

**Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Arizona**  
(trillion Btu)

Year	Fossil fuels										Fossil fuels (as commingled)			
	Coal	Natural gas excluding supplemental gaseous fuels <sup>a</sup>	Petroleum							Total	Total	Natural gas including supplemental gaseous fuels <sup>a</sup>	Distillate fuel oil including biofuels <sup>a</sup>	Motor gasoline including fuel ethanol <sup>a</sup>
			Distillate fuel oil excluding biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet fuel <sup>c</sup>	Motor gasoline excluding fuel ethanol <sup>a</sup>	Residual fuel oil	Other <sup>d</sup>	Total					
1960	0.2	140.3	16.2	2.8	25.3	64.9	0.8	11.3	121.3	261.8	140.3	16.2	64.9	
1965	7.0	166.1	20.6	4.0	30.1	78.8	0.5	11.8	145.7	318.8	166.1	20.6	78.8	
1970	8.6	204.4	28.5	5.0	36.4	113.2	0.7	29.6	213.3	426.3	204.4	28.5	113.2	
1971	8.9	225.9	30.5	5.0	37.1	120.6	3.4	24.7	221.2	456.0	225.9	30.5	120.6	
1972	7.5	241.4	44.1	5.4	38.2	134.3	10.1	29.0	261.1	510.0	241.4	44.1	134.3	
1973	9.9	226.3	60.0	5.2	39.9	146.2	46.1	28.6	325.9	562.1	226.3	60.0	146.2	
1974	48.4	205.0	55.5	5.5	39.8	140.3	51.5	33.0	325.8	579.1	205.0	55.5	140.3	
1975	92.4	164.3	59.1	4.2	39.0	145.5	37.4	21.6	306.8	563.5	164.3	59.1	145.5	
1976	140.0	180.2	58.9	3.4	36.8	152.0	35.6	20.7	307.4	627.5	180.2	58.9	152.0	
1977	179.8	176.4	73.9	3.5	39.6	161.6	48.9	23.6	351.2	707.4	176.4	73.9	161.6	
1978	160.0	186.4	83.8	4.2	41.0	170.4	31.2	26.8	357.4	703.7	186.4	83.8	170.4	
1979	246.2	180.6	69.7	6.5	43.4	168.6	31.0	26.7	345.8	772.6	180.6	69.7	168.6	
1980	245.0	174.0	62.7	5.9	43.9	160.7	8.4	19.6	301.3	720.2	174.0	62.7	160.7	
1981	319.4	192.2	58.2	4.8	41.6	161.9	1.6	16.3	284.4	796.1	192.2	58.2	161.9	
1982	336.2	142.3	48.1	6.1	42.6	165.2	2.0	14.5	278.5	757.0	142.3	48.1	165.2	
1983	295.4	120.4	52.1	6.2	39.1	173.3	3.4	15.1	289.2	705.0	120.4	52.1	173.3	
1984	324.9	126.8	55.9	5.6	44.2	181.7	3.4	21.1	311.9	763.6	126.8	55.9	181.7	
1985	342.0	137.3	58.9	6.4	39.4	189.9	1.1	21.4	317.1	796.4	137.3	58.9	189.9	
1986	295.9	105.1	65.1	6.4	42.6	198.8	0.3	21.5	334.6	735.6	105.2	65.1	198.8	
1987	282.9	121.3	59.6	7.3	46.4	206.3	0.8	21.6	342.0	746.1	121.4	59.6	206.3	
1988	309.0	128.6	60.1	6.4	47.0	211.3	0.3	22.7	347.7	785.3	128.6	60.1	211.3	
1989	353.1	151.5	65.3	6.0	45.3	213.5	1.0	21.6	352.7	857.3	151.5	65.3	213.5	
1990	343.4	130.8	66.2	5.6	47.3	206.6	0.2	21.4	347.2	821.4	130.8	66.2	206.6	
1991	347.3	128.2	59.9	6.3	53.7	213.2	1.3	20.3	354.7	830.1	128.2	59.9	213.2	
1992	369.7	133.8	66.6	7.7	46.4	218.3	0.7	25.6	365.2	868.8	133.8	66.6	218.3	
1993	389.8	118.2	82.5	6.7	44.2	224.2	1.2	20.3	379.3	887.2	118.2	82.5	224.2	
1994	402.4	139.7	80.6	6.9	41.9	234.9	1.3	22.1	387.7	929.8	139.7	80.6	234.9	
1995	342.9	127.9	88.0	7.2	43.0	243.1	0.5	25.7	407.6	878.4	127.9	88.0	243.1	
1996	342.8	125.3	101.2	6.0	44.9	255.6	0.7	21.7	430.0	898.1	125.3	101.2	255.6	
1997	369.9	137.6	104.2	4.5	45.2	252.5	0.1	23.5	430.1	937.6	137.6	104.2	254.4	
1998	386.8	161.1	108.6	5.1	49.2	272.5	0.1	32.5	468.1	1,016.0	161.1	108.6	274.0	
1999	403.3	167.8	117.4	6.9	54.6	284.1	0.3	31.4	494.5	1,065.6	167.8	117.4	285.4	
2000	432.8	208.1	115.9	6.3	59.2	292.0	0.4	28.8	502.7	1,143.6	208.1	115.9	293.5	
2001	424.0	244.4	125.6	6.2	56.2	302.3	1.6	22.1	514.1	1,182.5	244.4	125.6	304.3	
2002	406.5	255.2	116.0	5.8	58.6	317.2	0.2	28.4	526.2	1,187.9	255.2	116.0	318.3	
2003	406.5	275.7	121.7	6.8	60.4	320.2	0.0	28.0	537.1	1,219.3	275.7	121.7	321.3	
2004	425.4	356.3	131.0	5.9	46.8	338.0	0.3	36.5	558.4	1,340.0	356.3	131.0	339.0	
2005	428.4	329.3	150.9	5.3	45.5	336.5	0.1	35.5	573.8	1,331.5	329.3	150.9	350.4	
2006	432.0	365.2	155.7	5.9	43.8	344.7	0.1	32.4	582.6	1,379.8	365.2	155.7	359.4	
2007	438.5	402.0	152.3	5.8	37.5	343.7	0.1	32.0	571.4	1,411.9	402.0	152.3	360.0	
2008	458.7	410.0	150.5	9.5	38.3	316.0	0.0	27.8	542.2	1,410.9	410.0	150.5	335.8	
2009	413.3	377.5	137.3	7.7	26.6	303.1	0.0	23.0	497.7	1,288.4	377.5	138.5	322.8	
2010	457.9	336.2	143.3	8.0	72.4	300.0	0.0	26.1	549.7	1,343.8	336.2	144.1	319.9	
2011	459.9	293.1	148.8	9.0	74.3	294.3	(s)	26.6	553.0	1,306.0	293.1	150.8	314.2	
2012	420.6	339.0	143.5	6.6	72.7	292.0	0.0	23.7	538.5	1,298.1	339.0	145.6	311.4	
2013	454.9	340.4	141.9	7.6	73.5	298.1	0.0	22.3	543.4	1,338.6	340.4	145.8	318.3	
2014	447.8	315.9	139.2	7.9	74.9	298.9	0.0	22.7	543.6	1,307.3	315.9	142.9	320.4	
2015	385.8	365.3	137.8	7.6	75.6	313.0	0.0	23.5	557.4	1,308.5	365.3	141.7	337.1	
2016	323.9	373.9	143.4	8.7	75.3	324.0	0.0	R 24.9	576.2	1,274.0	373.9	148.8	348.7	
2017	334.5	334.6	146.8	8.5	78.7	325.5	0.0	R 23.9	583.3	R 1,252.5	334.6	151.9	350.6	
2018	331.5	400.5	148.0	9.3	76.2	332.2	0.0	R 24.6	R 590.3	R 1,322.3	400.5	152.8	357.6	
2019	257.7	484.2	156.5	10.8	79.1	334.3	0.0	R 26.6	R 607.2	R 1,349.2	484.2	161.3	360.3	
2020	156.8	513.5	156.2	9.9	55.7	297.9	0.0	R 24.8	R 544.5	R 1,214.8	513.5	161.4	321.4	
2021	160.3	485.0	R 168.1	10.5	72.1	326.5	0.0	R 28.6	R 604.5	R 1,249.8	485.0	R 170.5	352.4	
2022	154.0	468.0	170.0	10.9	74.6	325.9	0.0	28.9	609.0	1,231.1	468.0	172.4	351.9	

<sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

<sup>b</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>

**Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Arizona (continued)**  
(trillion Btu)

Year	Nuclear electric power	Renewable energy											Net interstate flow of electricity <sup>k</sup>	Electricity net imports <sup>l</sup>	Total <sup>f</sup>
		Hydro-electric power <sup>e,f</sup>	Biomass						Geo-thermal <sup>f</sup>	Solar <sup>fj</sup>	Wind	Total <sup>f</sup>			
			Wood and waste <sup>f,g</sup>	Fuel ethanol <sup>h</sup>	Biodiesel	Renewable diesel	Losses and co-products <sup>i</sup>	Total <sup>f</sup>							
1960	0.0	R 10.2	4.0	NA	NA	NA	NA	4.0	0.0	NA	NA	R 14.2	R -2.6	-0.1	R 273.4
1965	0.0	R 15.1	3.7	NA	NA	NA	NA	3.7	0.0	NA	NA	R 18.8	R 25.3	-0.1	R 362.9
1970	0.0	R 21.0	4.3	NA	NA	NA	NA	4.3	0.0	NA	NA	R 25.3	R 51.4	-0.2	R 502.9
1971	0.0	R 22.7	4.5	NA	NA	NA	NA	4.5	0.0	NA	NA	R 27.2	R 51.6	-0.2	R 534.6
1972	0.0	R 23.1	4.8	NA	NA	NA	NA	4.8	0.0	NA	NA	R 27.9	R 58.0	-0.5	R 595.5
1973	0.0	R 24.6	4.6	NA	NA	NA	NA	4.6	0.0	NA	NA	R 29.1	R 57.7	-0.3	R 648.6
1974	0.0	R 25.3	4.8	NA	NA	NA	NA	4.8	0.0	NA	NA	R 30.0	R 41.8	-0.1	R 650.8
1975	0.0	R 24.8	5.4	NA	NA	NA	NA	5.4	0.0	NA	NA	R 30.2	R 40.5	(s)	R 634.1
1976	0.0	R 25.9	5.8	NA	NA	NA	NA	5.8	0.0	NA	NA	R 31.7	R 8.7	-0.1	R 667.8
1977	0.0	R 22.5	6.8	NA	NA	NA	NA	6.8	0.0	NA	NA	R 29.3	R -16.7	-0.1	R 720.0
1978	0.0	R 24.0	7.1	NA	NA	NA	NA	7.1	0.0	NA	NA	R 31.1	R -10.3	-0.1	R 724.4
1979	0.0	R 24.8	8.3	NA	NA	NA	NA	8.3	0.0	NA	NA	R 33.0	R -44.0	-0.1	R 761.5
1980	0.0	R 33.6	17.8	NA	NA	NA	NA	17.8	0.0	NA	NA	R 51.4	R -42.2	-0.1	R 729.3
1981	0.0	R 23.2	21.5	(s)	NA	NA	0.0	21.5	0.0	NA	NA	R 44.7	R -78.2	(s)	R 762.6
1982	0.0	R 23.9	21.6	(s)	NA	NA	0.0	21.6	0.0	NA	NA	R 45.6	R -84.7	(s)	R 717.8
1983	0.0	R 49.4	23.6	(s)	NA	NA	0.0	23.6	0.0	NA	0.0	R 73.1	R -51.4	(s)	R 726.6
1984	0.0	R 53.5	25.1	0.0	NA	NA	0.0	25.1	0.0	0.0	0.0	R 78.6	R -69.9	(s)	R 772.4
1985	12.0	R 47.7	25.6	0.0	NA	NA	0.0	25.6	0.0	0.0	0.0	R 73.3	R -67.8	0.0	R 813.9
1986	105.5	R 49.3	24.0	0.0	NA	NA	0.0	24.0	0.0	0.0	0.0	R 73.4	R -92.1	(s)	R 822.4
1987	140.5	R 34.6	17.5	0.0	NA	NA	0.0	17.5	0.0	0.0	0.0	R 52.1	R -100.3	(s)	R 838.5
1988	243.2	R 26.6	18.4	0.0	NA	NA	0.0	18.4	0.0	0.0	0.0	R 44.9	R -191.5	(s)	R 882.0
1989	83.1	R 26.9	15.6	0.0	NA	NA	0.0	15.6	0.2	3.5	0.0	R 46.2	R -74.4	(s)	R 912.1
1990	218.0	R 25.3	13.7	0.0	NA	NA	0.0	13.7	0.2	3.6	0.0	R 42.9	R -169.3	(s)	R 913.0
1991	263.1	R 23.0	14.6	0.0	NA	NA	0.0	14.6	0.2	3.7	0.0	R 41.5	R -211.6	0.4	R 923.4
1992	268.1	R 22.6	15.1	0.0	NA	NA	0.0	15.1	0.2	3.7	0.0	R 41.6	R -224.0	(s)	R 954.6
1993	231.6	R 22.9	13.6	0.3	NA	NA	0.0	13.9	0.2	3.8	0.0	R 40.7	R -191.4	(s)	R 968.2
1994	242.2	R 25.1	13.5	0.7	NA	NA	0.0	14.2	0.2	3.8	0.0	R 43.4	R -195.1	(s)	R 1,020.3
1995	283.5	R 28.3	14.4	2.3	NA	NA	0.0	16.7	0.2	3.8	0.0	R 49.0	R -160.5	1.1	R 1,051.6
1996	302.9	R 31.4	12.8	1.9	NA	NA	0.0	14.7	0.2	3.9	0.0	R 50.2	R -138.5	(s)	R 1,112.7
1997	307.6	R 41.1	14.5	1.9	NA	NA	0.0	16.4	0.2	3.8	0.0	R 61.6	R -181.4	0.4	R 1,125.7
1998	317.9	R 37.4	10.8	1.5	NA	NA	0.0	12.3	0.2	3.7	0.0	R 53.7	R -201.6	(s)	R 1,186.0
1999	317.8	R 33.3	11.2	1.3	NA	NA	0.0	12.5	0.3	3.6	0.0	R 49.6	R -198.0	0.0	R 1,235.0
2000	316.8	R 28.5	11.9	1.5	NA	NA	0.0	13.4	0.3	3.3	0.0	R 45.5	R -216.2	0.2	R 1,289.9
2001	300.0	R 26.0	8.4	2.0	(s)	NA	0.0	10.4	0.3	3.1	0.0	R 39.8	R -220.1	0.2	R 1,302.3
2002	322.3	R 25.3	8.2	1.1	(s)	NA	0.0	9.3	0.3	2.9	0.0	R 37.8	R -249.8	(s)	R 1,298.2
2003	297.9	R 24.1	8.5	1.1	(s)	NA	0.0	9.6	0.2	R 2.7	0.0	R 36.7	R -234.2	-0.1	R 1,319.6
2004	293.2	R 23.8	8.6	1.1	(s)	NA	0.0	9.7	0.3	R 2.6	0.0	R 36.4	R -297.5	0.3	R 1,372.4
2005	269.3	R 21.9	11.4	13.8	0.1	NA	0.0	25.3	0.3	R 2.5	0.0	R 50.0	R -238.8	-0.3	R 1,411.8
2006	250.6	R 23.2	10.4	14.6	0.3	NA	0.0	25.4	0.3	R 2.5	0.0	R 51.4	R -223.2	-0.6	R 1,458.0
2007	280.9	R 22.5	11.1	16.3	0.4	NA	1.6	29.4	0.3	R 2.6	0.0	R 54.9	R -280.6	(s)	R 1,467.2
2008	305.7	R 24.9	13.6	19.7	0.4	NA	3.0	36.7	0.4	R 2.9	0.0	R 64.8	R -346.9	-0.9	R 1,433.6
2009	320.7	R 21.9	6.3	19.7	0.4	NA	3.0	29.5	0.3	R 3.0	R 0.1	R 54.9	R -312.7	-0.8	R 1,350.5
2010	326.1	R 22.6	7.2	19.8	0.3	NA	2.7	30.1	0.3	R 3.4	R 0.5	R 56.9	R -323.2	0.2	R 1,403.9
2011	327.3	R 31.3	6.1	20.0	1.1	0.0	2.6	29.8	0.3	R 4.5	R 0.9	R 66.8	R -272.2	1.5	R 1,429.4
2012	334.6	R 22.9	5.9	19.4	0.1	0.0	1.8	27.2	0.3	R 8.3	R 1.8	R 60.6	R -290.0	0.1	R 1,403.4
2013	328.4	R 20.2	6.4	20.2	0.6	0.0	(s)	27.2	0.3	R 13.3	R 1.5	R 62.5	R -310.5	(s)	R 1,419.1
2014	338.0	R 20.9	7.6	21.6	1.8	0.0	2.4	33.3	0.3	R 17.7	R 1.6	R 73.8	R -296.5	0.2	R 1,422.8
2015	340.2	R 22.3	R 8.6	24.1	0.1	0.0	2.6	R 35.3	0.3	R 19.7	R 1.5	R 79.2	R -288.2	0.1	R 1,439.7
2016	338.6	R 24.5	R 7.9	24.7	2.6	0.0	2.4	R 37.6	0.3	R 21.6	R 1.8	R 85.9	R -236.8	0.4	R 1,462.2
2017	338.2	R 23.3	R 8.0	25.1	2.2	0.0	2.6	R 37.9	0.3	R 26.7	R 1.9	R 90.2	R -218.4	0.2	R 1,462.7
2018	325.1	R 23.8	R 9.7	25.5	2.2	0.0	2.6	R 40.0	0.3	R 28.6	R 1.8	R 94.6	R -267.7	0.1	R 1,474.5
2019	333.3	R 21.2	R 11.3	26.1	2.2	0.0	1.2	R 40.8	0.3	R 30.1	R 1.9	R 94.3	R -283.7	(s)	R 1,493.1
2020	329.6	R 21.9	R 8.6	23.5	2.2	0.0	0.0	R 34.3	0.3	R 33.2	R 2.2	R 92.0	R -201.1	(s)	R 1,435.3
2021	R 329.9	R 20.4	R 8.2	25.9	2.2	0.0	0.0	R 36.3	0.3	R 37.8	R 5.5	R 100.3	R -198.6	(s)	R 1,481.3
2022	333.1	18.1	9.4	26.0	2.2	0.0	0.0	37.6	0.3	41.1	5.3	102.4	-139.7	(s)	1,526.9

<sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.  
<sup>f</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.  
<sup>g</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.  
<sup>h</sup> Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.  
<sup>i</sup> Losses and co-products from the production of biodiesel and fuel ethanol.  
<sup>j</sup> Solar thermal and photovoltaic energy.  
<sup>k</sup> Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.  
<sup>l</sup> Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatt-hours by 3,412 Btu per kilowatt-hour.  
 NA = Not available.  
 Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.  
 Notes: - Totals may not equal sum of components due to independent rounding. - The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.  
 Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.  
 Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>