

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Virginia

Year	Coal Thousand short tons	Natural gas ^a Billion cubic feet	Petroleum							Hydro-electric power ^{g,h} Million kilowatt-hours	Biomass			Solar ^{h,k}	Electricity ^l Million kilowatt-hours	End use ^{h,m}	Electrical system energy losses ⁿ	Total ^{h,m}
			Distillate fuel oil ^b	HGL ^c	Jet fuel ^d	Motor gasoline ^e	Residual fuel oil	Other ^f	Total		Wood and waste ^{h,i}	Losses and co-products ^j	Geo-thermal ^h					
1960	5,879	65	14,140	1,146	4,441	31,077	17,695	9,512	78,012	79	--	--	--	11,561	--	--	--	
1970	4,650	132	23,919	2,412	11,093	48,684	16,288	10,187	112,584	41	--	--	--	29,816	--	--	--	
1980	3,731	156	23,806	3,131	12,279	59,035	10,065	8,113	116,429	27	--	--	--	48,369	--	--	--	
1990	4,877	175	29,259	4,088	15,806	70,333	6,386	9,095	134,966	0	--	--	--	72,696	--	--	--	
2000	3,508	232	38,697	6,097	9,943	85,628	6,522	8,968	155,857	13	--	--	--	96,715	--	--	--	
2005	3,416	233	43,901	5,767	18,845	95,311	4,419	8,871	177,114	13	--	--	--	108,850	--	--	--	
2006	3,094	214	45,476	5,171	18,809	97,076	2,858	8,670	178,060	6	--	--	--	106,721	--	--	--	
2007	3,218	229	43,477	5,231	19,024	99,021	2,977	8,147	177,877	7	--	--	--	111,570	--	--	--	
2008	3,200	222	38,449	5,338	16,520	95,463	3,016	6,306	165,093	9	--	--	--	110,106	--	--	--	
2009	2,552	224	32,489	5,621	15,693	94,263	2,244	6,362	156,672	10	--	--	--	108,462	--	--	--	
2010	2,857	236	32,671	5,673	19,868	96,413	2,313	6,193	163,132	12	--	--	--	113,806	--	--	--	
2011	2,743	231	31,915	5,566	19,300	90,404	2,124	5,953	155,262	11	--	--	--	110,228	--	--	--	
2012	2,524	220	32,340	4,760	18,917	92,643	1,929	5,315	155,904	12	--	--	--	107,795	--	--	--	
2013	2,422	247	32,423	5,842	19,690	92,808	1,210	4,747	156,719	5	--	--	--	110,512	--	--	--	
2014	2,194	261	33,430	5,985	21,912	94,838	815	4,861	161,840	10	--	--	--	112,098	--	--	--	
2015	1,758	257	32,260	6,038	22,948	95,461	583	5,596	162,888	12	--	--	--	112,009	--	--	--	
2016	1,663	249	31,489	5,563	26,009	96,862	810	R 5,460	R 166,193	9	--	--	--	112,281	--	--	--	
2017	1,558	255	31,017	5,413	26,633	97,373	889	R 5,757	R 167,083	(s)	--	--	--	111,530	--	--	--	
2018	1,553	277	34,607	5,959	26,696	97,470	299	R 5,382	R 170,412	(s)	--	--	--	118,166	--	--	--	
2019	1,516	274	36,270	5,839	27,227	96,727	466	R 5,505	R 172,034	(s)	--	--	--	118,435	--	--	--	
2020	1,262	264	R 33,769	5,783	15,605	86,464	425	R 4,916	R 146,963	(s)	--	--	--	117,254	--	--	--	
2021	1,306	284	R 33,894	6,153	17,241	93,937	554	R 5,445	R 157,223	(s)	--	--	--	125,245	--	--	--	
2022	1,206	287	32,469	6,387	21,617	89,757	567	5,723	156,519	(s)	--	--	--	132,265	--	--	--	

Trillion Btu

1960	149.0	66.9	82.4	4.4	24.0	163.2	111.2	56.1	441.4	R 0.3	56.1	NA	NA	NA	39.4	R 753.2	R 79.5	R 832.7
1970	110.7	135.7	139.3	9.1	61.9	255.7	102.4	60.5	628.9	R 0.1	55.5	NA	NA	NA	101.7	R 1,032.6	R 208.4	R 1,241.0
1980	92.8	158.5	138.7	11.6	68.8	310.1	63.3	49.2	641.6	R 0.1	76.3	NA	NA	NA	165.0	R 1,134.2	R 351.1	R 1,485.3
1990	123.8	182.0	170.4	15.1	88.5	369.5	40.1	56.7	740.3	0.0	83.8	0.2	0.1	0.1	248.0	R 1,379.8	R 567.8	R 1,947.5
2000	93.7	240.1	225.2	22.6	56.4	445.4	41.0	55.2	845.7	R (s)	100.4	0.1	0.4	0.1	330.0	R 1,610.1	R 782.4	R 2,392.5
2005	89.9	242.6	255.4	21.6	106.9	494.9	27.8	55.3	961.9	R (s)	97.1	(s)	0.8	0.3	371.4	R 1,763.9	R 852.4	R 2,616.3
2006	81.2	221.4	263.9	19.2	106.6	503.3	18.0	54.0	965.1	R (s)	91.6	(s)	0.9	0.3	364.1	R 1,724.9	R 830.3	R 2,555.2
2007	84.5	237.9	251.5	19.6	107.9	509.2	18.7	50.6	957.5	R (s)	89.9	(s)	1.0	0.4	380.7	R 1,752.0	R 864.1	R 2,616.2
2008	83.8	230.7	222.2	20.2	93.7	487.4	19.0	39.1	881.6	R (s)	89.6	(s)	1.2	R 0.4	375.7	R 1,663.0	R 850.9	R 2,514.0
2009	66.6	232.2	187.7	21.2	89.0	479.8	14.1	39.8	831.6	R (s)	82.9	(s)	1.4	0.5	370.1	R 1,585.1	R 811.7	R 2,396.8
2010	75.0	241.7	188.7	21.8	112.7	488.5	14.5	39.3	865.5	R (s)	77.5	(s)	1.6	0.5	388.3	R 1,650.0	R 848.2	R 2,498.1
2011	72.7	237.2	184.2	21.4	109.4	457.7	13.4	38.1	824.2	R (s)	74.7	(s)	1.8	0.5	376.1	R 1,587.1	R 791.3	R 2,378.4
2012	68.9	228.0	186.5	18.3	107.3	469.0	12.1	34.1	827.3	R (s)	72.7	(s)	1.7	R 0.5	367.8	R 1,566.9	R 752.0	R 2,318.9
2013	66.0	256.0	186.9	22.4	111.6	469.6	7.6	30.1	828.3	(s)	81.5	(s)	1.7	R 0.6	377.1	R 1,611.1	R 778.7	R 2,389.8
2014	60.2	273.5	192.7	23.0	124.2	479.8	5.1	30.7	855.5	R (s)	86.0	2.0	1.7	R 0.6	382.5	R 1,661.8	R 783.7	R 2,445.5
2015	48.9	269.6	185.9	23.2	130.1	482.7	3.7	35.7	861.3	R (s)	84.7	2.3	1.7	R 0.6	382.2	R 1,651.2	R 755.8	R 2,407.1
2016	46.5	261.3	181.3	21.4	147.5	489.6	5.1	34.8	R 879.7	R (s)	78.4	1.3	1.7	R 0.7	383.1	R 1,652.7	R 732.9	R 2,385.6
2017	44.0	269.3	178.6	20.8	151.0	492.0	5.6	R 36.1	R 884.1	(s)	R 81.2	2.8	1.7	R 0.8	380.5	R 1,664.3	R 699.0	R 2,363.3
2018	43.7	293.1	199.3	22.9	151.4	492.6	1.9	R 33.7	R 901.7	(s)	82.5	2.4	1.7	R 0.8	403.2	R 1,729.2	R 725.4	R 2,454.6
2019	42.6	289.3	208.9	22.4	154.4	488.7	2.9	R 34.5	R 911.8	(s)	76.5	0.2	1.7	R 1.0	404.1	R 1,727.2	R 695.5	R 2,422.7
2020	35.6	279.4	194.4	22.2	88.5	436.8	2.7	R 30.7	R 775.3	(s)	R 73.1	0.1	1.7	R 1.3	400.1	R 1,566.5	R 661.3	R 2,227.8
2021	36.8	301.6	R 195.4	23.6	97.8	474.4	3.5	R 34.0	R 828.6	(s)	R 72.3	(s)	1.7	R 1.6	427.3	R 1,670.0	R 705.3	R 2,375.3
2022	33.9	302.8	187.2	24.5	122.6	453.2	3.6	35.8	826.8	(s)	78.1	(s)	1.7	1.9	451.3	1,696.5	733.4	2,429.9

^a Includes supplemental gaseous fuels that are commingled with natural gas.
^b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
^c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
^d 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."
^e Beginning in 1993, includes fuel ethanol blended into motor gasoline.
^f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.
^g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.
^h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
ⁱ Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
^j Losses and co-products from the production of biodiesel and fuel ethanol.
^k Solar thermal and photovoltaic energy.

^l Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
^m Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.
ⁿ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.
 -- = Not applicable. NA = Not available.
 Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.
 Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. 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/>