

**Table 1.7 Primary Energy Consumption, Energy Expenditures, and Carbon Dioxide Emissions Indicators**

	Primary Energy Consumption <sup>a</sup>			Energy Expenditures <sup>b</sup>				Carbon Dioxide Emissions <sup>c</sup>		
	Consumption	Consumption per Capita	Consumption per Real Dollar <sup>d</sup> of GDP <sup>e</sup>	Expenditures	Expenditures per Capita	Expenditures as Share of GDP <sup>e</sup>	Expenditures as Share of Gross Output <sup>f</sup>	Emissions	Emissions per Capita	Emissions per Real Dollar <sup>d</sup> of GDP <sup>e</sup>
	Quadrillion Btu	Million Btu	Thousand Chained (2012) Dollar <sup>d</sup>	Million Nominal Dollars <sup>g</sup>	Nominal Dollars <sup>g</sup>	Percent	Percent	Million Metric Tons Carbon Dioxide	Metric Tons Carbon Dioxide	Metric Tons Carbon Dioxide per Million Chained (2012) Dollars <sup>d</sup>
1950	34.616	227	R 15.12	NA	NA	NA	NA	2,382	15.6	R 1,040
1955	40.208	242	R 14.00	NA	NA	NA	NA	2,685	16.2	R 935
1960	45.086	250	R 13.83	NA	NA	NA	NA	2,914	16.1	R 894
1965	54.015	278	R 12.95	NA	NA	NA	NA	3,462	17.8	R 830
1970	67.838	331	R 13.70	82,875	404	7.7	R 4.4	4,261	20.8	R 861
1975	71.965	333	R 12.75	171,851	796	10.2	R 5.6	4,421	20.5	R 783
1980	78.067	344	R 11.55	374,347	1,647	13.1	R 6.9	4,750	20.9	R 703
1981	76.106	332	R 10.98	427,898	1,865	13.3	R 7.1	4,625	20.2	R 667
1982	73.099	316	R 10.74	426,479	1,841	R 12.8	R 6.9	4,393	19.0	R 645
1983	72.971	312	R 10.25	417,617	1,786	11.5	R 6.3	4,371	18.7	R 614
1984	76.632	325	R 10.04	435,309	1,846	10.8	R 6.0	4,600	19.5	R 603
1985	76.392	321	R 9.61	438,339	1,842	10.1	R 5.6	4,593	19.3	R 578
1986	76.647	319	R 9.32	384,088	1,599	8.4	R 4.8	4,598	19.1	R 559
1987	79.054	326	R 9.29	397,623	1,641	8.2	4.6	4,757	19.6	R 559
1988	82.709	338	R 9.33	411,565	1,683	R 7.9	4.4	4,982	20.4	R 562
1989	84.785	344	R 9.22	439,046	1,779	7.8	4.4	5,066	20.5	R 551
1990	84.485	338	R 9.02	474,647	1,901	R 8.0	4.5	5,038	20.2	R 538
1991	84.437	334	R 9.03	472,434	1,867	7.7	4.4	4,993	19.7	R 534
1992	85.782	334	R 8.86	476,840	1,859	7.3	4.2	5,090	19.8	R 526
1993	87.325	336	R 8.78	492,267	1,894	7.2	R 4.1	5,181	19.9	R 521
1994	89.040	338	R 8.60	504,854	1,919	6.9	R 3.9	5,258	20.0	R 508
1995	90.991	342	R 8.56	514,622	1,933	6.7	3.8	5,321	20.0	R 501
1996	94.000	349	R 8.52	560,292	2,080	6.9	3.9	5,510	20.5	R 499
1997	94.571	347	R 8.21	567,960	2,083	6.6	3.7	5,582	20.5	R 484
1998	94.982	344	R 7.89	526,280	1,908	5.8	R 3.2	5,635	20.4	R 468
1999	96.615	346	R 7.66	558,624	2,002	5.8	3.2	5,687	20.4	R 451
2000	98.776	350	R 7.52	687,708	2,437	6.7	3.7	5,864	20.8	R 447
2001	96.129	337	R 7.25	696,240	2,443	6.6	3.7	5,759	20.2	R 434
2002	97.605	339	R 7.23	663,962	2,308	R 6.1	3.5	5,803	20.2	R 430
2003	97.898	337	R 7.05	755,068	2,603	6.6	R 3.7	5,854	20.2	R 422
2004	100.073	342	R 6.95	871,209	2,975	7.1	4.0	5,969	20.4	R 414
2005	100.168	339	R 6.72	1,045,729	3,539	8.0	4.4	5,990	20.3	R 402
2006	99.464	333	R 6.48	1,158,819	3,884	8.4	R 4.6	5,911	19.8	R 385
2007	100.971	335	R 6.46	1,233,864	4,096	8.5	4.7	6,002	19.9	R 384
2008	98.825	325	R 6.33	1,408,750	4,633	9.6	R 5.2	5,811	19.1	R 372
2009	R 94.023	R 306	R 6.18	1,066,275	3,476	7.4	4.3	R 5,388	17.6	R 354
2010	R 97.608	R 316	R 6.26	1,213,609	3,923	8.1	R 4.6	R 5,586	18.1	R 358
2011	R 96.949	311	R 6.12	1,391,358	4,465	9.0	R 5.0	R 5,446	17.5	R 344
2012	R 94.477	301	R 5.83	1,354,948	R 4,317	8.4	R 4.6	R 5,237	16.7	R 323
2013	R 97.218	308	R 5.89	1,376,201	R 4,354	8.2	R 4.5	R 5,363	17.0	R 325
2014	R 98.381	309	R 5.82	1,394,971	R 4,381	8.0	R 4.4	R 5,411	17.0	R 320
2015	R 97.484	304	R 5.61	1,127,726	R 3,516	6.2	R 3.5	R 5,265	16.4	R 303
2016	R 97.444	302	R 5.52	1,038,504	R 3,214	5.6	3.2	R 5,172	16.0	R 293
2017	R 97.807	301	R 5.42	NA	NA	NA	NA	R 5,131	15.8	R 284

<sup>a</sup> See "Primary Energy Consumption" in Glossary.  
<sup>b</sup> Expenditures include taxes where data are available.  
<sup>c</sup> Carbon dioxide emissions from energy consumption. See Table 12.1.  
<sup>d</sup> See "Chained Dollars" and "Real Dollars" in Glossary.  
<sup>e</sup> See "Gross Domestic Product (GDP)" in Glossary.  
<sup>f</sup> Gross output is the value of GDP plus the value of intermediate inputs used to produce GDP.  
<sup>g</sup> See "Nominal Dollars" in Glossary.  
R=Revised. NA=Not available.  
Notes: • Data are estimates. • Geographic coverage is the 50 states and the District of Columbia.  
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#summary> (Excel and CSV files) for all available annual data beginning in 1949.  
Sources: • **Consumption:** Table 1.3. • **Consumption per Capita:** Calculated as energy consumption divided by U.S. population (see Table C1).

• **Consumption per Real Dollar of GDP:** Calculated as energy consumption divided by U.S. gross domestic product in chained (2009) dollars (see Table C1).  
• **Expenditures:** U.S. Energy Information Administration, "State Energy Price and Expenditure Estimates, 1970 Through 2015" (June 2017), U.S. Table ET1.  
• **Expenditures per Capita:** Calculated as energy expenditures divided by U.S. population (see Table C1). • **Expenditures as Share of GDP:** Calculated as energy expenditures divided by U.S. gross domestic product in nominal dollars (see Table C1). • **Expenditures as Share of Gross Output:** Calculated as energy expenditures divided by U.S. gross output (see Table C1). • **Emissions:** 1949–1972—U.S. Energy Information Administration, *Annual Energy Review 2011*, Table 11.1. 1973 forward—Table 12.1. • **Emissions per Capita:** Calculated as carbon dioxide emissions divided by U.S. population (see Table C1). • **Emissions per Real Dollar of GDP:** Calculated as carbon dioxide emissions divided by U.S. gross domestic product in chained (2009) dollars (see Table C1).