1%	0.8%	0.6%	1.2%							
AEO 2005																	0.5%	0.1%	1.2%							
AEO 2006																		0.4%	1.0%							
AEO 2007																		0.4%	0.3%							
AEO 2008																			0.0%							
Average Absolute Difference (All AEOs)	0.7%	0.4%	1.3%	0.8%	0.8%	2.7%	0.5%	0.4%	1.6%	0.3%	1.4%	2.1%	1.8%	2.1%	1.4%	1.7%	0.7%	0.4%	1.2%	0.6%	0.5%	0.5%				

* There is no report titled Annual Energy Outlook 1988 due to a change in the naming convention of the AEOs.

Note: For forecasts with 5-year intervals published, average annual compound growth rates are compared with average annual compound growth in real GDP.

Sources: Forecasts: Annual Energy Outlook, Mid-Price or Reference Case Projections, Various Editions.

Historical Data: Bureau of Economic Analysis, US Dept. of Commerce, <http://www.bea.gov/national/xls/gdplev.xls>, July 2008.

Prior Version of Table 3. Gross Domestic Product, Projected vs. Actual -- To Be Discontinued

(Nominal \$Billions)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	
AEO 1982	3,939	4,306	4,733	5,201	5,712	6,288																		
AEO 1983	3,919	4,264	4,650	5,086	5,549	6,053																		
AEO 1984	3,910	4,191	4,589	5,031	5,490	5,979																		
AEO 1985	3,882	4,103	4,436	4,793	5,207	5,658	6,158	6,702	7,252	7,836	8,486													
AEO 1986	4,203	4,434	4,741	5,015	5,371	5,795	6,244	6,726	7,270	7,875	8,524	9,226	9,973	10,764	11,600									
AEO 1987		4,483	4,701	5,035	5,389	5,773	6,190	6,666	7,175	7,716														
AEO 1989*			4,857	5,182	5,575	6,013	6,483	6,987	7,525	8,106	8,756	9,400	10,103	10,863	11,632									
AEO 1990				5,236	5,550											11,329								
AEO 1991					5,457	5,695	6,078	6,399	6,738	7,145	7,607	8,099	8,629	9,197	9,828	10,527	11,255	12,005	12,774	13,648	14,562	15,528		
AEO 1992						5,648	5,992	6,346	6,710	7,115	7,530	7,968	8,456	8,991	9,573	10,209	10,872	11,572	12,308	13,146	14,023	14,950		
AEO 1993							5,941	6,339	6,714	7,117	7,542	7,995	8,509	9,027	9,591	10,224	10,881	11,573	12,316	13,090	13,909	14,780		
AEO 1994								6,264	6,622	6,944	7,298	7,679	8,070	8,508	8,989	9,483	10,011	10,588	11,172	11,781	12,429	13,143		
AEO 1995									6,761	7,090	7,418	7,837	8,244	8,676	9,134	9,613	10,152	10,744	11,382	12,025	12,679	13,338		
AEO 1996										7,057	7,355	7,754	8,151	8,576	9,039	9,543	10,059	10,606	11,214	11,892	12,580	13,246		
AEO 1997											7,585	7,883	8,268	8,708	9,181	9,646	10,120	10,661	11,234	11,840	12,512	13,213		
AEO 1998												8,060	8,439	8,828	9,248	9,690	10,147	10,622	11,152	11,729	12,338	12,975		
AEO 1999													8,478	8,771	9,178	9,592	10,035	10,494	10,960	11,486	12,053	12,660		
AEO 2000													8,950	9,265	9,662	10,070	10,536	11,034	11,572	12,081	12,610			
AEO 2001														9,975	10,578	11,159	11,752	12,355	12,999	13,640	14,311			
AEO 2002															10,198	10,618	11,271	11,899	12,592	13,306	14,075			
AEO 2003																10,473	11,112	11,780	12,377	13,000	13,679			
AEO 2004																	10,849	11,416	12,088	12,765	13,477			
AEO 2005																		11,728	12,385	12,978	13,668			
AEO 2006																			12,472	13,134	13,785			
AEO 2007																				13,264	13,893			
AEO 2008																						13,830		
Nominal GDP	4,220	4,463	4,740	5,104	5,484	5,803	5,996	6,338	6,657	7,072	7,398	7,817	8,304	8,747	9,268	9,817	10,128	10,470	10,961	11,686	12,434	13,195	13,841	
Average Absolute Difference (All AEOs)	308	250	185	216	256	303	209	250	285	370	666	448	518	551	629	789	397	395	436	485	717	596	609	

Prior Version of Table 3. Gross Domestic Product, Projected vs. Actual -- To Be Discontinued

(percent difference)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	
AEO 1982	-6.7	-3.5	-0.1	1.9	4.2	8.4																		
AEO 1983	-7.1	-4.5	-1.9	-0.4	1.2	4.3																		
AEO 1984	-7.3	-6.1	-3.2	-1.4	0.1	3.0																		
AEO 1985	-8.0	-8.1	-6.4	-6.1	-5.1	-2.5	2.7	5.7	8.9	10.8	14.7													
AEO 1986		-5.8	-6.5	-7.1	-8.6	-7.4	-3.4	-1.5	1.0	2.8	6.4	9.0	11.1	14.0	16.1	18.2								
AEO 1987		-5.4	-7.9	-8.2	-7.1	-3.7	-2.3	0.1	1.5	4.3														
AEO 1989*			-4.8	-5.5	-3.9	0.3	2.3	5.0	6.4	9.6	12.0	13.2	15.5	17.2	18.5									
AEO 1990				-4.5	-4.4					6.6						15.4								
AEO 1991					-6.0	-5.0	-4.1	-3.9	-4.7	-3.4	-2.7	-2.5	-1.3	-0.8	0.1	3.9	7.5	9.5	9.3	9.8	10.4	12.2		
AEO 1992						-5.8	-5.5	-4.7	-5.1	-3.8	-3.7	-4.0	-3.3	-3.0	-2.5	0.8	3.8	5.6	5.3	5.7	6.3	8.0		
AEO 1993							-6.3	-4.8	-5.1	-3.8	-3.5	-3.7	-2.7	-2.6	-2.3	0.9	3.9	5.6	5.4	5.3	5.4	6.8		
AEO 1994								-5.9	-6.4	-6.1	-6.6	-7.5	-7.7	-8.2	-8.4	-6.4	-4.4	-3.4	-4.4	-5.2	-5.8	-5.0		
AEO 1995									-4.4	-4.2	-5.1	-5.6	-5.8	-6.4	-7.0	-5.1	-3.0	-2.0	-2.6	-3.3	-3.9	-3.6		
AEO 1996										-4.6	-5.9	-6.6	-6.8	-7.5	-7.9	-8.4	-3.2	-4.0	-4.4	-4.7	-4.3			
AEO 1997											-3.0	-5.1	-5.5	-6.0	-6.5	-4.8	-3.3	-2.7	-3.9	-4.8	-5.2	-4.5		
AEO 1998											-2.9	-3.5	-4.8	-5.4	-6.5	-4.2	-3.1	-3.1	-4.6	-5.7	-6.5	-6.3		
AEO 1999												-3.1	-3.1	-4.2	-4.3	-6.2	-6.5	-7.6	-8.7	-8.5				
AEO 2000												-3.4	-5.6	-4.6	-3.8	-3.9	-5.6	-6.9	-8.4	-8.9				
AEO 2001													1.6	4.4	6.6	7.2	5.7	4.5	3.4	3.4				
AEO 2002													0.7	1.4	2.8	1.8	1.3	0.8	1.7					
AEO 2003														0.0	1.4	0.8		-0.5	-1.5	-1.2				
AEO 2004															-1.0	-2.3	-2.8	-3.3	-2.6					
AEO 2005																0.4	-0.4	-1.6	-1.3					
AEO 2006																	0.3	-0.5	-0.4					
AEO 2007																	0.5	0.4						
AEO 2008																		-0.1						
Average Absolute Percent Difference (All AEOs)	7.3	5.6	3.9	4.2	4.7	5.2	3.5	4.0	4.3	5.2	9.0	5.7	6.2	6.3	6.8	8.0	3.9	3.8	4.0	4.2	5.8	4.5	4.4	

* There is no report titled Annual Energy Outlook 1988 due to a change in the naming convention of the AEOs.

Sources: Forecasts: Annual Energy Outlook, Mid-Price or Reference Case Projections, Various Editions.

Historical Data: Bureau of Economic Analysis, US Dept. of Commerce, <http://www.bea.gov/national/xls/gdlev.xls>, July 2008.

Table 4. World Oil Prices, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007		
AEO 1982	29.66	34.82	41.43	48.04	53.75	59.06																			
AEO 1983	28.99	29.39	32.67	39.32	46.07	53.22																			
AEO 1984	29.07	29.39	30.97	33.96	37.23	40.82																			
AEO 1985	27.00	25.86	24.83	26.05	29.69	33.75	36.96	40.54	42.89	46.92	49.65														
AEO 1986		14.57	15.87	17.30	18.86	20.64	22.25	25.37	29.75	34.85	39.91	44.86	49.71	54.30	58.99	64.42									
AEO 1987			18.11	17.30	18.91	19.93	20.90	21.77	23.99	27.50	32.03														
AEO 1989*				14.70	14.93	16.33	17.75	19.15	21.68	25.21	28.91	33.29	37.81	42.47	46.36	49.98									
AEO 1990					17.70	17.49					26.58														
						22.00	24.77	25.59	26.45	27.34	28.37	29.44	30.54	32.03	34.28	36.89	39.84	43.34	47.08	50.99	55.23	59.36	63.56		
AEO 1991							19.03	20.06	20.65	22.27	24.20	26.31	28.66	31.17	33.96	36.96	39.90	42.96	46.05	49.18	52.53	55.91	59.47		
AEO 1992								18.86	20.25	21.24	22.45	23.68	25.02	26.71	28.64	31.02	33.48	36.27	38.90	41.21	43.63	46.40	49.52		
AEO 1993									17.06	17.21	18.24	19.43	20.64	22.12	23.76	25.52	27.51	29.67	31.86	34.00	36.05	38.36	40.78		
AEO 1994										15.24	17.27	18.23	19.26	20.39	21.59	22.97	24.33	25.79	27.27	28.82	30.38	32.14	33.89		
AEO 1995											17.16	17.74	18.59	19.72	20.97	22.34	23.81	25.26	26.72	28.22	29.87	31.51	33.13		
AEO 1996												19.99	19.42	19.55	20.07	20.59	21.68	22.71	23.75	24.78	25.87	26.94	28.06		
AEO 1997													18.54	18.79	19.87	20.95	21.79	22.53	23.46	24.34	25.27	26.04	27.00		
AEO 1998														12.50	13.64	14.67	16.35	17.87	19.64	21.14	22.59	24.20	25.72		
AEO 1999															17.35	21.80	20.99	21.52	22.05	22.62	23.23	23.85	24.51		
AEO 2000																28.21	24.86	22.82	22.36	23.04	23.65	24.25	24.85		
AEO 2001																	22.99	21.99	24.00	24.86	25.66	26.50	27.36		
AEO 2002																		23.65	26.92	25.70	25.40	26.10	26.75		
AEO 2003																			27.65	24.54	24.45	25.14	25.87		
AEO 2004																			35.74	35.40	31.78	29.52			
AEO 2005																				50.97	56.42	54.75			
AEO 2006																					63.64	62.68			
AEO 2007																						63.72			
AEO 2008																									
Actual	26.99	14.00	18.13	14.56	18.08	21.76	18.70	18.20	16.14	15.51	17.14	20.64	18.53	12.04	17.26	27.70	22.00	23.71	27.71	35.90	48.86	59.02	67.02		
Average Absolute Difference (All AEOs)	1.7	12.8	9.9	13.5	12.4	12.5	5.2	6.3	9.2	11.0	19.8	6.8	8.3	15.2	11.6	11.7	5.7	5.7	6.2	9.8	17.4	23.2	28.1		

Table 4. World Oil Prices, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	
AEO 1982	9.9	148.7	128.5	229.9	197.3	171.4																		
AEO 1983	7.4	110.0	80.2	170.0	154.8	144.6																		
AEO 1984	7.7	110.0	70.8	133.2	105.9	87.6																		
AEO 1985	0.0	84.7	36.9	78.9	64.2	55.1	97.7	122.7	165.8	202.5	189.6													
AEO 1986		4.1	-12.5	18.8	4.3	-5.2	19.0	39.4	84.3	124.7	132.9	117.3	168.3	351.0	241.7	132.5								
AEO 1987			-0.1	18.8	4.6	-8.4	11.8	19.6	48.7	77.3	86.9													
AEO 1989*				1.0	-17.4	-24.9	-5.1	5.2	34.3	62.5	68.7	61.3	104.1	252.7	168.6	80.4								
AEO 1990					-2.1	-19.6					55.1													
AEO 1991						1.1	32.4	40.6	63.9	76.3	65.5	42.6	64.8	166.0	98.6	33.2	81.1	82.8	69.9	42.0	13.0	0.6	-5.2	
AEO 1992							1.8	10.2	28.0	43.6	41.2	27.5	54.7	158.9	96.7	33.4	81.4	81.2	66.2	37.0	7.5	-5.3	-11.3	
AEO 1993								3.6	25.5	36.9	31.0	14.7	35.0	121.8	65.9	12.0	52.2	53.0	40.4	14.8	-10.7	-21.4	-26.1	
AEO 1994									5.7	10.9	6.4	-5.9	11.4	83.7	37.7	-7.9	25.0	25.1	15.0	-5.3	-26.2	-35.0	-39.2	
AEO 1995										-1.8	0.8	-11.7	4.0	69.4	25.1	-17.1	10.6	8.8	-1.6	-19.7	-37.8	-45.5	-49.4	
AEO 1996										0.1	-14.0	0.3	63.8	21.5	-19.3	8.2	6.5	-3.6	-21.4	-38.9	-46.6	-50.6		
AEO 1997											-3.1	4.8	62.4	16.3	-25.7	-1.5	-4.2	-14.3	-31.0	-47.1	-54.3	-58.1		
AEO 1998											0.0	56.1	15.1	-24.4	-1.0	-5.0	-15.3	-32.2	-48.3	-55.9	-59.7			
AEO 1999												3.8	-21.0	-47.0	-25.7	-24.6	-29.1	-41.1	-53.8	-59.0	-61.6			
AEO 2000													0.5	-21.3	-4.6	-9.2	-20.4	-37.0	-52.5	-59.6	-63.4			
AEO 2001														1.8	13.0	-3.7	-19.3	-45.0	-50.0	-57.4	-61.4			
AEO 2002															4.5	-7.3	-13.4	-30.8	-47.5	-55.1	-59.2			
AEO 2003																-0.3	-2.9	-28.4	-48.0	-55.8	-60.1			
AEO 2004																	-0.2	-31.7	-50.0	-57.4	-61.4			
AEO 2005																	-0.4	-27.6	-46.2	-56.0				
AEO 2006																		4.3	-4.4	-18.3				
AEO 2007																		7.8	-6.5	-4.9				
Average Absolute Percent Difference (All AEOs)	6.3	91.5	54.8	93.0	68.8	57.5	28.0	34.5	57.0	70.7	115.5	33.1	44.7	126.3	67.4	42.1	25.7	24.0	22.3	27.2	35.6	39.3	41.9	

* There is no report titled Annual Energy Outlook 1988 due to a change in the naming convention of the AEOs.

Sources: Forecasts: Annual Energy Outlook, Mid-Price or Reference Case Projections, Various Editions, "Imported Crude Oil Price" (which is average imported refiners' acquisition cost for crude oil -- "IRAC").

Historical Data: Energy Information Administration, Annual Energy Review 2007, DOE/EIA-0384(2007) (Washington, DC, June 23, 2008), Table 5.21.

Table 5. Total Petroleum Consumption, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007		
AEO 1982	18.00	17.89	17.55	17.24	16.98	16.99																			
AEO 1983	15.82	16.13	16.37	16.50	16.56	16.63																			
AEO 1984	15.77	15.76	16.01	16.27	16.48	16.74																			
AEO 1985	15.72	15.74	15.97	16.01	16.06	16.08	16.18	16.23	16.32	16.36	16.53														
AEO 1986		16.07	16.29	16.05	16.07	16.15	16.31	16.37	16.42	16.44	16.46	16.50	16.64	16.80	17.21	17.38									
AEO 1987			16.52	16.66	16.96	17.06	17.29	17.56	17.73	17.76	17.72	17.78	17.82	18.05	18.12	18.19	18.40	18.61							
AEO 1989*				17.01	17.20	17.44	17.57	17.72	17.76	17.78	17.82	18.05	18.12	18.19	18.40	18.61									
AEO 1990					17.24	17.41																			
AEO 1991						16.95	16.65	16.83	17.01	17.17	17.34	17.53	17.83	18.09	18.33	18.53	18.87	19.12	19.24	19.27	19.49	19.66	19.81		
AEO 1992							16.74	17.07	17.37	17.59	17.80	17.86	17.99	18.14	18.26	18.43	18.70	18.90	19.09	19.16	19.40	19.58	19.73		
AEO 1993								17.07	17.45	17.79	18.15	18.26	18.60	18.88	19.07	19.25	19.54	19.75	19.98	20.15	20.38	20.53	20.65		
AEO 1994									17.67	17.99	18.20	18.42	18.66	18.85	19.06	19.34	19.52	19.74	19.99	20.21	20.40	20.61	20.81		
AEO 1995										17.53	17.93	17.96	18.29	18.48	18.69	18.87	19.08	19.31	19.58	19.85	20.10	20.29	20.47		
AEO 1996											17.78	17.88	18.10	18.38	18.58	18.78	19.02	19.20	19.41	19.66	19.89	20.08	20.23		
AEO 1997												18.18	18.34	18.70	19.05	19.38	19.68	19.91	20.19	20.44	20.68	20.94	21.18		
AEO 1998													18.89	18.92	19.36	19.62	19.94	20.27	20.52	20.81	21.15	21.53	21.81		
AEO 1999														18.86	19.20	19.91	20.23	20.47	20.65	20.88	21.16	21.48	21.78		
AEO 2000															19.33	19.56	19.91	20.17	20.42	20.76	21.08	21.41	21.72		
AEO 2001																19.50	20.04	20.36	20.62	20.91	21.21	21.52	21.82		
AEO 2002																	19.64	19.84	20.51	20.90	21.27	21.59	21.95		
AEO 2003																		19.57	19.83	20.18	20.49	20.91	21.40		
AEO 2004																			19.89	20.16	20.84	21.29	21.69		
AEO 2005																				20.50	20.91	21.30	21.72		
AEO 2006																					20.82	21.16	21.21		
AEO 2007																						20.67	20.94		
AEO 2008																							20.66		
Actual	15.73	16.28	16.67	17.33	17.33	16.99	16.71	17.08	17.24	17.72	17.72	18.36	18.62	18.92	19.52	19.76	19.65	19.76	20.03	20.79	20.80	20.69	20.70		
Average Absolute Difference (All AEOs)	0.60	0.61	0.51	0.80	0.63	0.37	0.41	0.42	0.47	0.44	0.41	0.52	0.54	0.53	0.81	0.82	0.39	0.40	0.43	0.58	0.53	0.57	0.68		

Table 5. Total Petroleum Consumption, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	
AEO 1982	14.5	9.9	5.3	-0.5	-2.0	0.0																		
AEO 1983	0.6	-0.9	-1.8	-4.8	-4.4	-2.1																		
AEO 1984	0.3	-3.2	-3.9	-6.1	-4.9	-1.5																		
AEO 1985	0.0	-3.3	-4.2	-7.6	-7.3	-5.3	-3.2	-5.0	-5.3	-7.7	-6.7	-7.1	-10.1	-10.6	-11.2	-11.8	-12.0							
AEO 1986	-1.3	-2.3	-7.4	-7.2	-4.9	-2.4	-4.2	-4.7	-7.2	-7.1														
AEO 1987		-0.9	-3.9	-2.1	0.4	3.4	2.8	2.9	0.2	0.0														
AEO 1989*		-1.9	-0.7	2.7	5.1	3.7	3.0	0.3	0.5	-1.7	-2.7	-3.8	-5.7	-5.8										
AEO 1990		-0.5	2.5							2.7														
AEO 1991		-0.2	-0.4	-1.5	-1.3	-3.1	-2.2	-4.5	-4.2	-4.4	-6.1	-6.2	-4.0	-3.2	-4.0	-7.3	-6.3	-5.0	-4.3					
AEO 1992			0.2	-0.1	0.8	-0.7	0.4	-2.7	-3.4	-4.1	-6.5	-6.7	-4.8	-4.4	-4.7	-7.8	-6.7	-5.4	-4.7					
AEO 1993				-0.1	1.2	0.4	2.4	-0.5	-0.1	-0.2	-2.3	-2.6	-0.6	-0.1	-0.3	-3.1	-2.0	-0.8	-0.2					
AEO 1994					2.5	1.5	2.7	0.3	0.2	-0.4	-2.4	-2.1	-0.7	-0.1	-0.2	-2.8	-1.9	-0.4	-0.5	0.5				
AEO 1995						-1.1	1.2	-2.2	-1.8	-2.3	-4.2	-4.5	-2.9	-2.3	-2.3	-4.5	-3.4	-1.9	-1.1					
AEO 1996							0.3	-2.6	-2.8	-2.8	-4.8	-4.9	-3.2	-2.8	-3.1	-5.4	-4.4	-2.9	-2.3					
AEO 1997								-1.0	-1.5	-1.1	-2.4	-1.9	0.2	0.8	0.8	-1.7	-0.6	1.2	2.3					
AEO 1998									1.4	0.0	-0.8	-0.7	1.5	2.6	2.4	0.1	1.7	4.1	5.4					
AEO 1999										-1.6	0.8	2.9	3.6	3.1	0.4	1.7	3.8	5.2						
AEO 2000										-0.3	-1.0	1.3	2.1	1.9	-0.1	1.3	3.5	4.9						
AEO 2001										-1.0	-1.0	2.0	3.0	2.9	0.6	1.9	4.0	5.4						
AEO 2002											-1.3	2.0	3.0	2.4	0.5	2.3	4.4	6.1						
AEO 2003												0.0	-1.0	-1.0	-2.9	-1.5	1.1	3.4						
AEO 2004													-0.7	-3.0	0.2	2.9	4.8							
AEO 2005														-1.4	0.5	3.0	4.9							
AEO 2006															0.1	2.3	2.5							
AEO 2007																-0.1	1.2	-0.2						
AEO 2008																								
Average Absolute Percent Difference (All AEOs)	3.8	3.7	3.1	4.6	3.6	2.2	2.5	2.5	2.7	2.5	2.3	2.9	2.9	2.8	4.1	4.2	2.0	2.0	2.1	2.8	2.5	2.7	3.3	

* There is no report titled Annual Energy Outlook 1988 due to a change in the naming convention of the AEOs.

Sources: Forecasts: Annual Energy Outlook, Mid-Price or Reference Case Projections, Various Editions.

Historical Data: Energy Information Administration, Annual Energy Review 2007, DOE/EIA-0384(2007) (Washington, DC, June 23, 2008), Table 5.1.

Table 6. Domestic Crude Oil Production, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007			
AEO 1982	8.79	8.85	8.84	8.80	8.66	8.21																				
AEO 1983	8.67	8.71	8.66	8.72	8.80	8.63																				
AEO 1984	8.86	8.70	8.59	8.45	8.28	8.25																				
AEO 1985	8.92	8.96	9.01	8.78	8.38	8.05	7.64	7.27	6.89	6.68	6.53															
AEO 1986		8.80	8.63	8.30	7.90	7.43	6.95	6.60	6.36	6.20	5.99	5.80	5.66	5.54	5.45	5.43										
AEO 1987			8.31	8.18	8.00	7.63	7.34	7.09	6.86	6.64	6.54															
AEO 1989*				8.18	7.97	7.64	7.25	6.87	6.59	6.37	6.17	6.05	6.00	5.94	5.90	5.89										
AEO 1990					7.67	7.37					6.40													5.35		
AEO 1991						7.23	6.98	7.10	7.11	7.01	6.79	6.48	6.22	5.92	5.64	5.36	5.11	4.90	4.73	4.62	4.59	4.58	4.53			
AEO 1992							7.37	7.17	6.99	6.89	6.68	6.45	6.28	6.16	6.06	5.91	5.79	5.71	5.66	5.64	5.62	5.63	5.62			
AEO 1993								7.20	6.94	6.79	6.52	6.22	6.00	5.84	5.72	5.60	5.54	5.50	5.50	5.51	5.50	5.50	5.54			
AEO 1994									6.87	6.50	6.18	5.92	5.72	5.54	5.35	5.18	5.07	5.00	4.93	4.88	4.84	4.82	4.87			
AEO 1995									6.58	6.32	6.04	5.74	5.58	5.39	5.35	5.27	5.25	5.22	5.19	5.16	5.17	5.17				
AEO 1996										6.54	6.33	6.16	5.95	5.79	5.65	5.51	5.42	5.35	5.31	5.25	5.26	5.28				
AEO 1997										6.47	6.32	6.15	6.02	5.87	5.73	5.63	5.57	5.52	5.49	5.47	5.45					
AEO 1998										6.41	6.39	6.28	6.17	6.08	6.01	5.94	5.88	5.82	5.77	5.72						
AEO 1999										6.41	6.33	6.29	6.21	6.05	5.95	5.87	5.82	5.79	5.73							
AEO 2000										6.01	5.98	5.81	5.65	5.52	5.43	5.36	5.31	5.26								
AEO 2001											5.89	5.92	6.04	6.01	5.78	5.65	5.46	5.36								
AEO 2002											5.84	5.85	5.68	5.50	5.38	5.32	5.32									
AEO 2003											5.89	5.81	5.66	5.58	6.01	6.06										
AEO 2004											5.69	5.80	5.86	5.93	6.09											
AEO 2005												5.64	5.82	6.03	6.09											
AEO 2006													5.33	5.50	5.54											
AEO 2007														5.10	5.48											
AEO 2008															5.10											
Actual	8.97	8.68	8.35	8.16	7.61	7.36	7.42	7.19	6.85	6.66	6.56	6.48	6.45	6.25	5.88	5.84	5.80	5.75	5.68	5.43	5.18	5.10	5.10			
Average Absolute Difference (All AEOs)	0.2	0.1	0.3	0.3	0.6	0.5	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4			

Table 6. Domestic Crude Oil Production, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007			
AEO 1982	-2.0	2.0	5.9	7.8	13.8	11.6																				
AEO 1983	-3.4	0.3	3.7	6.8	15.6	17.3																				
AEO 1984	-1.2	0.2	2.9	3.5	8.8	12.2																				
AEO 1985	-0.6	3.2	7.9	7.6	10.1	9.4	3.0	1.1	0.6	0.3	0.5															
AEO 1986	1.4	3.4	1.7	3.8	1.0	-6.3	-8.2	-7.1	-6.9	-8.7	-10.5	-12.3	-11.4	-7.3	-7.0											
AEO 1987		-0.5	0.2	5.1	3.7	-1.0	-1.4	0.2	-0.3	-0.3	-0.6	-4.0	-7.0	-6.6	-2.7	-4.1	-4.5	-4.3	-3.2	1.4	6.2	7.8	8.6			
AEO 1989*			0.2	4.7	3.9	-2.2	-4.5	-3.7	-4.4	-5.9	-6.7	-7.0	-5.0	0.3	0.9	0.4	3.3									
AEO 1990				0.7	0.2					-2.4																
AEO 1991					-1.7	-5.9	-1.3	3.8	5.2	3.5	0.0	-3.6	-5.3	-4.1	-8.2	-11.9	-14.7	-16.7	-15.0	-11.4	-10.2	-11.2				
AEO 1992						-0.6	-0.3	2.1	3.4	1.8	-0.5	-2.7	-1.5	3.0	1.2	-0.2	-0.6	-0.4	3.8	8.5	10.3	10.1				
AEO 1993							0.1	1.4	1.9	-0.6	-4.0	-7.0	-6.6	-2.7	-4.1	-4.5	-4.3	-3.2	1.4	6.2	7.8	8.6				
AEO 1994								0.3	-2.4	-5.8	-8.7	-11.3	-11.4	-9.0	-11.3	-12.6	-13.0	-13.2	-10.2	-6.5	-5.5	-4.6				
AEO 1995									-1.2	-3.7	-6.8	-11.0	-10.7	-8.4	-8.4	-9.2	-8.6	-8.1	-4.5	-0.4	1.3	1.3				
AEO 1996										-0.3	-2.3	-4.5	-4.8	-4.8	-1.6	-3.2	-5.0	-5.7	-5.8	-2.3	1.4	3.1	3.5			
AEO 1997											-0.2	-2.0	-1.6	2.4	0.6	-1.2	-2.0	-1.9	1.6	6.0	7.2	6.8				
AEO 1998												-0.6	2.2	6.7	5.7	4.8	4.5	4.6	8.2	12.4	13.0	12.0				
AEO 1999													2.5	7.6	7.8	7.0	5.3	4.7	7.9	12.3	13.5	12.3				
AEO 2000														2.1	2.4	0.2	-1.6	-2.8	-0.1	3.5	4.1					
AEO 2001															1.0	2.1	5.1	5.8	6.4	9.1	7.1	5.1				
AEO 2002																0.7	1.8	0.0	1.3	3.8	4.4	4.3				
AEO 2003																	2.5	2.3	4.1	7.8	17.8	18.7				
AEO 2004																		0.1	6.7	13.2	16.3	19.3				
AEO 2005																		3.8	12.4	18.1	19.3					
AEO 2006																		2.8	7.8							
AEO 2007																		-0.1	7.4							
AEO 2008																		0.0								
Average Absolute Percent Difference (All AEOs)	1.8	1.4	4.0	4.0	7.8	6.8	3.2	2.4	2.4	2.9	5.1	4.4	6.2	5.7	4.6	4.3	5.0	5.4	5.0	5.2	7.1	8.7	8.7			

* There is no report titled Annual Energy Outlook 1988 due to a change in the naming convention of the AEOs.

Sources: Forecasts: Annual Energy Outlook, Mid-Price or Reference Case Projections, Various Editions.

Historical Data: Energy Information Administration, Annual Energy Review 2007, DOE/EIA-0384(2007) (Washington, DC, June 23, 2008), Table 5.1.

Table 7. Petroleum Net Imports, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007													
AEO 1982	7.58	7.45	7.12	6.82	6.66	7.09																														
AEO 1983	5.15	5.44	5.73	5.79	5.72	5.95																														
AEO 1984	4.85	5.11	5.53	5.95	6.31	6.59																														
AEO 1985	4.17	4.38	4.73	4.93	5.36	5.72	6.23	6.66	7.14	7.39	7.74																									
AEO 1986		5.15	5.38	5.46	5.92	6.46	7.09	7.50	7.78	7.96	8.20	8.47	8.74	9.04	9.57	9.76																				
AEO 1987			5.81	6.04	6.81	7.28	7.82	8.34	8.71	8.94	8.98					10.01																				
AEO 1989*				6.28	6.84	7.49	7.96	8.53	8.83	9.04	9.28	9.60	9.64	9.75	10.02	10.20																				
AEO 1990						7.20	7.61																													
AEO 1991							7.28	7.25	7.34	7.48	7.72	8.10	8.57	9.09	9.61	10.07	10.51	11.00	11.44	11.72	11.86	12.11	12.30	12.49												
AEO 1992								6.86	7.42	7.88	8.16	8.55	8.80	9.06	9.32	9.50	9.80	10.17	10.35	10.56	10.61	10.85	11.00	11.15												
AEO 1993									7.25	8.01	8.49	9.06	9.38	9.92	10.29	10.53	10.77	11.09	11.31	11.50	11.63	11.86	12.01	12.08												
AEO 1994										8.04	8.77	9.21	9.60	10.02	10.24	10.63	10.94	11.23	11.54	11.79	12.05	12.26	12.44	12.56												
AEO 1995											8.09	8.65	8.99	9.56	9.88	10.25	10.46	10.74	10.96	11.24	11.53	11.79	11.95	12.11												
AEO 1996												8.25	8.51	8.82	9.31	9.64	10.08	10.43	10.66	10.90	11.15	11.41	11.54	11.67												
AEO 1997													8.49	8.89	9.58	10.04	10.48	10.89	11.19	11.48	11.74	12.00	12.23	12.47												
AEO 1998														9.05	9.29	10.01	10.17	10.62	11.11	11.33	11.78	12.10	12.48	12.71												
AEO 1999															9.26	9.43	10.65	11.02	11.38	11.61	11.88	12.17	12.45	12.74												
AEO 2000																9.86	10.54	11.06	11.47	11.84	12.23	12.54	12.85	13.10												
AEO 2001																	10.17	10.95	11.04	11.27	11.75	12.15	12.62	13.01												
AEO 2002																		10.55	10.94	11.48	12.04	12.50	12.75	13.01												
AEO 2003																			10.35	11.10	11.11	11.49	11.47	11.88												
AEO 2004																				10.99	11.41	11.53	11.87	12.05												
AEO 2005																					11.66	11.91	11.80	12.11												
AEO 2006																						12.45	12.43	11.96												
AEO 2007																							12.47	11.77												
AEO 2008																								12.08												
Actual	4.29	5.44	5.91	6.60	7.20	7.16	6.63	6.96	7.62	8.05	7.89	8.52	9.16	9.76	9.91	10.45	10.90	10.55	11.24	12.13	12.55	12.39	12.04													
Average Absolute Difference (All AEOs)	1.2	0.7	0.6	0.8	0.8	0.6	0.7	0.7	0.5	0.5	0.8	0.4	0.4	0.4	0.3	0.3	0.2	0.6	0.3	0.5	0.7	0.4	0.4													

Table 7. Petroleum Net Imports, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007						
AEO 1982	76.8	37.0	20.4	3.3	-7.5	-1.0																							
AEO 1983	20.2	0.0	-3.1	-12.3	-20.6	-16.9																							
AEO 1984	13.2	-6.0	-6.5	-9.9	-12.4	-8.0																							
AEO 1985	-2.7	-19.5	-20.0	-25.4	-25.6	-20.1	-6.0	-4.3	-6.3	-8.2	-1.8																		
AEO 1986	-5.3	-9.0	-17.3	-17.8	-9.8	7.0	7.8	2.1	-1.2	4.0	-0.6	-4.6	-7.4	-3.5	-6.6														
AEO 1987	-1.8	-8.5	-5.4	1.7	18.0	19.9	14.3	11.0	13.9																				
AEO 1989*	-4.9	-5.0	4.6	20.1	22.6	15.9	12.2	17.7	12.7	5.3	-0.1	1.1	-2.4																
AEO 1990	0.0	6.3								15.8																			
AEO 1991	1.7	9.4	5.5	-1.8	-4.1	2.7	0.6	-0.7	-1.6	1.6	0.6	0.9	8.5	4.3	-2.2	-3.5	-0.7	3.7											
AEO 1992	3.5	6.7	3.4	1.3	8.4	3.3	-1.1	-4.5	-4.2	-6.2	-6.7	-1.9	-6.0	-12.5	-13.5	-11.2	-7.4												
AEO 1993	4.2	5.1	5.4	14.9	10.1	8.3	5.4	6.2	3.1	1.7	7.2	2.3	-4.1	-5.5	-3.1	0.3													
AEO 1994		5.5	8.9	16.8	12.7	9.4	4.9	7.2	4.7	3.0	9.4	4.9	-0.7	-2.3	0.4	4.3													
AEO 1995			0.4	9.7	5.5	4.4	1.3	3.4	0.1	-1.5	3.9	0.0	-4.9	-6.0	-3.6	0.6													
AEO 1996				4.6	-0.1	-3.7	-4.6	-2.7	-3.5	-4.3	1.1	-3.0	-8.1	-9.1	-6.9	-3.1													
AEO 1997					-0.4	-2.9	-1.9	1.3	0.3	-0.1	6.1	2.2	-3.2	-4.4	-1.3	3.6													
AEO 1998					-1.2	-4.9	1.0	-2.6	-2.6	5.3	0.9	-2.9	-3.6	0.7	5.6														
AEO 1999					-5.2	-4.9	2.0	1.1	7.9	3.3	-2.1	-3.0	0.5	5.8															
AEO 2000					-0.5	0.9	1.5	8.8	5.3	0.9	0.0	3.7	8.8	0.8	0.0	3.7	8.8												
AEO 2001						-2.7	0.4	4.6	0.3	-3.1	-3.2	-0.7	-0.4	2.9	8.0														
AEO 2002						-3.2	3.7	2.2	-0.7	-0.4	-0.4	-0.4	-0.4	-0.4	2.9	8.1													
AEO 2003						-1.9	-1.2	-8.4	-8.4	-7.4	-7.4	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2						
AEO 2004						-2.2	-6.0	-4.2	-4.2	-4.2	-4.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1						
AEO 2005						-3.9	-5.1	-4.8	-4.8	-4.8	-4.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8						
AEO 2006						-0.8	0.3	-0.6	-0.6	-0.6	-0.6	0.7	0.7	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3						
AEO 2007						0.7	-0.7	-2.3	-2.3	-2.3	-2.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3						
AEO 2008						0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3						
Average Absolute Difference (All AEOs)	28.2	13.6	10.1	11.7	11.8	7.8	10.7	10.1	6.8	5.9	10.1	5.1	4.2	3.8	3.1	3.0	2.3	5.4	2.7	4.2	5.2	3.2	3.6						

* There is no report titled *Annual Energy Outlook 1988* due to a change in the naming convention of the AEOs.

Sources: Forecasts: *Annual Energy Outlook*, Mid-Price or Reference Case Projections, Various Editions.

Historical Data: Energy Information Administration, Annual Energy Review 2007, DOE/EIA-0384(2007) (Washington, DC, June 23, 2008), Table 5.1.

Table 8. Natural Gas Wellhead Prices, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007		
AEO 1982	4.32	5.47	6.67	7.51	8.04	8.57																			
AEO 1983	2.93	3.11	3.46	3.93	4.56	5.26																			
AEO 1984	2.77	2.90	3.21	3.63	4.13	4.79																			
AEO 1985	2.60	2.61	2.66	2.71	2.94	3.35	3.85	4.46	5.10	5.83	6.67														
AEO 1986		1.73	1.96	2.29	2.54	2.81	3.15	3.73	4.34	5.06	5.90	6.79	7.70	8.62	9.68	10.80									
AEO 1987			1.83	1.95	2.11	2.28	2.49	2.72	3.08	3.51	4.07														
AEO 1989*				1.62	1.70	1.91	2.13	2.58	3.04	3.48	3.93	4.76	5.23	5.80	6.43	6.98									
AEO 1990					1.78	1.88					2.93														
AEO 1991						1.77	1.90	2.11	2.30	2.42	2.51	2.60	2.74	2.91	3.29	3.75	4.31	5.07	5.77	6.45	7.29	8.09	8.94		
AEO 1992							1.69	1.85	2.03	2.15	2.35	2.51	2.74	3.01	3.40	3.81	4.24	4.74	5.25	5.78	6.37	6.89	7.50		
AEO 1993								1.85	1.94	2.09	2.30	2.44	2.60	2.85	3.12	3.47	3.84	4.31	4.81	5.28	5.68	6.05	6.46		
AEO 1994									1.98	2.12	2.27	2.41	2.59	2.73	2.85	2.98	3.14	3.35	3.59	3.85	4.18	4.51	4.92		
AEO 1995										1.89	2.00	1.95	2.06	2.15	2.40	2.57	2.90	3.16	3.56	3.87	4.27	4.56	4.85		
AEO 1996											1.63	1.74	1.86	1.99	2.10	2.19	2.29	2.38	2.48	2.59	2.72	2.84	2.97		
AEO 1997												2.03	1.82	1.90	1.99	2.06	2.13	2.21	2.32	2.43	2.54	2.65	2.77		
AEO 1998													2.30	2.20	2.26	2.31	2.38	2.44	2.52	2.60	2.69	2.79	2.93		
AEO 1999														1.98	2.15	2.20	2.32	2.43	2.53	2.63	2.76	2.90	3.02		
AEO 2000															2.15	2.23	2.27	2.32	2.40	2.51	2.66	2.81	2.97		
AEO 2001																3.39	3.48	2.97	2.74	2.70	2.83	2.95	3.06		
AEO 2002																	4.03	2.06	2.53	2.84	3.01	3.13	3.23		
AEO 2003																		2.79	3.26	3.13	3.15	3.30			
AEO 2004																			4.97	4.00	3.72	3.73	3.86		
AEO 2005																				5.38	5.52	4.95	4.57		
AEO 2006																					7.81	7.16	6.53		
AEO 2007																					6.87	7.00			
AEO 2008																						6.37			
Actual	2.51	1.94	1.67	1.69	1.69	1.71	1.64	1.74	2.04	1.85	1.55	2.17	2.32	1.96	2.19	3.68	4.00	2.95	4.88	5.46	7.33	6.40	6.39		
Average Absolute Difference (All AEOs)	0.6	1.3	1.6	1.7	1.8	1.9	0.9	1.0	1.0	1.3	3.0	1.0	1.1	1.3	1.4	1.7	1.0	0.8	1.6	1.9	3.1	2.3	2.2		

Table 8. Natural Gas Wellhead Prices, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	
AEO 1982	72.0	182.1	299.6	344.6	375.6	401.0																		
AEO 1983	16.7	60.1	107.4	132.5	169.8	207.4																		
AEO 1984	10.4	49.3	92.3	114.6	144.6	180.1																		
AEO 1985	3.6	34.4	59.0	60.2	74.2	95.9	135.0	156.3	150.1	215.4	330.3													
AEO 1986		-10.8	17.1	35.4	50.5	64.4	91.9	114.2	112.9	173.4	280.3	213.0	231.9	339.9	341.8	193.4								
AEO 1987			9.6	15.2	24.6	33.5	51.5	56.6	51.0	89.7	162.9													
AEO 1989*				-4.1	0.6	11.4	29.9	48.1	49.1	88.1	153.5	119.5	125.3	195.8	193.7	89.7								
AEO 1990					5.3	10.2					89.1													
AEO 1991					3.5	15.8	21.3	12.8	30.6	61.7	19.9	17.9	48.5	50.2	1.8	7.8	71.9	18.2	18.1	-0.6	26.5	39.9		
AEO 1992						2.8	6.2	-0.4	16.1	51.6	15.7	18.2	53.7	55.1	3.5	5.9	60.5	7.7	5.8	-13.1	7.6	17.4		
AEO 1993							6.1	-5.1	13.0	48.5	12.4	12.0	45.2	42.7	-5.8	-3.9	45.9	-1.4	-3.4	-22.5	-5.4	1.1		
AEO 1994								-2.8	14.9	46.2	11.0	11.5	39.2	30.4	-19.0	-21.5	13.4	-26.4	-29.5	-42.9	-29.5	-23.1		
AEO 1995									2.3	28.9	-10.0	-11.0	9.8	9.6	-30.2	-27.6	7.1	-27.1	-29.1	-41.8	-28.7	-24.1		
AEO 1996										5.2	-19.8	-19.7	1.6	-3.9	-40.4	-42.8	-19.4	-49.3	-52.6	-62.9	-55.7	-53.6		
AEO 1997											-6.3	-21.4	-2.8	-9.2	-43.9	-46.6	-25.0	-52.5	-55.5	-65.3	-58.5	-56.7		
AEO 1998												-1.0	12.1	3.0	-37.2	-40.5	-17.1	-48.4	-52.5	-63.3	-56.3	-54.2		
AEO 1999													0.9	-1.9	-40.1	-42.1	-17.8	-48.1	-51.8	-62.4	-54.6	-52.8		
AEO 2000														-2.0	-39.3	-43.3	-21.4	-50.9	-54.0	-63.7	-56.0	-53.5		
AEO 2001															-7.8	-12.9	0.8	-43.9	-50.5	-61.4	-53.9	-52.1		
AEO 2002															0.6	-30.1	-48.1	-47.9	-59.0	-51.1	-49.4			
AEO 2003																-5.6	-33.2	-42.8	-57.1	-50.8	-48.3			
AEO 2004																	1.9	-26.8	-49.3	-41.8	-39.6			
AEO 2005																		-1.4	-24.7	-22.7	-28.5			
AEO 2006																			6.5	11.9	2.2			
AEO 2007																				7.3	9.6			
AEO 2008																					-0.3			
Average Absolute Percent Difference (All AEOs)	25.7	67.3	97.5	100.9	105.7	111.9	54.5	58.4	48.0	71.5	190.9	47.5	47.0	68.1	62.0	46.9	24.6	25.8	32.7	34.8	42.4	36.4	33.7	

* There is no report titled Annual Energy Outlook 1988 due to a change in the naming convention of the AEOs.

Sources: Forecasts: Annual Energy Outlook, Mid-Price or Reference Case Projections, Various Editions.

Historical Data: Energy Information Administration, Annual Energy Review 2007, DOE/EIA-0384(2007) (Washington, DC, June 23, 2008), Table 6.7.

Table 9. Total Natural Gas Consumption, Projected vs. Actual

(trillion cubic feet)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	
AEO 1982	15.93	15.72	15.72	16.08	16.59	17.08																		
AEO 1983	17.75	17.63	17.57	17.75	17.76	17.77																		
AEO 1984	18.22	18.07	18.33	18.61	18.73	18.76																		
AEO 1985	17.79	17.80	17.89	18.30	18.58	18.71	18.79	18.88	18.82	18.82	18.81													
AEO 1986	16.52	16.83	17.35	17.27	17.50	17.77	17.77	17.90	18.01	18.04	18.03	18.26	18.34	18.04	17.92									
AEO 1987		16.85	16.93	17.24	17.27	17.34	17.43	17.66	18.02	18.31														
AEO 1989*			17.75	17.95	17.94	18.08	18.10	18.34	18.68	18.94	19.17	19.55	19.86	19.98	20.29									
AEO 1990				18.34	18.66					20.69														
AEO 1991				18.53	19.21	19.34	19.56	19.76	20.01	20.21	20.66	20.93	21.23	21.64	22.03	22.33	22.35	22.32	22.27	22.18	22.11			
AEO 1992					18.79	19.36	19.84	20.08	20.53	20.68	21.12	21.42	21.66	21.89	22.23	22.59	22.82	22.95	23.10	23.05	23.00			
AEO 1993						20.27	20.17	20.54	20.97	21.54	21.83	22.20	22.57	22.83	23.14	23.44	23.75	24.01	24.09	24.17	24.18			
AEO 1994							19.87	20.21	20.64	20.99	21.20	21.42	21.60	21.99	22.37	22.63	22.95	23.22	23.58	23.82	24.09			
AEO 1995								20.82	20.66	20.85	21.21	21.65	21.95	22.12	22.25	22.43	22.62	22.87	23.08	23.36	23.61			
AEO 1996									21.32	21.64	22.11	22.21	22.26	22.34	22.46	22.74	23.14	23.63	24.08	24.25	24.63			
AEO 1997										22.15	22.75	23.24	23.64	23.86	24.13	24.65	25.34	25.82	26.22	26.52	27.00			
AEO 1998											21.84	23.03	23.84	24.08	24.44	24.81	25.33	25.72	26.22	26.65	27.22			
AEO 1999												21.35	22.36	22.54	23.18	23.65	24.17	24.57	25.19	25.77	26.41			
AEO 2000												21.46	22.36	22.19	22.42	22.92	23.27	23.91	24.53	25.25				
AEO 2001												22.00	22.67	23.55	24.37	24.96	25.24	25.70	26.01					
AEO 2002													22.22	23.89	24.73	25.20	25.50	26.00	26.43					
AEO 2003													23.20	24.00	24.48	24.60	24.98	25.21						
AEO 2004													22.09	23.17	23.53	24.04	24.50							
AEO 2005														22.14	22.32	22.64	23.07							
AEO 2006															22.21	22.17								
AEO 2007															21.72	22.68								
AEO 2008																22.90								
Actual	17.28	16.22	17.21	18.03	19.12	19.17	19.56	20.23	20.79	21.25	22.21	22.61	22.74	22.25	22.41	23.33	22.24	23.01	22.28	22.39	22.01	21.65	23.05	
Average Absolute Difference (All AEOs)	0.8	1.1	0.7	0.7	1.3	1.1	1.2	1.5	1.8	2.6	2.0	1.7	1.1	1.2	1.6	0.6	0.7	1.4	1.5	2.0	2.6	1.7		

Table 9. Total Natural Gas Consumption, Projected vs. Actual

(percent difference)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007			
AEO 1982	-7.8	-3.1	-8.7	-10.8	-13.2	-10.9																				
AEO 1983	2.7	8.7	2.1	-1.6	-7.1	-7.3																				
AEO 1984	5.4	11.4	6.5	3.2	-2.0	-2.2																				
AEO 1985	2.9	9.7	3.9	1.5	-2.8	-2.4	-3.9	-6.7	-9.5	-11.4	-15.6															
AEO 1986	1.8	-2.2	-3.8	-9.7	-8.7	-9.2	-12.2	-13.9	-15.2	-18.8	-20.3	-19.7	-17.6	-19.5	-23.2											
AEO 1987	-2.1	-6.1	-9.8	-9.9	-11.4	-13.8	-15.1	-15.2	-17.5		-15.2	-14.0	-10.7	-10.8	-13.0											
AEO 1989*	-1.6	-6.1	-6.4	-7.6	-10.5	-11.8	-12.1	-14.7	-15.2	-17.6	-15.2	-14.0	-10.7	-10.8	-13.0											
AEO 1990	-4.1	-2.7									-6.8					-1.9										
AEO 1991		-3.4	-1.8	-4.4	-5.9	-7.0	-9.9	-10.6	-9.1	-5.9	-5.2	-7.3	-0.9	-2.9	0.3	-0.3	3.2									
AEO 1992		-3.9	-4.3	-4.6	-5.5	-7.6	-8.5	-7.1	-3.7	-3.3	-6.2	0.0	-1.8	2.4	2.5	4.9	6.5	-0.2								
AEO 1993		0.2	-3.0	-3.3	-5.6	-4.7	-4.0	-0.2	0.7	-2.2	4.1	1.9	6.6	7.2	9.4	11.6	4.9									
AEO 1994		-4.4	-4.9	-7.1	-7.2	-6.8	-3.7	-3.6	-5.8	0.6	-1.6	3.0	3.7	7.1	10.0	4.5										
AEO 1995			-2.0	-7.0	-7.8	-6.7	-2.7	-2.0	-5.2	0.1	-2.5	1.5	2.1	4.9	7.9	2.4										
AEO 1996			-4.0	-4.3	-2.8	-0.2	-0.6	-4.3	1.0	-1.2	3.9	5.5	9.4	12.0	6.8											
AEO 1997			-2.0	0.1	4.5	5.5	2.3	8.5	7.1	13.8	15.3	19.1	22.5	17.1												
AEO 1998			-3.9	3.5	6.4	3.2	9.9	7.8	13.7	14.9	19.1	23.1	18.1													
AEO 1999			-4.0	-0.2	-3.4	4.2	2.8	8.5	9.8	14.5	19.0	24.5														
AEO 2000			-4.2	-4.2	-0.2	-2.6	2.9	3.9	8.6	13.3	9.5															
AEO 2001			-5.7	1.9	2.4	9.4	11.5	14.7	18.7	12.8																
AEO 2002			-0.1	3.8	11.0	12.6	15.8	20.1	14.6																	
AEO 2003			0.8	7.7	9.3	11.8	15.4	19.3	14.6																	
AEO 2004			-0.8	3.5	6.9	11.0	14.0	18.0	12.9																	
AEO 2005			-1.1	1.4	4.6	0.1	0.9	2.4	5.7																	
AEO 2006			0.9	2.4	-2.9	0.3	-1.6	-0.7	-0.7																	
AEO 2007			0.9	2.4	-2.9	-1.6	-0.7	-0.7	-0.7																	
AEO 2008			0.3	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7																	
Average Absolute Percent Difference (All AEOs)	4.7	6.9	4.3	4.1	6.9	6.0	6.3	7.4	8.5	8.5	11.8	9.0	7.4	5.2	5.2	6.9	2.6	3.0	6.1	6.9	9.0	11.8	7.3			

* There is no report titled Annual Energy Outlook 1988 due to a change in the naming convention of the AEOs.

Sources: Forecasts: Annual Energy Outlook, Mid-Price or Reference Case Projections, Various Editions.

Historical Data: Energy Information Administration, Annual Energy Review 2007, DOE/EIA-0384(2007) (Washington, DC, June 23, 2008), Table 6.1.

Table 10. Natural Gas Production, Projected vs. Actual

(trillion cubic feet)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007			
AEO 1982	14.74	14.26	14.33	14.89	15.39	15.88																				
AEO 1983	16.48	16.27	16.20	16.31	16.27	16.29																				
AEO 1984	17.48	17.10	17.44	17.58	17.52	17.32																				
AEO 1985	16.95	17.08	17.11	17.29	17.40	17.33	17.32	17.27	17.05	16.80	16.50															
AEO 1986		16.30	16.27	17.15	16.68	16.90	16.97	16.87	16.93	16.86	16.62	16.40	16.33	16.57	16.23	16.12										
AEO 1987			16.21	16.09	16.38	16.32	16.30	16.30	16.44	16.62	16.81															
AEO 1988*				16.71	16.71	16.94	17.01	16.83	17.09	17.35	17.54	17.67	17.98	18.20	18.25	18.49										
AEO 1990					16.91	17.25				18.84																
AEO 1991					17.40	17.48	18.11	18.22	18.15	18.22	18.39	18.82	19.03	19.28	19.62	19.89	20.13	20.07	19.95	19.82	19.64	19.50				
AEO 1992						17.43	17.69	17.95	18.00	18.29	18.27	18.51	18.75	18.97	19.19	19.48	19.78	19.91	19.90	19.99	19.82	19.73				
AEO 1993							18.47	18.05	18.16	18.45	18.90	19.07	19.30	19.60	19.86	20.07	20.35	20.56	20.74	20.65	20.55	20.40				
AEO 1994								17.71	17.68	17.84	18.12	18.25	18.43	18.58	18.93	19.28	19.51	19.80	19.92	20.13	20.18	20.38				
AEO 1995									18.28	17.98	17.92	18.21	18.63	18.92	19.08	19.20	19.36	19.52	19.75	19.94	20.17	20.28				
AEO 1996										18.90	19.15	19.52	19.59	19.59	19.65	19.73	19.97	20.36	20.82	21.25	21.37	21.68				
AEO 1997										19.10	19.70	20.17	20.32	20.54	20.77	21.26	21.90	22.31	22.66	22.93	23.38					
AEO 1998											18.85	19.06	20.35	20.27	20.60	20.94	21.44	21.81	22.25	22.65	23.18					
AEO 1999											18.80	19.13	19.28	19.82	20.23	20.77	21.05	21.57	21.98	22.47						
AEO 2000												18.36	18.89	18.47	18.50	18.88	19.15	19.70	20.27	20.90						
AEO 2001												18.61	18.89	19.67	20.28	20.65	20.81	21.11	21.34							
AEO 2002													19.28	19.54	20.20	20.52	20.73	21.25	21.70							
AEO 2003													19.37	19.99	20.15	20.14	20.43	20.51								
AEO 2004														19.57	19.51	19.58	19.66	19.95								
AEO 2005															18.91	19.27	19.24	19.49								
AEO 2006																18.14	18.16	18.00								
AEO 2007																	18.57	19.12								
AEO 2008																								19.00		
Actual	16.45	16.06	16.62	17.10	17.31	17.81	17.70	17.84	18.10	18.82	18.60	18.85	18.90	19.02	18.83	19.18	19.62	18.93	19.10	18.59	18.05	18.48	19.28			
Average Absolute Difference (All AEOs)	0.8	0.9	0.8	0.7	0.7	1.0	0.6	0.7	0.7	1.3	1.2	0.8	0.7	0.6	0.8	0.8	0.5	1.0	1.2	1.8	2.4	2.0	1.5			

Table 10. Natural Gas Production, Projected vs. Actual

(percent difference)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007			
AEO 1982	-10.4	-11.2	-13.8	-12.9	-11.1	-10.8																				
AEO 1983	0.2	1.3	-2.5	-4.6	-6.0	-8.5																				
AEO 1984	6.2	6.5	4.9	2.8	1.2	-2.7																				
AEO 1985	3.0	6.4	2.9	1.1	0.5	-2.7	-2.1	-3.2	-5.8	-10.7	-11.3															
AEO 1986		1.5	-2.1	0.3	-3.6	-5.1	-4.1	-5.4	-6.4	-10.4	-10.6	-13.0	-13.6	-12.9	-13.8	-16.0										
AEO 1987			-2.5	-5.9	-5.4	-8.4	-7.9	-8.6	-9.1	-11.7	-9.6															
AEO 1988*				-2.3	-3.5	-4.9	-3.9	-5.7	-5.6	-7.8	-5.7	-6.3	-4.9	-4.3	-3.1	-3.6										
AEO 1989					-2.3	-3.1					1.3					7.3					12.1					
AEO 1990							-2.3	-1.2	1.5	0.7	-3.6	-2.0	-2.5	-0.4	0.0	2.4	2.3	1.4	6.4	5.1	7.3	9.8	6.3	1.2		
AEO 1991								-1.5	-0.8	-0.8	-4.4	-1.7	-3.1	-2.1	-1.4	0.7	0.0	-0.7	4.5	4.2	7.0	10.7	7.3	2.3		
AEO 1992									3.5	-0.3	-3.5	-0.8	0.2	0.9	1.5	4.1	3.5	2.3	7.5	7.7	11.6	14.4	11.2	5.8		
AEO 1993										-2.1	-6.1	-4.1	-3.9	-3.5	-3.1	-1.3	-1.3	-1.7	3.1	3.7	7.1	11.5	9.2	5.7		
AEO 1994											-2.9	-3.3	-5.0	-3.7	-2.1	0.5	-0.5	-2.1	2.3	2.2	6.2	10.5	9.2	5.2		
AEO 1995												1.6	1.6	3.3	3.0	4.0	2.4	0.6	5.5	6.6	12.0	17.7	15.7	12.5		
AEO 1996													1.3	4.2	6.0	7.9	7.1	5.9	12.3	14.7	20.0	25.5	24.1	21.3		
AEO 1997														-0.3	0.2	8.1	5.7	5.0	10.7	12.3	17.3	23.3	22.6	20.2		
AEO 1998															-1.2	1.6	0.5	1.0	6.9	8.7	13.2	19.5	19.0	16.5		
AEO 1999																-2.5	-1.5	-5.9	-2.2	-1.1	3.0	9.1	9.7	8.4		
AEO 2000																	-3.0	-3.7	3.9	6.2	11.1	15.3	14.2	10.7		
AEO 2001																		-1.7	3.2	5.7	10.4	14.8	15.0	12.6		
AEO 2002																		2.3	4.7	8.4	11.6	10.6	6.4	3.5		
AEO 2003																		2.4	4.9	8.5	6.4	4.1	1.1			
AEO 2004																		1.7	6.8	4.1	0.5	-1.7	-6.6			
AEO 2005																			0.5	-0.8	-0.8	-1.4				
AEO 2006																										
AEO 2007																										
AEO 2008																										
Average Absolute Percent Difference (All AEOs)	5.0	5.4	4.8	4.3	4.2	5.4	3.5	4.1	3.8	6.8	6.5	4.1	3.7	3.2	4.2	4.3	2.7	5.4	6.1	9.4	13.0	11.0	7.9			

* There is no report titled Annual Energy Outlook 1988 due to a change in the naming convention of the AEOs.

Sources: Forecasts: Annual Energy Outlook, Mid-Price or Reference Case Projections, Various Editions.

Historical Data: Energy Information Administration, Annual Energy Review 2007, DOE/EIA-0384(2007) (Washington, DC, June 23, 2008), Table 6.1.

Table 11. Natural Gas Net Imports, Projected vs. Actual

(trillion cubic feet)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007				
AEO 1982	1.19	1.19	1.19	1.19	1.19	1.19																					
AEO 1983	1.08	1.16	1.23	1.23	1.23	1.23																					
AEO 1984	0.99	1.05	1.16	1.27	1.43	1.57																					
AEO 1985	0.94	1.00	1.19	1.45	1.58	1.86	1.94	2.06	2.17	2.32	2.44																
AEO 1986	0.74	0.88	0.62	1.03	1.05	1.27	1.39	1.47	1.66	1.79	1.96	2.17	2.38	2.42	2.43												
AEO 1987		0.84	0.89	1.07	1.16	1.26	1.36	1.46	1.65	1.75	1.98	2.06	2.15	2.23	2.31												
AEO 1989*			1.15	1.32	1.44	1.52	1.61	1.70	1.79	1.87	1.98	2.06	2.15	2.23	2.31												
AEO 1990				1.26	1.43				2.07																		
AEO 1991					1.36	1.53	1.70	1.82	2.11	2.30	2.33	2.36	2.42	2.49	2.56	2.70	2.75	2.83	2.90	2.95	3.02	3.09					
AEO 1992						1.48	1.62	1.88	2.08	2.25	2.41	2.56	2.68	2.70	2.72	2.76	2.84	2.92	3.05	3.10	3.20	3.25					
AEO 1993							1.79	2.08	2.35	2.49	2.61	2.74	2.89	2.95	3.00	3.05	3.10	3.17	3.29	3.42	3.58	3.75					
AEO 1994								2.02	2.40	2.66	2.74	2.81	2.85	2.93	2.95	2.97	3.00	3.16	3.31	3.50	3.57						
AEO 1995									2.46	2.54	2.80	2.87	2.87	2.89	2.90	2.92	2.95	2.97	3.00	3.03	3.19						
AEO 1996										2.56	2.75	2.85	2.88	2.93	2.98	3.02	3.06	3.07	3.09	3.12	3.17	3.23					
AEO 1997											2.82	2.96	3.16	3.43	3.46	3.50	3.53	3.58	3.64	3.69	3.74	3.78					
AEO 1998												2.95	3.19	3.53	3.84	3.87	3.89	3.94	3.98	4.02	4.06	4.11					
AEO 1999													3.16	3.29	3.41	3.44	3.47	3.59	3.68	3.85	4.00						
AEO 2000														3.42	3.65	3.85	4.00	4.10	4.14	4.19	4.24	4.32					
AEO 2001															3.51	3.76	3.88	4.07	4.33	4.48	4.65	4.74					
AEO 2002																3.68	3.74	4.04	4.31	4.50	4.58	4.68					
AEO 2003																	3.17	3.32	3.67	3.86	3.98	4.17					
AEO 2004																		3.51	3.60	3.87	4.28	4.43					
AEO 2005																			3.28	3.37	3.64	3.75					
AEO 2006																				3.39	3.65	4.00					
AEO 2007																					3.29	3.43					
AEO 2008																						3.80					
Actual	0.89	0.69	0.94	1.22	1.27	1.45	1.64	1.92	2.21	2.46	2.69	2.78	2.84	2.99	3.42	3.54	3.60	3.50	3.26	3.40	3.61	3.46	3.79				
Average Absolute Difference (All AEOs)	0.2	0.3	0.2	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.3	0.3	0.3	0.5	0.6	0.4	0.4	0.4	0.4	0.4	0.5	0.4				

Table 11. Natural Gas Net Imports, Projected vs. Actual

(percent difference)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007				
AEO 1982	33.0	72.7	26.8	-2.5	-6.6	-17.7																					
AEO 1983	20.7	68.3	31.1	0.8	-3.5	-15.0																					
AEO 1984	10.7	52.4	23.6	4.1	12.2	8.5																					
AEO 1985	5.1	45.1	26.8	18.8	24.0	28.6	18.0	7.2	-1.8	-5.8	-9.2																
AEO 1986		7.4	-6.2	-49.2	-19.2	-27.4	-22.8	-27.7	-33.5	-32.6	-33.4	-29.6	-23.5	-20.5	-29.3	-31.3											
AEO 1987			-10.5	-27.1	-16.1	-19.8	-23.4	-29.2	-33.9	-33.0	-34.9																
AEO 1989*				-5.8	3.6	-0.5	-7.5	-16.2	-23.1	-27.3	-30.4	-28.9	-27.4	-28.2	-34.8	-34.7											
AEO 1990					-1.1	-1.2					-23.0																
AEO 1991						-6.0	-6.9	-11.5	-17.6	-14.3	-14.4	-16.3	-16.8	-19.1	-27.2	-27.6	-25.1	-21.4	-13.3	-14.8	-18.3	-12.8	-18.5				
AEO 1992							-10.0	-15.7	-14.9	-15.5	-16.3	-13.4	-9.8	-10.5	-21.1	-23.1	-23.4	-18.8	-10.5	-10.4	-14.2	-7.6	-14.3				
AEO 1993								-6.8	-5.9	-4.6	-7.3	-6.3	-3.4	-3.4	-13.8	-15.2	-15.4	-11.4	-2.9	-3.4	-5.3	3.4	-1.1				
AEO 1994									-8.6	-2.5	-1.0	-1.6	-1.0	-4.8	-15.5	-17.2	-18.1	-15.1	-8.1	-7.2	-8.4	1.1	-15.9				
AEO 1995									-0.1	-5.5	0.6	1.2	-4.1	-15.5	-18.0	-19.5	-16.6	-9.6	-12.8	-17.0	-12.5	-15.9					
AEO 1996										-4.7	-1.2	0.5	-3.8	-14.4	-15.8	-16.2	-12.6	-5.9	-9.2	-13.6	-8.4	-14.8					
AEO 1997											1.3	4.3	5.6	0.2	-2.2	-2.9	0.9	9.7	6.9	2.1	8.0	-0.3					
AEO 1998												4.0	6.6	3.2	8.6	7.4	11.3	20.6	16.8	11.3	17.3	8.3					
AEO 1999													-2.4	-7.5	-6.9	-5.3	-1.7	6.4	5.4	1.9	11.1	5.5					
AEO 2000														3.0	6.7	14.4	25.5	21.6	16.0	22.5	13.8						
AEO 2001															-0.6	4.4	10.8	24.6	27.3	23.9	34.3	25.0					
AEO 2002																2.2	7.0	23.7	26.7	24.6	32.3	23.3					
AEO 2003																	-9.3	1.6	7.9	6.8	15.1	10.0					
AEO 2004																		7.5	5.8	7.1	23.5	16.8					
AEO 2005																			-3.7	-6.7	5.2	-1.2					
AEO 2006																			-6.0	5.3	5.4						
AEO 2007																			-5.0	-9.6							
AEO 2008																				0.3							
Average Absolute Percent Difference (All AEOs)	17.4	49.2	20.8	15.5	10.8	13.9	14.8	16.3	17.4	15.1	19.7	11.0	9.2	9.9	15.2	17.2	12.2	11.6	12.1	12.0	11.9	13.3	10.6				

* There is no report titled Annual Energy Outlook 1988 due to a change in the naming convention of the AEOs.

Sources: Forecasts: Annual Energy Outlook, Mid-Price or Reference Case Projections, Various Editions.

Historical Data: Energy Information Administration, Annual Energy Review 2007, DOE/EIA-0384(2007) (Washington, DC, June 23, 2008), Table 6.1.

Table 12. Coal Prices to Electric Generating Plants, Projected vs. Actual

	(current dollars per million Btu)																							
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	
AEO 1982	2.03	2.17	2.33	2.52	2.73	2.99																		
AEO 1983	1.99	2.10	2.24	2.39	2.57	2.76																		
AEO 1984	1.90	2.01	2.13	2.28	2.44	2.61																		
AEO 1985	1.68	1.76	1.86	1.95	2.05	2.19	2.32	2.49	2.66	2.83	3.03													
AEO 1986		1.61	1.68	1.75	1.83	1.93	2.05	2.19	2.35	2.54	2.73	2.92	3.10	3.31	3.49	3.68								
AEO 1987			1.52	1.55	1.65	1.75	1.84	1.96	2.11	2.27	2.44													
AEO 1989*				1.50	1.51	1.68	1.77	1.88	2.00	2.13	2.26	2.40	2.55	2.70	2.86	3.00								
AEO 1990					1.46	1.53					2.07												3.70	
AEO 1991						1.51	1.58	1.66	1.77	1.88	1.96	2.06	2.16	2.28	2.41	2.57	2.70	2.85	3.04	3.26	3.46	3.65	3.87	
AEO 1992							1.54	1.61	1.66	1.75	1.85	1.97	2.03	2.14	2.26	2.44	2.55	2.69	2.83	3.00	3.20	3.40	3.58	
AEO 1993								1.92	1.54	1.61	1.70	1.77	1.87	1.96	2.07	2.22	2.35	2.46	2.60	2.74	2.89	3.09	3.26	
AEO 1994									1.50	1.55	1.64	1.73	1.78	1.82	1.92	2.01	2.13	2.22	2.30	2.41	2.46	2.64	2.78	
AEO 1995										1.42	1.46	1.49	1.55	1.59	1.62	1.67	1.76	1.80	1.89	1.97	2.05	2.13	2.21	
AEO 1996											1.35	1.35	1.37	1.39	1.42	1.46	1.50	1.56	1.62	1.67	1.75	1.80	1.87	
AEO 1997												1.36	1.38	1.40	1.44	1.46	1.51	1.54	1.55	1.58	1.62	1.70	1.74	
AEO 1998													1.28	1.28	1.30	1.32	1.34	1.36	1.37	1.39	1.42	1.45	1.47	
AEO 1999														1.24	1.25	1.25	1.27	1.29	1.31	1.32	1.33	1.35	1.36	
AEO 2000															1.28	1.27	1.24	1.24	1.24	1.25	1.26	1.28	1.30	
AEO 2001																1.22	1.22	1.21	1.23	1.27	1.27	1.28	1.29	
AEO 2002																								
AEO 2003																								
AEO 2004																								
AEO 2005																								
AEO 2006																								
AEO 2007																								
AEO 2008																							1.78	
Actual	1.65	1.58	1.51	1.47	1.45	1.46	1.45	1.41	1.39	1.36	1.32	1.29	1.27	1.25	1.22	1.20	1.23	1.25	1.28	1.36	1.54	1.69	1.78	
Average Absolute Difference (All AEOs)	0.3	0.4	0.5	0.5	0.6	0.7	0.4	0.5	0.6	0.6	1.0	0.6	0.6	0.7	0.7	0.9	0.5	0.5	0.5	0.5	0.6	0.6	0.6	

Table 12. Coal Prices to Electric Generating Plants, Projected vs. Actual

	(percent difference)																								
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007		
AEO 1982	22.9	37.4	54.4	72.0	88.7	105.7																			
AEO 1983	20.7	33.3	48.8	62.9	77.6	89.6																			
AEO 1984	15.3	27.6	41.6	55.5	68.8	79.5																			
AEO 1985	1.9	11.4	23.3	32.9	42.2	50.4	60.6	76.2	92.2	108.9	129.8														
AEO 1986		2.0	11.4	19.6	26.8	32.8	41.3	55.0	69.4	87.2	107.1	126.5	143.8	164.5	186.7	207.0									
AEO 1987			0.9	6.1	14.5	20.0	27.4	38.7	52.3	67.3	85.5														
AEO 1989*				2.3	4.8	15.3	22.6	33.1	44.6	57.5	71.5	85.9	100.4	115.3	135.0	149.9									
AEO 1990					1.0	5.2					57.2														
AEO 1991						3.8	9.1	17.8	28.1	38.7	48.8	59.9	69.9	81.8	98.1	114.1	118.8	127.8	137.5	139.5	124.4	115.8	117.3		
AEO 1992							6.5	14.3	19.9	29.5	40.4	52.6	59.3	71.2	86.2	103.0	106.9	114.9	121.3	120.8	108.0	101.0	101.3		
AEO 1993								35.9	11.3	18.8	29.3	37.6	47.2	56.2	70.2	85.1	90.4	97.0	103.0	101.6	87.8	82.7	83.1		
AEO 1994									8.5	14.4	24.6	34.0	40.1	45.5	58.2	67.3	73.3	77.4	80.0	77.0	59.8	56.0	55.9		
AEO 1995										4.9	11.0	15.5	21.4	26.7	33.2	39.1	42.7	44.3	47.7	44.8	33.0	26.3	23.9		
AEO 1996											2.1	4.8	7.5	11.2	16.9	21.6	21.5	24.9	26.6	23.1	13.6	6.6	5.1		
AEO 1997												5.4	8.4	12.1	18.6	21.9	22.7	22.9	21.0	16.2	5.2	5.2	-2.4		
AEO 1998												0.2	2.6	7.2	9.6	8.5	7.4	2.6	-7.6	-14.5					
AEO 1999													2.6	4.6	3.4	3.2	2.1	-3.1	-13.3	-20.3					
AEO 2000														5.0	6.2	0.7	-0.9	-3.5	-8.4	-18.2	-24.4				
AEO 2001															2.0	0.4	0.4	-1.2	-6.2	-16.3	-23.3				
AEO 2002																-0.8	-3.5	-3.7	-6.9	-17.3	-24.4				
AEO 2003																-1.3	-0.6	-4.5	-13.2	-20.2	-23.6				
AEO 2004																	-1.7	-6.6	-16.0	-22.2	-24.9				
AEO 2005																	-3.6	-12.8	-19.0	-22.4					
AEO 2006																		-0.4	-5.4	-9.5					
AEO 2007																		1.9	0.1						
AEO 2008																		-0.1							
Average Absolute Percent Difference (All AEOs)	15.2	22.3	30.1	35.9	40.5	44.7	27.9	38.7	40.8	47.5	78.4	46.9	49.8	53.4	59.8	77.1	40.8	40.5	39.8	37.7	40.4	33.2	32.9		

* There is no report titled Annual Energy Outlook 1988 due to a change in the naming convention of the AEOs.

Sources: Forecasts: Annual Energy Outlook, Mid-Price or Reference Case Projections, Various Editions.

Historical Data: Energy Information Administration, June 23, 2008 Monthly Energy Review, DOE/EIA-0035(2008/06) (Washington, DC, June 2008), Table 9.10.

Table 13. Total Coal Consumption, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007				
AEO 1982	805	825	843	868	896	936																					
AEO 1983	807	831	848	870	899	928																					
AEO 1984	843	848	866	889	919	958																					
AEO 1985	818	833	842	853	867	891	918	943	970	989	1008																
AEO 1986		813	831	860	870	888	919	945	972	995	1021	1038	1051	1069	1083	1105											
AEO 1987			837	837	854	879	896	912	932	954	975																
AEO 1989*				872	882	894	903	927	947	965	987	990	1006	1026	1045	1062											
AEO 1990					884	893																					
AEO 1991						893	902	918	932	943	948	962	973	984	991	1003	1003	1011	1030	1056	1078	1106	1136				
AEO 1992							905	934	919	925	934	944	953	961	971	993	1003	1011	1020	1037	1055	1087	1116				
AEO 1993								929	931	940	947	958	965	970	972	987	997	1004	1010	1018	1032	1056	1077				
AEO 1994									920	928	933	938	943	948	953	958	962	967	978	990	987	992	1006				
AEO 1995									935	940	941	947	948	951	954	958	963	971	984	992	996	1002					
AEO 1996										937	942	942	954	962	983	990	1004	1017	1027	1033	1046	1067	1070				
AEO 1997											948	970	987	1003	1017	1020	1025	1034	1041	1054	1075	1086					
AEO 1998												1009	1051	1044	1058	1087	1084	1090	1097	1112	1130	1142					
AEO 1999													1040	1075	1092	1109	1113	1118	1120	1120	1133	1139					
AEO 2000														1053	1086	1103	1124	1142	1164	1175	1184	1189					
AEO 2001															1078	1112	1135	1153	1165	1183	1191	1220					
AEO 2002																1088	1092	1126	1147	1176	1199	1227					
AEO 2003																	1040	1059	1082	1106	1138	1172					
AEO 2004																		1100	1098	1126	1156	1183					
AEO 2005																			1102	1137	1159	1189					
AEO 2006																				1144	1150	1172					
AEO 2007																					1135	1147					
AEO 2008																						1127					
Actual	818	804	837	884	895	904	899	908	944	951	962	1006	1030	1037	1039	1084	1060	1066	1095	1107	1126	1112	1129				
Average Absolute Difference (All AEOs)	12.3	25.8	9.5	21.0	18.4	21.9	9.0	22.1	17.9	20.4	41.9	51.0	56.7	50.9	46.1	55.5	56.0	54.6	57.1	53.9	55.5	50.5	51.0				

Table 13. Total Coal Consumption, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007			
AEO 1982	-1.6	2.6	0.7	-1.8	0.1	3.5																				
AEO 1983	-1.4	3.3	1.3	-1.5	0.4	2.6																				
AEO 1984	3.1	5.4	3.5	0.6	2.7	5.9																				
AEO 1985	0.0	3.6	0.6	-3.5	-3.1	-1.5	2.1	3.9	2.7	4.0	4.8															
AEO 1986		1.1	-0.7	-2.7	-2.8	-1.8	2.2	4.1	3.0	4.6	6.1	3.1	2.1	3.1	4.3	1.9										
AEO 1987		0.0	-5.3	-4.6	-2.8	-0.4	0.5	-1.3	0.3	1.3																
AEO 1989*		-1.3	-1.5	-1.2	0.4	2.1	0.3	1.4	2.6		-1.6	-2.3	-1.1	0.6	-2.0											
AEO 1990			-1.2	-1.3							2.3															
AEO 1991				-1.3	0.3	1.1	-1.3	-0.9	-1.5	-4.4	-5.5	-5.1	-4.6	-7.5	-5.4	-5.2	-5.9	-4.6	-4.3	-0.6	0.6					
AEO 1992					0.6	2.9	-2.7	-2.8	-2.9	-6.2	-7.4	-7.3	-6.5	-8.4	-5.4	-5.2	-6.8	-6.3	-6.3	-2.3	-1.1					
AEO 1993						2.4	-1.4	-1.2	-1.6	-4.8	-6.3	-6.5	-6.4	-9.0	-6.0	-5.8	-7.8	-8.1	-8.3	-5.1	-4.6					
AEO 1994							-2.6	-2.4	-3.0	-6.8	-8.4	-8.6	-8.2	-11.6	-9.3	-9.3	-10.7	-10.6	-12.3	-10.8	-10.9					
AEO 1995								-1.7	-2.3	-6.5	-8.0	-8.6	-8.4	-12.0	-9.6	-9.7	-11.3	-11.1	-11.9	-10.5	-11.2					
AEO 1996									-2.6	-6.4	-7.3	-7.2	-5.4	-8.7	-5.3	-4.6	-6.2	-6.7	-7.1	-4.1	-5.2					
AEO 1997										-5.8	-5.8	-4.8	-3.4	-6.2	-3.8	-3.9	-5.6	-6.0	-6.4	-3.4	-3.8					
AEO 1998										-2.0	1.3	0.5	-2.4	2.5	1.7	-0.5	-0.9	-1.3	1.6	1.2						
AEO 1999										0.3	3.5	0.8	4.6	4.4	2.2	1.1	-0.5	1.9	0.9							
AEO 2000											1.4	0.2	4.1	5.4	4.3	5.2	4.4	6.5	5.4							
AEO 2001												-0.6	4.9	6.4	5.3	5.2	5.0	7.1	8.1							
AEO 2002												2.6	2.4	2.8	3.6	4.4	7.8	8.7								
AEO 2003													-2.5	-3.2	-2.2	-1.8	2.3	3.8								
AEO 2004													0.4	-0.9	0.0	3.9	4.8									
AEO 2005													-0.5	0.9	4.2	5.3										
AEO 2006													1.6	3.4	3.8											
AEO 2007														2.0	1.7											
AEO 2008															-0.1											
Average Absolute Percent Difference (All AEOs)	1.5	3.2	1.1	2.4	2.1	2.4	1.0	2.4	1.9	2.1	4.4	5.1	5.5	4.9	4.4	5.1	5.3	5.2	4.9	4.9	4.5	4.5	4.5			

* There is no report titled Annual Energy Outlook 1988 due to a change in the naming convention of the AEOs.

Sources: Forecasts: Annual Energy Outlook, Mid-Price or Reference Case Projections, Various Editions.

Historical Data: Energy Information Administration, Annual Energy Review 2007, DOE/EIA-0384(2007) (Washington, DC, June 23, 2008), Table 7.1.

Table 14. Coal Production, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007					
AEO 1982	914	939	963	995	1031	1080																						
AEO 1983	900	926	947	974	1010	1045																						
AEO 1984	899	921	948	974	1010	1057																						
AEO 1985	886	909	930	940	958	985	1015	1041	1072	1094	1116																	
AEO 1986	890	920	954	962	983	1017	1044	1073	1097	1126	1142	1156	1176	1191	1217													
AEO 1987	917	914	932	962	978	996	1020	1043	1068	1094	1125	1136	1148	1161	1178	1204	1229	1272	1312	1349								
AEO 1988*		941	946	977	990	1018	1039	1058	1082	1084	1107	1130	1152	1171														
AEO 1990			973	987					1085						1178									1379				
AEO 1991				1035	1002	1016	1031	1043	1054	1065	1079	1096	1111	1133	1142	1160	1193	1234	1272	1309	1349							
AEO 1992					1004	1040	1019	1034	1052	1064	1074	1087	1102	1133	1144	1156	1173	1201	1229	1272	1312							
AEO 1993						1039	1043	1054	1065	1076	1086	1094	1102	1125	1136	1148	1161	1178	1204	1237	1269							
AEO 1994							999	1021	1041	1051	1056	1066	1073	1081	1087	1098	1107	1122	1121	1128	1143							
AEO 1995								1006	1010	1011	1016	1017	1021	1027	1033	1040	1051	1066	1076	1083	1090							
AEO 1996									1037	1044	1041	1045	1061	1070	1086	1100	1112	1121	1135	1156	1161							
AEO 1997										1028	1052	1072	1088	1105	1110	1115	1123	1133	1146	1171	1182							
AEO 1998											1088	1122	1128	1145	1176	1176	1183	1191	1207	1229	1239							
AEO 1999											1125	1154	1168	1187	1193	1198	1199	1200	1213	1220								
AEO 2000											1120	1136	1153	1174	1190	1212	1221	1231	1236									
AEO 2001												1111	1136	1181	1198	1209	1226	1234	1262									
AEO 2002													1085	1099	1102	1124	1156	1188										
AEO 2003													1100		1121	1141	1168	1192										
AEO 2004														1125		1179	1179	1207										
AEO 2005															1145	1166	1204											
AEO 2006																1149	1143											
AEO 2007																	1155											
AEO 2008																												
Actual	884	890	919	950	982	1032	1000	1004	954	1042	1042	1073	1098	1126	1109	1083	1138	1103	1082	1123	1145	1177	1160					
Average Absolute Difference (All AEOs)	16.1	26.8	19.3	21.7	30.5	39.5	11.7	26.1	83.4	22.5	52.4	28.5	35.9	42.3	34.0	56.6	31.8	46.5	69.1	47.8	59.3	46.2	64.1					

Table 14. Coal Production, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007				
AEO 1982	3.4	5.5	4.8	4.7	5.0	4.6																					
AEO 1983	1.9	4.0	3.1	2.5	2.8	1.2																					
AEO 1984	1.7	3.4	3.2	2.5	2.8	2.4																					
AEO 1985	0.3	2.1	1.2	-1.1	-2.5	-4.6	1.5	3.7	12.4	5.0	7.1																
AEO 1986		0.0	0.1	0.4	-2.1	-4.8	1.7	4.0	12.5	5.3	8.1	6.5	5.3	4.4	7.4	12.4											
AEO 1987			-0.2	-3.8	-5.1	-6.8	-2.2	-0.8	7.0	0.1	2.5																
AEO 1988*			-1.0	-3.7	-5.4	-1.0	1.4	9.0	1.6	3.9	1.1	0.8	0.3	3.9	8.2												
AEO 1990				-0.9	-4.4					4.2																	
AEO 1991					0.3	0.2	1.2	8.1	0.1	1.2	-0.7	-1.7	-2.7	0.2	4.6	0.4	5.1	10.3	9.8	11.1	11.2	16.3					
AEO 1992						0.4	3.6	6.9	-0.7	1.0	-0.8	-2.2	-3.5	-0.6	4.6	0.5	4.8	8.4	6.9	7.4	8.1	13.1					
AEO 1993							3.5	9.4	1.2	2.3	0.3	-1.1	-2.9	-0.6	3.9	-0.2	4.0	7.3	4.9	5.2	5.1	9.4					
AEO 1994								4.8	-2.0	-0.1	-2.0	-3.8	-5.3	-3.3	-0.2	-4.5	-0.5	2.3	-0.1	-2.1	-4.2	-1.4					
AEO 1995									-3.4	-3.0	-5.7	-7.5	-9.7	-7.9	-5.1	-9.2	-5.7	-2.8	-5.1	-6.0	-8.0	-6.0					
AEO 1996										-0.4	-2.7	-5.2	-7.2	-4.3	-1.2	-4.6	-0.3	2.8	-0.2	-0.9	-1.8	0.1					
AEO 1997											-4.2	-4.2	-4.8	-1.9	2.1	-2.4	1.1	3.8	0.9	0.1	-0.5	1.9					
AEO 1998											-0.9	-0.4	1.7	5.7	3.3	6.6	9.3	6.0	5.4	4.4	6.8						
AEO 1999												-0.1	4.0	7.9	4.3	8.1	10.8	6.7	4.8	3.1	5.2						
AEO 2000													1.0	5.0	1.4	6.4	10.0	7.9	6.7	4.5	6.6						
AEO 2001														2.6	-0.2	7.0	10.8	7.6	7.1	4.8	8.8						
AEO 2002															2.6	3.4	7.4	5.3	5.8	4.9	8.8						
AEO 2003																-1.7	1.6	-1.9	-1.8	-1.8	2.4						
AEO 2004																	1.7	-0.2	-0.3	-0.8	2.8						
AEO 2005																		0.2	2.9	0.1	4.1						
AEO 2006																		0.0	-1.0	3.8							
AEO 2007																			-2.4	-1.4	-0.4						
AEO 2008																											
Average Absolute Difference (All AEOs)	1.8	3.0	2.1	2.3	3.1	3.8	1.2	2.6	8.8	2.2	5.0	2.7	3.3	3.8	3.1	5.2	2.8	6.4	4.3	5.2	3.9	5.5					

* There is no report titled Annual Energy Outlook 1988 due to a change in the naming convention of the AEOs.

Sources: Forecasts: Annual Energy Outlook, Mid-Price or Reference Case Projections, Various Editions.

Historical Data: Energy Information Administration, Annual Energy Review 2007, DOE/EIA-0384(2007) (Washington, DC, June 23, 2008), Table 7.1.

Table 15. Average Electricity Prices, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007		
AEO 1982	6.38	6.96	7.63	8.23	8.83	9.49																			
AEO 1983	6.85	7.28	7.74	8.22	8.68	9.18																			
AEO 1984	6.67	7.05	7.48	7.89	8.25	8.65																			
AEO 1985	6.62	6.94	7.32	7.63	7.89	8.15	8.46	8.85	9.20	9.61	10.04														
AEO 1986	6.67	6.88	7.05	7.18	7.35	7.52	7.65	7.87	8.31	8.83	9.41	10.01	10.61	11.33	12.02										
AEO 1987		6.63	6.65	6.92	7.12	7.38	7.62	7.94	8.36	8.86															
AEO 1989*			6.50	6.75	7.14	7.48	7.82	8.11	8.50	8.91	9.39	9.91	10.49	11.05	11.61										
AEO 1990				6.49	6.72					8.40															
AEO 1991					6.94	7.31	7.59	7.82	8.18	8.38	8.54	8.73	8.99	9.38	9.83	10.29	10.83	11.36	11.94	12.58	13.21	13.88			
AEO 1992						6.97	7.16	7.32	7.56	7.78	8.04	8.29	8.57	8.93	9.38	9.82	10.26	10.73	11.25	11.83	12.37	12.96			
AEO 1993							7.18	7.36	7.54	7.77	7.99	8.27	8.54	8.89	9.33	9.72	10.14	10.61	11.11	11.55	12.05	12.56			
AEO 1994								6.95	7.12	7.41	7.59	7.79	8.01	8.36	8.62	9.02	9.32	9.76	10.08	10.42	10.94	11.32			
AEO 1995									6.95	7.16	7.23	7.40	7.59	7.81	8.04	8.42	8.70	9.12	9.43	9.75	10.24	10.57			
AEO 1996										7.23	7.30	7.42	7.60	7.84	8.07	8.33	8.60	8.90	9.19	9.54	9.84	10.18			
AEO 1997											7.11	7.22	7.41	7.61	7.76	7.95	8.11	8.30	8.46	8.65	8.92	9.16			
AEO 1998												6.94	6.89	7.03	7.08	7.16	7.27	7.42	7.53	7.66	7.79	7.97			
AEO 1999													6.77	6.87	6.91	6.97	7.02	7.21	7.36	7.46	7.59	7.70			
AEO 2000													6.68	6.76	6.75	6.73	6.79	6.87	6.91	7.06	7.19				
AEO 2001													6.95	7.05	6.94	7.00	7.09	7.03	7.09	7.07					
AEO 2002														7.21	6.99	6.99	7.15	7.26	7.36	7.52					
AEO 2003														6.99	6.90	7.01	7.10	7.10	7.18						
AEO 2004															7.24	7.16	7.18	7.21	7.25						
AEO 2005																7.57	7.70	7.54	7.35						
AEO 2006																	8.55	8.59	8.32						
AEO 2007																	8.57	8.74							
AEO 2008																		9.13							
Actual	6.44	6.44	6.37	6.35	6.45	6.57	6.75	6.82	6.93	6.91	6.89	6.86	6.85	6.74	6.64	6.81	7.29	7.20	7.44	7.61	8.14	8.90	9.14		
Average Absolute Difference (All AEOs)	0.2	0.5	0.9	1.1	1.2	1.3	0.8	0.9	0.9	1.1	2.0	1.2	1.3	1.6	1.8	2.2	1.2	1.3	1.4	1.4	1.8	1.7	1.8		

Table 15. Average Electricity Prices, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007		
AEO 1982	-0.9	8.0	19.7	29.6	37.0	44.4																			
AEO 1983	6.4	13.0	21.5	29.4	34.6	39.7																			
AEO 1984	3.5	9.5	17.4	24.3	27.8	31.6																			
AEO 1985	2.8	7.7	14.8	20.1	22.3	24.1	25.3	29.7	32.8	39.0	45.8														
AEO 1986	3.5	8.0	11.1	11.3	11.9	11.4	12.2	13.6	20.2	28.2	37.2	46.2	57.5	70.6	76.5										
AEO 1987	4.1	4.8	7.3	8.4	9.3	11.7	14.5	21.0		28.6															
AEO 1989*	2.3	4.6	8.7	10.9	14.7	17.0	23.0	29.3	36.9	44.7	55.6	66.5	70.5												
AEO 1990		0.6	2.2					22.0																	
AEO 1991	5.6	8.2	11.3	12.9	18.4	21.6	24.5	27.4	33.3	41.2	44.4	41.1	50.4	52.7	56.9	54.5	48.4	51.8							
AEO 1992		3.3	4.9	5.7	9.4	13.0	17.2	21.0	27.2	34.5	37.7	34.6	42.5	44.2	47.9	45.4	39.0	41.8							
AEO 1993			5.3	6.2	9.2	12.8	16.5	20.7	26.7	33.9	37.1	33.3	40.9	42.6	46.0	41.9	35.4	37.4							
AEO 1994				0.3	3.1	7.5	10.7	13.7	18.8	25.9	26.6	23.8	29.4	31.1	32.4	28.1	22.9	23.8							
AEO 1995					0.6	3.9	5.4	8.0	12.6	17.6	18.1	15.5	20.8	22.6	24.0	19.8	15.0	15.7							
AEO 1996						5.0	6.4	8.4	12.8	18.1	18.4	14.2	19.5	19.6	20.8	17.2	10.6	11.4							
AEO 1997							3.6	5.4	9.9	14.7	13.9	9.1	12.6	11.5	11.2	6.3	0.2	0.2							
AEO 1998							1.3	2.3	5.9	4.0	-1.8	0.9	-0.2	-1.1	-5.9	-12.5	-12.8								
AEO 1999							0.5	3.4	1.4	-4.4	-2.6	-3.2	-3.2	-8.4	-14.7	-15.7									
AEO 2000								0.7	-0.8	-7.3	-6.5	-8.7	-9.7	-15.2	-20.7	-21.4									
AEO 2001									2.1	-3.3	-3.5	-5.9	-6.8	-13.6	-20.3	-22.7									
AEO 2002									-1.0	-2.9	-6.1	-6.0	-10.9	-17.3	-17.7										
AEO 2003										-2.9	-7.2	-7.9	-12.8	-20.3	-21.4										
AEO 2004										-2.7	-5.9	-11.8	-19.0	-20.6											
AEO 2005										-0.5	-5.5	-15.3	-19.6												
AEO 2006											5.1	-3.5	-9.0												
AEO 2007											-3.7	-4.4	-4.4												
AEO 2008											-0.1														
Average Absolute Percent Difference (All AEOs)	3.4	8.4	14.3	17.4	18.2	19.6	11.4	12.8	12.9	16.0	28.9	17.6	19.7	23.4	27.7	32.6	15.8	18.1	18.5	18.7	22.3	18.7	19.3		

* There is no report titled *Annual Energy Outlook 1988* due to a change in the naming convention of the AEOs.

Sources: Forecasts: *Annual Energy Outlook*, Mid-Price or Reference Case Projections, Various Editions.

Historical Data: Energy Information Administration, Annual Energy Review 2007, DOE/EIA-0384(2007) (Washington, DC, June 23, 2008), Table 8.6.

Table 16. Total Electricity Sales, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007		
AEO 1982	2364	2454	2534	2626	2708	2811																			
AEO 1983	2318	2395	2476	2565	2650	2739																			
AEO 1984	2321	2376	2461	2551	2637	2738																			
AEO 1985	2317	2360	2427	2491	2570	2651	2730	2808	2879	2949	3026														
AEO 1986	2363	2416	2479	2533	2608	2706	2798	2883	2966	3048	3116	3185	3255	3324	3397										
AEO 1987		2460	2494	2555	2622	2683	2748	2823	2902	2977															
AEO 1989*			2556	2619	2689	2760	2835	2917	2994	3072	3156	3236	3313	3394	3473										
AEO 1990				2612	2689					3083															
AEO 1991					2700	2762	2806	2855	2904	2959	3022	3088	3151	3214	3282	3355	3427	3496	3563	3632	3704	3776			
AEO 1992						2746	2845	2858	2913	2975	3030	3087	3146	3209	3276	3345	3415	3483	3552	3625	3699	3774			
AEO 1993							2803	2840	2893	2946	2998	3052	3104	3157	3214	3271	3327	3383	3438	3491	3542	3592			
AEO 1994								2843	2891	2928	2962	3004	3039	3071	3112	3148	3185	3228	3263	3298	3332	3371			
AEO 1995									2951	2967	2983	3026	3058	3085	3108	3134	3166	3204	3248	3285	3321	3357			
AEO 1996										2973	2998	3039	3074	3106	3137	3173	3215	3262	3317	3363	3409	3454			
AEO 1997											3075	3115	3168	3229	3290	3328	3379	3437	3497	3545	3596	3649			
AEO 1998												3106	3204	3255	3318	3388	3438	3488	3546	3601	3658	3716			
AEO 1999													3205	3262	3333	3402	3454	3492	3534	3585	3639	3691			
AEO 2000														3288	3360	3402	3461	3523	3585	3647	3699	3753			
AEO 2001															3364	3440	3530	3608	3681	3761	3838	3918			
AEO 2002																3443	3502	3619	3711	3793	3869	3948			
AEO 2003																	3414	3527	3617	3684	3762	3848			
AEO 2004																		3495	3582	3669	3750	3830			
AEO 2005																			3547	3649	3722	3813			
AEO 2006																				3675	3700	3767			
AEO 2007																					3694	3757			
AEO 2008																						3744			
Actual	2324	2369	2457	2578	2647	2713	2762	2763	2861	2935	3013	3101	3146	3264	3312	3421	3394	3465	3494	3547	3661	3670	3748		
Average Absolute Difference (All AEOs)	14.0	26.6	28.9	54.3	52.4	51.9	30.8	47.2	22.9	32.4	65.6	78.8	77.8	117.0	111.6	136.1	93.6	103.0	91.4	96.6	119.7	113.5	117.5		

Table 16. Total Electricity Sales, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007		
AEO 1982	1.7	3.6	3.1	1.9	2.3	3.6																			
AEO 1983	-0.3	1.1	0.8	-0.5	0.1	1.0																			
AEO 1984	-0.1	0.3	0.2	-1.0	-0.4	0.9																			
AEO 1985	-0.3	-0.4	-1.2	-3.4	-2.9	-2.3	-1.2	1.6	0.6	0.5	0.4														
AEO 1986	-0.2	-1.7	-3.8	-4.3	-3.9	-2.0	1.3	0.8	1.1	1.2	0.5	1.3	-0.3	0.4	-0.7										
AEO 1987	0.1	-3.3	-3.5	-3.3	-2.9	-0.6	-1.3	-1.1	-1.2																
AEO 1989*	-0.9	-1.1	-0.9	-0.1	2.6	1.9	2.0	1.9	1.8	2.9	1.5	2.5	1.5												
AEO 1990			-1.3	-0.9							2.3														
AEO 1991				-0.5	0.0	1.5	-0.2	-1.0	-1.8	-2.6	-1.8	-3.5	-3.0	-4.1	-1.2	-1.1	0.1	0.4	-0.8	0.9	0.7				
AEO 1992					-0.6	3.0	-0.1	-0.7	-1.3	-2.3	-1.9	-3.6	-3.1	-4.3	-1.5	-1.5	-0.3	0.1	-1.0	0.8	0.7				
AEO 1993						1.4	-0.8	-1.4	-2.2	-3.3	-3.0	-4.9	-4.7	-6.1	-3.6	-4.0	-3.2	-3.1	-4.6	-3.5	-4.2				
AEO 1994							-0.6	-1.5	-2.8	-4.5	-4.5	-6.9	-7.3	-9.0	-7.3	-8.1	-7.6	-8.0	-9.9	-9.2	-10.1				
AEO 1995								0.6	-1.5	-3.8	-3.8	-6.3	-6.9	-9.2	-7.7	-8.6	-8.3	-8.4	-10.3	-9.5	-10.4				
AEO 1996									-1.3	-3.3	-3.4	-5.8	-6.2	-8.3	-6.5	-7.2	-6.6	-6.5	-8.1	-7.1	-7.8				
AEO 1997										-0.8	-1.0	-2.9	-2.5	-3.8	-2.0	-2.5	-1.6	-1.4	-3.2	-2.0	-2.6				
AEO 1998										-1.3	-1.8	-1.7	-3.0	-0.2	-0.8	-0.2	0.0	-1.6	-0.3	-0.9	-0.9				
AEO 1999										-1.8	-1.5	-2.6	-0.2	-0.3	-0.1	-0.4	-2.1	-0.8	-1.5						
AEO 2000											-0.7	-1.8	0.2	-0.1	0.8	1.1	-0.4	0.8	0.8	0.1	0.1	0.1	0.1		
AEO 2001											-1.7	1.3	1.9	3.3	3.8	2.7	4.6	4.5							
AEO 2002												1.4	1.1	3.6	4.6	3.6	5.4	5.3							
AEO 2003													-1.5	1.0	2.0	0.6	2.5	2.7							
AEO 2004														0.0	1.0	0.2	2.2	2.2							
AEO 2005															0.0	-0.3	1.4	1.7							
AEO 2006																0.4	0.8	0.5							
AEO 2007																0.6	0.2								
AEO 2008																		-0.1							
Average Absolute Percent Difference (All AEOs)	0.6	1.1	1.2	2.1	2.0	1.9	1.1	1.7	0.8	1.1	2.2	2.5	2.5	3.6	3.4	4.0	2.8	3.0	2.6	2.7	3.3	3.1	3.1		

* There is no report titled *Annual Energy Outlook 1988* due to a change in the naming convention of the AEOs.

Sources: Forecasts: *Annual Energy Outlook*, Mid-Price or Reference Case Projections, Various Editions.

Historical Data: Energy Information Administration, Annual Energy Review 2007, DOE/EIA-0384(2007) (Washington, DC, June 23, 2008), Table 8.1, Retail Sales.

Table 17. Total Energy Consumption, Projected vs. Actual

(quadrillion Btu)

(quadrillion Btu)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007				
AEO 1982	79.1	79.6	79.9	80.8	82.1	83.3																					
AEO 1983	78.0	79.5	81.0	82.4	83.9	84.6																					
AEO 1984	78.5	79.4	81.2	83.1	85.1	86.4																					
AEO 1985	77.6	78.5	79.8	81.2	82.7	83.3	84.2	85.0	85.7	86.3	87.2																
AEO 1986	77.0	78.8	79.8	80.7	81.5	82.9	83.8	84.6	85.3	86.0	86.6	87.4	88.3	89.4	90.2												
AEO 1987		78.9	80.0	82.0	82.8	83.9	85.1	86.2	87.1	87.9																	
AEO 1989*			82.2	83.8	84.5	85.4	86.2	87.1	87.8	88.7	89.5	90.4	91.4	92.4	93.5												
AEO 1990				84.2	85.4		91.9					97.4															
					84.4	85.0	86.0	87.0	87.9	89.1	90.4	91.8	93.1	94.3	95.6	97.1	98.4	99.4	100.3	101.4	102.5	103.6					
AEO 1991						84.7	87.0	88.0	89.2	90.5	91.4	92.4	93.4	94.5	95.6	96.9	98.0	99.0	100.0	101.2	102.2	103.2					
AEO 1992							87.0	88.3	89.8	91.4	92.7	94.0	95.3	96.3	97.5	98.6	99.7	100.7	101.7	102.6	103.5	104.3					
AEO 1993								88.0	89.5	90.7	91.7	92.7	93.6	94.6	95.7	96.7	97.7	98.9	100.0	101.7	102.7						
AEO 1994									89.2	90.0	90.6	91.9	93.0	93.8	94.6	95.3	96.2	97.2	98.4	99.4	100.3	101.2					
AEO 1995									90.6	91.3	92.5	93.5	94.3	95.1	95.9	96.9	98.0	99.2	100.4	101.4	102.1						
AEO 1996										92.6	93.6	95.1	96.6	97.9	98.8	99.9	101.2	102.4	103.4	104.7	105.8						
AEO 1997											94.7	96.7	98.6	99.8	101.3	102.4	103.4	104.5	105.8	107.3	108.6						
AEO 1998											94.6	97.0	99.2	100.9	102.0	102.8	103.6	104.7	106.0	107.2							
AEO 1999												96.4	98.1	99.4	100.9	102.4	103.8	105.3	106.6	107.9							
AEO 2000													97.6	99.9	102.2	104.1	105.6	107.0	108.5	110.0							
AEO 2001														98.3	101.0	104.1	105.8	107.6	109.3	110.8							
AEO 2002															97.5	99.9	101.7	103.2	105.1	107.2							
AEO 2003																98.1	100.2	102.8	104.9	106.8							
AEO 2004																	99.8	101.8	103.6	105.6							
AEO 2005																		100.5	101.3	103.3							
AEO 2006																			100.7								
AEO 2007																				101.4							
AEO 2008																					101.6						
Actual	76.5	76.8	79.2	82.8	84.9	84.7	84.6	86.0	87.6	89.3	91.2	94.2	94.8	95.2	96.8	99.0	96.3	97.9	98.2	100.4	100.5	99.9	101.6				
Average Absolute Difference (All AEOs)	1.8	2.1	1.0	1.5	1.9	1.2	0.7	0.9	1.1	1.4	1.9	3.4	2.6	2.0	2.3	3.1	2.2	2.1	2.6	2.1	2.6	4.2	3.7				

Table 17. Total Energy Consumption, Projected vs. Actual

(percent difference)

(percent difference)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	
AEO 1982	3.4	3.8	0.9	-2.4	-3.4	-1.6																		
AEO 1983	1.9	3.6	2.3	-0.5	-1.3	-0.1																		
AEO 1984	2.6	3.5	2.6	0.4	0.2	2.1																		
AEO 1985	1.4	2.3	0.8	-1.9	-2.7	-1.6	-0.5	-1.1	-2.2	-3.3	-4.4													
AEO 1986	0.4	-0.5	-3.6	-5.0	-3.7	-2.0	-2.5	-3.4	-4.4	-5.7	-8.0	-7.8	-7.2	-7.7	-8.9									
AEO 1987		-0.3	-3.4	-3.5	-2.2	-0.8	-1.0	-1.6	-2.4	-3.6														
AEO 1989*		-0.7	-1.4	-0.2	0.9	0.3	-0.6	-1.6	-2.7	-5.0	-4.6	-4.0	-4.6	-5.5										
AEO 1990		-0.9	0.9							0.8					-1.6						2.3			
AEO 1991			-0.3	0.4	0.1	-0.7	-1.5	-2.3	-4.0	-3.1	-2.2	-2.6	-3.4	0.8	0.5	1.2	-0.1	0.9	0.9	2.6	2.0			
AEO 1992				0.1	1.2	0.4	-0.1	-0.7	-2.9	-2.5	-1.8	-2.4	-3.4	0.6	0.2	0.8	-0.3	0.7	2.3	1.6				
AEO 1993					1.3	0.8	0.6	0.2	-1.6	-0.8	0.1	-0.5	-1.5	2.4	1.9	2.5	1.3	2.1	3.6	2.7				
AEO 1994						0.5	0.3	-0.5	-2.6	-2.2	-1.7	-2.3	-3.3	0.4	-0.2	0.7	-0.3	0.3	1.1					
AEO 1995							-0.1	-1.3	-3.8	-3.0	-2.3	-3.1	-4.4	-1.1	-1.7	-1.0	-2.0	-1.1	0.4	-0.4				
AEO 1996								-0.6	-3.1	-2.3	-1.8	-2.6	-3.9	-0.4	-1.0	-0.2	-1.1	-0.1	0.5	0.5				
AEO 1997									-1.6	-1.3	-0.1	-0.2	-1.1	2.6	2.1	3.0	2.0	2.9	4.9	4.1				
AEO 1998									-0.1	1.6	1.9	0.9	5.1	4.6	5.3	4.1	5.3	7.4	6.9					
AEO 1999										-0.6	0.2	0.2	4.7	4.2	4.7	3.2	4.2	6.1	5.5					
AEO 2000											-0.4	-0.8	3.2	3.1	4.3	3.4	4.7	6.8	6.2					
AEO 2001												-1.4	3.7	4.4	6.0	5.2	6.5	8.6	8.3					
AEO 2002													2.0	3.2	6.0	5.4	7.1	9.4	9.0					
AEO 2003														-0.4	1.7	1.3	2.6	5.3	5.5					
AEO 2004															-0.1	-0.1	2.2	5.0	5.1					
AEO 2005																-0.5	1.3	3.7	3.9					
AEO 2006																	0.0	1.4	1.7					
AEO 2007																	0.9	0.7						
AEO 2008																		-0.2						
Average Absolute Percent Difference (All AEOs)	2.3	2.7	1.2	1.8	2.3	1.4	0.8	1.1	1.3	1.6	2.1	3.6	2.8	2.1	2.4	3.1	2.2	2.1	2.7	2.0	2.6	4.2	3.6	

* There is no report titled *Annual Energy Outlook 1988* due to a change in the naming convention of the AEOs.

Sources: Forecasts: Annual Energy Outlook, Mid-Price or Reference Case Projections, Various Editions. Data for AEOs 1982 through 1989 adjusted for enhanced coverage of renewables in AER 1998.

Historical Data: Energy Information Administration, Annual Energy Review 2007, DOE/EIA-0384 (2007) (Washington, DC, June 23, 2008), Table 1.3.

Table 18. Total Residential Energy Consumption, Projected vs. Actual

(quadrillion Btu)		1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007		
AEO 1982		10.1	10.1	10.1	10.1	10.2	10.2																			
AEO 1983		9.8	9.9	10.0	10.1	10.2	10.1																			
AEO 1984		9.9	9.9	10.0	10.2	10.3	10.3																			
AEO 1985		9.8	10.0	10.1	10.3	10.6	10.6																			
AEO 1986			9.6	9.8	10.0	10.3	10.4																			
AEO 1987				9.9	10.2	10.3	10.3	10.4	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5			
AEO 1989*					10.3	10.5	10.4	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5			
AEO 1990						10.4	10.7																			
AEO 1991							10.2	10.7	10.7	10.8	10.8	10.8	10.9	10.9	10.9	11.0	11.0	11.0	11.1	11.2	11.2	11.2	11.3	11.4		
AEO 1992								10.6	11.1	11.1	11.1	11.1	11.1	11.2	11.2	11.3	11.3	11.4	11.5	11.5	11.6	11.7	11.8	11.8		
AEO 1993									10.7	10.9	11.0	11.0	11.0	11.1	11.1	11.1	11.1	11.2	11.2	11.2	11.2	11.3	11.3	11.4		
AEO 1994										10.3	10.4	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		
AEO 1995										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		
AEO 1996											10.4	10.7	10.7	10.7	10.8	10.8	10.8	10.9	10.9	11.0	11.2	11.2	11.3	11.4		
AEO 1997												11.1	10.9	11.1	11.1	11.2	11.2	11.2	11.3	11.4	11.5	11.5	11.6	11.6	11.6	
AEO 1998													10.7	11.1	11.2	11.4	11.5	11.5	11.6	11.7	11.8	11.9	11.9	11.9	11.9	
AEO 1999														10.5	11.1	11.3	11.3	11.4	11.5	11.5	11.6	11.6	11.7	11.7	11.7	11.7
AEO 2000															10.7	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.6		
AEO 2001																10.8	11.2	11.4	11.6	11.8	11.9	12.0	12.1	12.1		
AEO 2002																	11.3	11.5	11.8	12.0	12.0	12.1	12.1	12.1		
AEO 2003																		11.1	11.6	11.8	11.9	12.0	12.2	12.2	12.2	
AEO 2004																			11.5	11.8	11.9	12.0	12.2	12.2	12.2	
AEO 2005																				11.5	11.7	11.8	12.0	12.0	12.0	
AEO 2006																					11.7	11.7	11.8	11.8	11.8	
AEO 2007																						11.3	11.3	11.4	11.4	
AEO 2008																							11.5	11.5	11.5	
Actual		9.9	9.7	9.8	10.4	10.7	9.7	10.0	10.2	10.5	10.4	10.5	11.2	10.7	10.3	10.7	11.2	11.0	11.3	11.6	11.4	11.6	10.9	11.4		
Average Absolute Difference (All AEOs)		0.1	0.2	0.2	0.3	0.3	0.6	0.5	0.5	0.2	0.3	0.3	0.4	0.2	0.5	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.7	0.4		

Table 18. Total Residential Energy Consumption, Projected vs. Actual

(percent difference)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007				
AEO 1982	2.4	4.1	2.5	-2.8	-4.2	4.6																					
AEO 1983	-0.4	1.9	1.1	-3.5	-4.6	4.1																					
AEO 1984	0.0	2.2	1.7	-2.6	-3.3	6.1																					
AEO 1985	-1.1	2.9	2.9	-0.8	-1.1	9.0																					
AEO 1986	-1.1	-1.1	-0.5	-3.6	-3.4	6.8																					
AEO 1987		1.0		-2.4	-3.3	6.1	3.7	2.9	-0.5	0.9	0.3																
AEO 1989*			-1.1	-1.6	7.2	4.4	3.0	-0.7	0.5	0.0		-6.3	-2.2	1.9	-2.1												
AEO 1990				-2.9	9.7				2.3							-2.0											
AEO 1991					5.3	6.6	5.5	1.9	3.3	2.9	-2.8	1.6	6.2	2.4	-2.2	0.6	-1.5	-3.8	-1.8	-2.4	4.3		-0.1				
AEO 1992						5.6	9.3	4.9	6.2	5.7	-0.3	4.3	9.1	5.4	0.8	3.7	1.9	-0.6	1.6	0.9	7.9		3.3				
AEO 1993							5.2	3.3	5.0	4.5	-1.3	3.2	7.7	3.9	-0.9	1.7	-0.7	-3.4	-1.7	-2.6	4.0		-0.7				
AEO 1994								-2.3	-0.7	-1.4	-7.1	-3.1	1.2	-2.7	-7.4	-5.0	-7.3	-10.0	-8.6	-9.7	-3.6		-8.1				
AEO 1995									5.1	2.8	-3.2	0.9	5.0	0.7	-4.3	-2.3	-4.8	-7.8	-6.4	-7.7	-1.7		-6.3				
AEO 1996										-1.0	-4.5	-0.2	4.2	0.7	-3.5	-1.0	-2.8	-5.0	-2.4	-3.2	3.7		-0.4				
AEO 1997										-0.9	-0.2	4.2	0.7	-3.5	-1.0	-2.8	-5.0	-2.4	-3.2	3.7			-0.4				
AEO 1998										0.0	8.0	4.7	1.1	4.4	2.5	0.1	2.5	1.6	9.0				4.4				
AEO 1999											2.5	4.1	0.2	3.4	1.4	-1.3	1.0	-0.1		6.9				2.4			
AEO 2000											0.2	-2.6	0.4	0.4	-1.2	-3.4	-0.8	-1.5						5.5			
AEO 2001												4.0	1.7	1.2	-0.3	2.9	2.4								5.6		
AEO 2002													2.5	2.5	1.6	4.6	3.6	10.9	6.2								
AEO 2003													-1.1	0.2	0.2	3.3	2.8	10.7	6.4								
AEO 2004														-0.7	2.9	2.4									6.3		
AEO 2005															0.3	0.6	8.4	5.2									
AEO 2006															0.9	7.8										3.2	
AEO 2007																3.6	3.0										
AEO 2008																	0.1										
Average Absolute Percent Difference (All AEOs)	1.0	2.4	1.6	2.4	3.1	6.5	3.4	3.7	1.7	2.4	2.5	2.9	1.6	4.8	2.3	3.2	2.3	2.4	3.1	2.9	2.8	6.6	3.5				

⁷ There is no report titled *Annual Energy Outlook 1988* due to a change in the naming convention of the AEO.

Sources: Forecasts: Annual Energy Outlook, Mid-Price or Reference Case Projections, Various Editions. Data for AEOs 1982 through 1989 adjusted for enhanced coverage of renewables in AEO 1998. Historical Data: Energy Information Administration, Annual Energy Review 2007, DOE/EIA-0384(2007) (Washington, DC, June 23, 2008), Table 2.1b.

Table 19. Total Commercial Energy Consumption, Projected vs. Actual

(quadrillion Btu)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	
AEO 1982	6.6	6.7	6.8	6.8	6.8	6.9																		
AEO 1983	6.4	6.6	6.8	6.9	7.0	7.1																		
AEO 1984	6.2	6.4	6.5	6.7	6.8	6.9																		
AEO 1985	5.9	6.1	6.2	6.3	6.4	6.5																		
AEO 1986	6.2	6.3	6.4	6.4	6.5																			
AEO 1987		6.1	6.1	6.3	6.4	6.6	6.7	6.8	6.9	6.9	6.9													
AEO 1989*			6.6	6.7	6.9	7.0	7.0	7.1	7.2	7.3	7.3	7.3	7.4	7.5	7.6	7.7								
AEO 1990				6.6	6.8																			
AEO 1991					6.7	6.9	7.0	7.1	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4		
AEO 1992						6.8	7.1	7.2	7.3	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5		
AEO 1993							7.2	7.3	7.4	7.4	7.5	7.6	7.7	7.7	7.8	7.9	8.0	8.0	8.1	8.1	8.1	8.1		
AEO 1994								6.8	6.9	6.9	7.0	7.1	7.1	7.2	7.2	7.3	7.4	7.4	7.4	7.4	7.5			
AEO 1995									6.9	6.9	7.0	7.0	7.0	7.1	7.1	7.1	7.1	7.1	7.2	7.2	7.2	7.2		
AEO 1996										7.1	7.2	7.2	7.3	7.4	7.4	7.5	7.6	7.6	7.7	7.7	7.7	7.8		
AEO 1997											7.4	7.4	7.5	7.5	7.6	7.7	7.7	7.8	7.8	7.9	7.9	7.9		
AEO 1998												7.5	7.6	7.7	7.8	7.9	8.0	8.0	8.1	8.2	8.3	8.4	8.4	
AEO 1999													7.4	7.8	7.9	8.0	8.1	8.2	8.2	8.3	8.4	8.5		
AEO 2000														7.4	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5		
AEO 2001															7.8	7.8	7.9	8.0	8.1	8.2	8.3	8.4		
AEO 2002																8.2	8.4	8.7	8.9	9.0	9.2	9.4		
AEO 2003																	8.4	8.6	8.8	9.0	9.1	9.3		
AEO 2004																		8.4	8.5	8.8	9.0	9.2		
AEO 2005																			8.3	8.4	8.6	8.9		
AEO 2006																				8.4	8.3	8.5		
AEO 2007																					8.3	8.5		
AEO 2008																						8.6		
Actual	6.0	6.1	6.3	6.6	6.8	6.7	6.8	6.9	7.0	7.1	7.3	7.6	7.8	7.6	7.8	8.2	8.1	8.2	8.3	8.4	8.4	8.2	8.5	
Average Absolute Difference (All AEOs)	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.4	0.2	0.2	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4		

Table 19. Total Commercial Energy Consumption, Projected vs. Actual

(percent difference)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007			
AEO 1982	9.2	10.1	7.7	2.0	0.7	2.2																				
AEO 1983	6.5	8.6	7.9	3.7	3.1	5.1																				
AEO 1984	3.2	4.5	3.9	0.4	0.4	3.2																				
AEO 1985	-2.6	-0.1	-1.2	-5.2	-5.5	-3.8																				
AEO 1986	0.9	0.1	-3.8	-4.9	-2.8																					
AEO 1987		-2.8	-7.4	-7.5	-4.9	-3.9	-2.9	-2.8	-3.4	-3.4	-5.3															
AEO 1989*		-1.2	-0.5	2.0	2.0	2.8	2.6	1.3		-0.5	-3.5	-4.6	-2.1	-2.9												
AEO 1990			-2.2	0.8						-0.3	-3.7	-4.9	-2.2	-2.7	-6.4	-4.3	-4.3	-4.4	-3.7	-3.7	-2.1	2.0	-0.7			
AEO 1991				-0.3	0.8	2.0	1.7	0.6	-1.3	-1.0	-2.3	0.1	-0.6	-0.6	-4.7	-2.9	-3.6	-4.3	-4.4	-3.6	-3.6	-0.6	-4.0			
AEO 1992					-0.2	3.6	3.1	2.2	0.3	-2.0	-3.0	-0.2	-0.6	-0.6	-4.3	-2.1	-2.5	-2.7	-2.1	-0.8	-0.8	3.1	0.4			
AEO 1993						4.5	4.3	3.6	1.4	-1.0	-2.3	0.1	-0.6	-0.6	-4.7	-2.9	-3.6	-4.3	-4.4	-3.6	-3.6	-0.6	-4.0			
AEO 1994							-1.9	-3.2	-5.1	-7.6	-9.0	-6.7	-7.9	-11.8	-10.2	-10.8	-11.6	-11.9	-11.4	-11.4	-8.6	-11.9				
AEO 1995								-2.2	-5.7	-8.3	-9.9	-8.1	-9.3	-13.5	-12.4	-13.4	-14.4	-14.7	-14.3	-14.3	-11.8	-14.9				
AEO 1996									-3.5	-5.3	-6.8	-4.7	-5.6	-5.6	-9.7	-8.1	-8.6	-9.2	-9.0	-8.1	-4.9	-7.8				
AEO 1997										-2.3	-6.8	-4.7	-5.6	-5.6	-9.7	-8.1	-8.6	-9.2	-9.0	-8.1	-4.9	-7.8				
AEO 1998										-3.7	-0.1	-0.7	-4.6	-2.7	-3.1	-3.5	-3.1	-3.1	-1.9	1.7	1.7	1.7	-1.4			
AEO 1999											-2.6	0.6	-3.2	-1.1	-1.4	-1.9	-1.6	-1.6	-0.5	3.0	3.0	3.0	0.0			
AEO 2000											-0.8	-4.5	-2.1	-2.2	-2.7	-2.3	-2.3	-2.3	-1.0	2.6	2.6	2.6	-0.3			
AEO 2001												-4.8	-0.4	1.6	2.7	4.0	6.0	6.0	10.6	8.1						
AEO 2002													1.0	2.2	4.1	6.1	8.2	13.1	10.8							
AEO 2003														1.9	2.7	4.8	7.1	11.9	9.3							
AEO 2004															1.3	1.7	4.7	10.1	8.2							
AEO 2005																-0.6	0.4	5.6	4.4							
AEO 2006																	0.8	2.0	-0.1							
AEO 2007																		2.3	0.3							
AEO 2008																			1.0							
Average Absolute Percent Difference (All AEOs)	5.4	4.8	3.9	3.4	3.1	2.8	1.1	2.3	2.0	1.8	3.1	3.8	5.1	2.9	3.1	7.6	4.6	4.9	5.3	5.3	5.1	5.8	5.1			

* There is no report titled *Annual Energy Outlook 1988* due to a change in the naming convention of the AEOs.

Sources: Forecasts: *Annual Energy Outlook*, Mid-Price or Reference Case Projections, Various Editions.

Historical Data: Energy Information Administration, Annual Energy Review 2007, DOE/EIA-0384(2007) (Washington, DC, June 23, 2008), Table 2.1c.

Table 20. Total Industrial Energy Consumption, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007				
AEO 1982	24.0	24.1	24.4	24.9	25.5	26.1																					
AEO 1983	23.2	23.6	23.9	24.4	24.9	25.0																					
AEO 1984	24.1	24.5	25.4	25.5	27.1	27.4																					
AEO 1985	23.2	23.6	23.9	24.4	24.8	24.8																					
AEO 1986	22.2	22.8	23.1	23.4	23.4																						
AEO 1987		22.4	22.8	23.7	24.0	24.3	24.6	24.6	24.7	24.9	25.4																
AEO 1989*			23.6	24.0	24.1	24.3	24.5	24.3	24.3	24.5	24.5	24.6	24.8	24.9	24.4	24.1											
AEO 1990				25.0	25.4																			28.6			
AEO 1991				24.6	24.5	24.8	24.8	25.0	25.3	25.7	26.2	26.5	26.1	25.9	26.2	26.4	26.6	26.7	27.0	27.2	27.4						
AEO 1992					24.6	25.3	25.4	25.6	26.1	26.3	26.5	26.5	26.0	25.6	25.8	26.0	26.1	26.2	26.4	26.7	26.9						
AEO 1993						25.3	25.4	25.6	26.1	26.3	26.5	26.5	26.0	25.6	25.8	26.0	26.1	26.2	26.4	26.7	26.9						
AEO 1994							25.4	25.9	26.3	26.7	27.0	27.1	26.8	26.6	26.9	27.2	27.7	28.1	28.3	28.7	29.1						
AEO 1995								26.2	26.3	26.5	27.0	27.3	26.9	26.6	27.1	27.5	27.9	28.2	28.4	28.7							
AEO 1996									26.5	26.6	27.3	27.5	26.9	26.5	26.7	26.9	27.2	27.6	27.9	28.2	28.3						
AEO 1997										26.2	26.5	26.9	27.7	27.1	27.4	27.8	28.0	28.4	28.7								
AEO 1998											27.2	27.5	27.2	27.1	27.5	27.7	27.9	28.3	28.7	29.0							
AEO 1999												26.7	26.4	26.4	26.8	27.1	27.3	27.5	27.9	28.3	28.6						
AEO 2000												25.8	25.5	25.7	26.0	26.5	26.9	27.4	27.8	28.1	28.5						
AEO 2001													25.8	26.2	26.6	27.0	27.3	27.7	28.1	28.5							
AEO 2002														24.5	25.8	26.6	27.0	27.5	28.0	28.5							
AEO 2003														25.5	25.9	26.4	26.7	27.2	27.7	28.2							
AEO 2004															24.5	24.9	25.7	26.1	26.5	27.1	27.5						
AEO 2005															25.5	25.9	26.2	26.4	27.0	27.7	28.1						
AEO 2006																25.2	25.4	26.1	26.6	27.1	27.7	28.2					
AEO 2007																25.3	25.5	26.1	26.6	27.1	27.7	28.2					
AEO 2008																							28.5				
Actual	22.3	21.9	22.9	23.9	24.1	24.4	24.1	25.1	25.1	25.9	26.2	27.0	27.3	26.8	26.6	26.5	25.2	25.2	25.0	25.9	24.9	24.9	24.9				
Average Absolute Difference (All AEOs)	1.3	1.6	1.1	0.8	1.0	1.0	0.3	0.4	0.4	0.6	1.0	0.9	0.7	0.5	0.6	1.0	1.2	1.3	1.8	1.2	2.3	2.4	2.8				

Table 20. Total Industrial Energy Consumption, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007		
AEO 1982	7.7	9.7	6.4	3.9	6.2	6.9																			
AEO 1983	3.9	7.4	4.4	1.8	3.4	2.1																			
AEO 1984	7.8	11.9	11.0	6.6	12.5	12.1																			
AEO 1985	3.8	7.4	4.3	2.0	3.2	1.4																			
AEO 1986	1.0	-0.6	-3.5	-2.8	-4.0																				
AEO 1987		-2.1	-4.7	-1.5	-2.0	0.8	-2.2	-2.0	-4.3	-4.9															
AEO 1989*		-1.5	-0.4	-1.5	-0.9	0.9	-2.5	-3.1	-5.8	-6.6	-8.7	-8.9	-7.1	-8.2	-8.9										
AEO 1990				3.9	4.0																				
AEO 1991				0.8	1.8	-1.2	-1.3	-3.4	-3.3	-4.7	-3.8	-1.2	-1.7	-2.2	3.8	4.7	6.3	3.2	8.1	8.9	10.3				
AEO 1992				2.3	0.8	1.2	-0.8	-0.4	-2.6	-2.9	-1.0	-2.3	-3.3	2.2	2.9	4.3	1.2	6.0	6.9	8.2					
AEO 1993				0.8	1.2	-0.8	-0.4	-2.6	-2.9	-1.0	-2.3	-3.3	2.2	2.9	4.3	1.2	6.0	6.9	8.2						
AEO 1994				1.2	0.2	0.4	-1.2	-1.1	1.0	0.6	0.4	6.6	7.9	10.5	8.3	13.6	14.9	16.9							
AEO 1995				1.2	0.3	0.3	-1.7	-0.8	1.7	1.0	0.3	6.2	7.4	9.7	7.5	12.9	14.0	15.5							
AEO 1996				1.3	-1.3	0.2	2.5	1.1	-0.1	5.7	6.7	8.8	6.4	11.9	12.8	13.8									
AEO 1997				0.2	2.4	2.5	1.1	-0.1	5.7	6.7	8.8	6.4	11.9	12.8	13.8										
AEO 1998				-0.1	2.4	2.4	1.5	7.5	7.5	8.8	10.5	7.8	13.4	15.0	16.7										
AEO 1999				-0.2	-0.7	-0.2	-0.2	6.3	7.6	9.2	6.1	11.7	13.3	15.1											
AEO 2000				-3.0	-3.7	1.8	3.0	5.8	3.9	9.8	11.3	13.0													
AEO 2001				-2.7	3.7	5.3	8.1	5.4	10.9	12.5	14.5														
AEO 2002				-2.7	2.4	6.4	4.3	10.2	12.1	14.4															
AEO 2003				0.9	3.6	1.2	5.7	7.2	9.4																
AEO 2004																									
AEO 2005																									
AEO 2006																									
AEO 2007																									
AEO 2008																									
Average Absolute Percent Difference (All AEOs)	5.8	7.5	4.8	3.4	4.2	3.9	0.9	1.1	1.2	1.8	3.9	2.9	2.1	2.0	2.0	3.9	4.5	5.2	7.0	4.5	9.1	9.5	11.4		

* There is no report titled Annual Energy Outlook 1988 due to a change in the naming convention of the AEOs.

Sources: Forecasts: Annual Energy Outlook, Mid-Price or Reference Case Projections, Various Editions. Data for AEOs 1982 through 2000 adjusted for enhanced coverage of renewables in AER 1998 and the move of independent power producers from industrial to electricity generation in AER 2001.

Table 21. Total Transportation Energy Consumption, Projected vs. Actual

(quadrillion Btu)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007		
AEO 1982	18.6	18.2	17.7	17.3	17.0	16.9																			
AEO 1983	19.8	20.1	20.4	20.4	20.5	20.5																			
AEO 1984	19.2	19.0	19.0	19.0	19.1	19.2																			
AEO 1985	20.0	19.8	20.0	20.0	20.0	20.1																			
AEO 1986		20.5	20.8	20.8	20.6	20.7																			
AEO 1987			21.3	21.5	21.6	21.7	21.8	22.0	22.0	22.0	21.9														
AEO 1989*				21.8	22.2	22.4	22.4	22.5	22.5	22.5	22.5	22.6	22.7	22.8	23.0	23.2									
AEO 1990					22.0	22.4																			
AEO 1991					22.1	21.6	21.9	22.1	22.3	22.5	22.8	23.1	23.4	23.8	24.1	24.5	24.8	25.1	25.4	25.7	26.0	26.3			
AEO 1992						21.7	22.0	22.5	22.9	23.2	23.4	23.6	23.9	24.1	24.4	24.8	25.1	25.4	25.7	26.0	26.3	26.6			
AEO 1993							22.5	22.8	23.4	23.9	24.3	24.7	25.1	25.4	25.7	26.1	26.5	26.8	27.2	27.6	27.9	28.1			
AEO 1994								23.6	24.1	24.5	24.7	25.1	25.4	25.7	26.2	26.5	26.9	27.2	27.6	27.9	28.3	28.6			
AEO 1995									23.3	24.0	24.2	24.7	25.1	25.5	25.9	26.2	26.5	26.9	27.3	27.7	28.0	28.3			
AEO 1996										23.9	24.1	24.5	24.8	25.3	25.7	26.0	26.4	26.7	27.1	27.5	27.8	28.1			
AEO 1997											24.7	25.3	25.9	26.4	27.0	27.5	28.0	28.5	28.9	29.4	29.8	30.3			
AEO 1998												25.3	25.9	26.7	27.1	27.7	28.3	28.8	29.4	30.0	30.6	31.2			
AEO 1999													25.4	26.0	27.0	27.6	28.2	28.8	29.4	30.0	30.6	31.2			
AEO 2000														26.2	26.8	27.4	28.0	28.5	29.1	29.7	30.3	30.9			
AEO 2001															26.8	27.5	28.3	28.8	29.4	30.0	30.6	31.2			
AEO 2002																27.5	28.0	28.9	29.5	30.2	30.7	31.3			
AEO 2003																	27.2	27.7	28.3	28.9	29.7	30.5			
AEO 2004																		27.2	28.1	28.9	29.6	30.2			
AEO 2005																			27.8	28.4	29.0	29.7			
AEO 2006																				28.1	28.4	29.0			
AEO 2007																				28.4	28.7				
AEO 2008																					28.5				
Actual	20.1	20.8	21.4	22.3	22.4	22.4	22.1	22.4	22.7	23.3	23.8	24.4	24.7	25.2	25.9	26.5	26.2	26.8	27.0	27.8	28.3	28.8	29.0		
Average Absolute Difference (All AEOs)	0.7	1.2	1.6	2.2	2.1	1.7	0.4	0.3	0.5	0.6	1.6	0.7	0.7	0.8	0.9	1.7	1.0	0.9	1.0	1.1	1.2	1.2	1.3		

Table 21. Total Transportation Energy Consumption, Projected vs. Actual

(percent difference)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007		
AEO 1982	-7.2	-12.4	-17.4	-22.5	-24.1	-24.3																			
AEO 1983	-1.5	-3.1	-4.9	-8.3	-8.9	-8.6																			
AEO 1984	-4.4	-8.6	-11.5	-14.7	-14.9	-14.0																			
AEO 1985	-0.3	-4.8	-6.8	-10.2	-10.7	-10.4																			
AEO 1986	-1.2	-3.0	-6.7	-8.0	-7.5																				
AEO 1987	-0.9	-3.6	-3.8	-3.1	-1.2	-1.9	-3.0	-5.6	-7.9																
AEO 1989*	-2.1	-0.9	0.0	1.4	0.4	-1.2	-3.7	-5.5	-7.4	-8.4	-9.7	-11.4													
AEO 1990	-1.9	-0.1	-1.4	-2.2	-2.1	-2.7	-4.5	-5.5	-6.6	-6.4	-7.1	-8.3													
AEO 1991			-1.6	-1.9	-1.1	-1.9	-2.5	-4.1	-4.5	-5.4	-7.0	-8.0	-5.5	-6.3	-5.7	-7.7	-8.1	-8.6	-8.4						
AEO 1993			0.5	0.1	0.1	0.4	3.9	3.2	2.7	1.3	1.4	0.6	-0.7	-1.3	1.0	0.2	1.0	-1.1	-1.4	-1.9	-1.5				
AEO 1994									-0.3	0.8	-0.9	-0.1	-0.4	-1.6	-2.5	-0.3	-1.1	-0.3	-2.0	-2.3	-2.6	-3.2	-3.2		
AEO 1995										0.4	-1.3	-1.0	-1.5	-2.5	-3.2	-0.7	-1.6	-0.8	-2.8	-2.9	-3.5	-3.2			
AEO 1996											1.2	-1.0	-1.5	-2.5	-3.2	-0.7	-1.6	-0.8	-2.8	-2.9	-3.5	-3.2			
AEO 1997												2.6	2.5	2.9	2.4	5.7	5.6	7.0	5.6	5.9	6.2	7.3			
AEO 1998													0.8	0.2	1.9	5.3	5.3	6.9	5.4	5.9	6.2	7.3			
AEO 1999														1.3	1.2	4.4	4.3	5.7	4.6	5.0	5.2	6.3			
AEO 2000															1.2	5.0	5.4	6.9	5.6	6.0	6.3	7.5			
AEO 2001																4.8	4.6	7.3	6.1	6.6	6.7	8.0			
AEO 2002																	1.3	3.0	1.6	2.2	3.1	5.1			
AEO 2003																		0.9	0.8	2.1	2.8	4.2			
AEO 2004																			-0.2	0.4	0.7	2.3			
AEO 2005																			-0.8	-1.3	0.0				
AEO 2006																			-1.3	0.0					
AEO 2007																				-1.3					
AEO 2008																									
Average Absolute Percent Difference (All AEOs)	3.3	6.0	7.4	9.7	9.2	7.7	1.1	1.0	1.5	2.2	6.6	2.6	2.5	2.9	3.4	6.3	3.4	3.5	3.8	3.8	4.4	4.3	4.5		

* There is no report titled *Annual Energy Outlook 1988* due to a change in the naming convention of the AEOs.

Sources: Forecasts: *Annual Energy Outlook*, Mid-Price or Reference Case Projections, Various Editions.

Historical Data: Energy Information Administration, Annual Energy Review 2007, DOE/EIA-0384(2007) (Washington, DC, June 23, 2008), Table 2.1e.

Table 22. Total Carbon Dioxide Emissions, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	
AEO 1982																								
AEO 1983																								
AEO 1984																								
AEO 1985																								
AEO 1986																								
AEO 1987																								
AEO 1989*																								
AEO 1990																								
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AEO 2004																								
AEO 2005																								
AEO 2006																								
AEO 2007																								
AEO 2008																								
Actual	4638	4643	4800	5013	5106	5018	4969	5079	5203	5288	5343	5531	5607	5633	5703	5891	5806	5876	5940	6020	6045	5934	5984	
Average Absolute Difference (All AEOs)																								
	70.0	146.7	156.2	156.7	287.8	267.8	199.1	184.5	293.6	163.7	173.4	173.4	174.6	157.6	205.2	228.2								

Table 22. Total Carbon Dioxide Emissions, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	
AEO 1982																								
AEO 1983																								
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AEO 2005																								
AEO 2006																								
AEO 2007																								
AEO 2008																								
Average Absolute Percent Difference (All AEOs)	1.4	2.8	3.0	2.9	5.2	4.8	3.5	3.2	5.0	2.8	3.0	2.9	2.9	2.6	3.5	3.8								

* There is no report titled *Annual Energy Outlook 1988* due to a change in the naming convention of the AEOs.

Sources: Forecasts: *Annual Energy Outlook*, Mid-Price or Reference Case Projections, Various Editions.

Historical Data: Energy Information Administration, Annual Energy Review 2007, DOE/EIA-0384(2007) (Washington, DC, June 23, 2008), Table 12.1, and 2007 estimate from <http://www.eia.doe.gov/oiaf/1605/flash/flash.html>.

Table 23. Energy Intensity, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	
AEO 1982	20.1	18.5	16.9	15.5	14.4	13.2																		
AEO 1983	19.9	18.7	17.4	16.2	15.1	14.0																		
AEO 1984	20.1	19.0	17.7	16.5	15.5	14.5																		
AEO 1985	20.0	19.1	18.0	16.9	15.9	14.7	13.7	12.7	11.8	11.0	10.3													
AEO 1986																								
AEO 1987																								
AEO 1988*																								
AEO 1989																								
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AEO 2008																								
Actual	18.1	17.2	16.7	16.2	15.5	14.6	14.1	13.6	13.2	12.6	12.3	12.0	11.4	10.9	10.4	10.1	9.5	9.3	9.0	8.6	8.1	7.6	7.3	
Average Absolute Difference (All AEOs)	1.9	1.5	0.9	0.5	0.6	0.6	0.5	0.6	0.7	0.8	1.1	0.6	0.7	0.7	0.7	0.8	0.5	0.4	0.4	0.4	0.5	0.6	0.5	

Table 23. Energy Intensity, Projected vs. Actual

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	
AEO 1982	10.8	7.5	1.1	-4.2	-7.2	-9.2																		
AEO 1983	9.8	8.5	4.3	-0.1	-2.4	-4.2																		
AEO 1984	10.7	10.2	5.9	1.8	0.1	-0.9																		
AEO 1985	10.2	11.3	7.7	4.4	2.5	0.9	-3.1	-6.5	-10.2	-12.7	-16.6													
AEO 1986	6.6	6.4	3.8	3.9	4.0	1.4	-1.0	-4.4	-7.0	-11.4	-15.7	-17.0	-18.6	-20.5	-22.9									
AEO 1987	5.4	4.9	5.1	5.3	3.0	1.4	-1.7	-3.8	-7.6	-11.2	-15.1	-15.7	-16.9	-18.6	-20.3									
AEO 1989*																								
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AEO 2005																								
AEO 2006																								
AEO 2007																								
AEO 2008																								
Average Absolute Percent Difference (All AEOs)	10.4	8.8	5.1	3.4	3.7	4.4	3.4	4.3	5.4	6.4	8.7	5.0	5.8	6.4	6.7	8.1	5.0	4.2	4.4	4.5	6.6	7.4	6.8	

* There is no report titled Annual Energy Outlook 1988 due to a change in the naming convention of the AEOs.

Sources: Forecasts: Annual Energy Outlook, Mid-Price or Reference Case Projections, Various Editions.

Historical Data: Energy Information Administration, Annual Energy Review 2007, DOE/EIA-0384(2007) (Washington, DC, June 23, 2008), Table 1.3, and Bureau of Economic Analysis, US Dept. of Commerce, <http://www.bea.gov/bea/dn1.htm>, July 2008.