

Table CT1. Energy consumption estimates for selected energy sources in physical units, selected years, 1960-2022, Virginia

Year			Petroleum							Nuclear electric power	Hydro-electric power ^g	Wind	Fuel ethanol ^h	Biodiesel
	Coal	Natural gas ^a	Distillate fuel oil ^b	HGL ^c	Jet fuel ^d	Motor gasoline ^e	Residual fuel oil	Other ^f	Total					
	Thousand short tons	Billion cubic feet	Thousand barrels											
1960	12,141	66	14,146	1,146	4,441	31,077	17,825	9,512	78,148	0	1,267	0	NA	NA
1965	14,904	96	18,609	1,658	6,504	36,104	16,780	11,465	91,120	0	883	0	NA	NA
1970	11,294	137	24,640	2,412	11,093	48,684	33,373	11,043	131,246	0	691	0	NA	NA
1971	9,479	144	24,376	2,463	11,803	51,673	40,527	11,483	142,325	0	1,123	0	NA	NA
1972	8,223	156	25,075	2,863	11,662	55,089	44,778	11,361	150,829	448	1,408	0	NA	NA
1973	8,151	153	27,103	2,749	12,311	58,429	44,813	9,677	155,082	6,857	1,318	0	NA	NA
1974	7,550	144	25,364	2,672	11,418	57,945	43,895	8,478	149,770	5,953	1,085	0	NA	NA
1975	7,130	121	22,996	3,077	11,602	59,293	40,953	7,458	145,379	8,970	1,311	0	NA	NA
1976	8,317	124	25,101	3,209	11,954	62,422	39,473	9,191	151,350	7,740	888	0	NA	NA
1977	7,734	118	28,183	3,365	12,541	64,412	41,301	9,248	159,051	9,481	714	0	NA	NA
1978	7,000	134	26,309	3,138	12,339	66,616	37,705	9,419	155,525	14,098	1,286	0	NA	NA
1979	8,651	134	33,056	3,624	12,079	62,890	35,306	9,992	156,947	7,056	1,543	0	NA	NA
1980	9,291	158	24,599	3,131	12,279	59,035	24,651	8,113	131,808	11,466	892	0	NA	NA
1981	10,666	152	23,613	2,945	11,255	59,241	13,590	6,668	117,313	17,818	365	0	6	NA
1982	10,419	151	21,913	2,958	11,090	58,355	9,377	6,327	110,020	17,420	940	0	73	NA
1983	10,888	143	24,890	2,975	10,869	59,687	8,128	7,651	114,200	18,674	1,210	0	107	NA
1984	12,168	144	26,483	3,697	10,465	61,916	8,911	10,738	122,210	17,045	1,182	0	295	NA
1985	11,656	139	26,519	3,932	11,038	62,979	8,571	11,269	124,308	22,303	845	0	658	NA
1986	11,857	141	29,676	3,380	13,228	65,184	12,403	10,041	133,912	21,215	75	0	920	NA
1987	13,227	159	31,335	4,126	14,432	69,895	10,845	9,903	140,535	18,145	834	0	756	NA
1988	13,430	164	34,960	4,251	15,700	71,098	10,077	9,697	145,784	21,037	-191	0	686	NA
1989	15,113	174	30,080	4,472	15,768	70,930	11,876	9,948	143,074	14,264	424	0	728	NA
1990	13,960	184	29,812	4,088	15,806	70,333	7,807	9,095	136,940	23,820	1,309	0	381	NA
1991	14,885	181	29,035	4,643	11,824	70,526	9,158	8,118	133,304	23,886	1,080	0	365	NA
1992	14,803	213	28,312	4,727	11,670	71,533	8,016	8,147	132,405	23,334	1,090	0	275	NA
1993	15,504	238	28,713	4,829	11,915	73,827	8,509	8,270	136,063	22,689	1,313	0	51	NA
1994	14,533	252	30,309	4,928	12,003	75,047	7,913	8,268	138,468	25,429	1,146	0	277	NA
1995	15,084	276	30,580	4,783	10,589	78,828	5,482	8,108	138,371	25,135	995	0	1	NA
1996	16,931	260	35,832	5,156	9,204	79,164	4,082	8,569	142,007	26,286	1,429	0	954	NA
1997	17,165	249	37,717	5,216	9,406	81,440	5,202	8,679	147,660	27,084	1,020	0	737	NA
1998	17,320	260	35,855	4,006	10,192	82,197	7,332	9,746	149,328	27,234	1,283	0	920	NA
1999	17,431	277	35,952	4,587	9,314	84,814	7,492	10,151	152,310	28,301	682	0	787	NA
2000	19,606	269	39,664	6,097	9,943	85,628	9,895	8,968	160,196	28,321	712	0	891	NA
2001	19,049	238	39,291	4,825	9,981	90,793	9,099	9,555	163,545	25,759	1,014	0	839	1
2002	18,876	258	37,379	5,345	9,955	91,548	6,734	7,835	158,795	27,346	868	0	1,480	2
2003	18,709	263	43,225	5,686	11,461	93,019	10,664	8,557	172,612	24,816	1,782	0	1,951	2
2004	18,205	277	45,636	5,452	16,754	94,821	11,525	9,124	183,312	28,315	1,583	0	2,056	3
2005	18,335	300	45,306	5,767	18,845	95,311	9,875	8,871	183,975	27,918	1,484	0	1,610	11
2006	17,289	274	45,937	5,171	18,809	97,076	3,709	8,670	179,372	27,594	1,351	0	4,149	30
2007	18,131	320	44,591	5,231	19,024	99,021	5,143	8,147	181,158	27,268	1,248	0	5,415	41
2008	16,569	299	39,205	5,338	16,520	95,463	4,239	6,306	167,071	27,931	1,011	0	6,713	35
2009	13,355	319	33,487	5,621	15,693	94,263	2,990	6,362	158,416	28,212	1,479	0	8,616	37
2010	13,815	375	33,606	5,673	19,868	96,413	3,538	6,193	165,292	26,572	1,500	0	9,541	30
2011	11,542	373	32,383	5,566	19,300	90,404	2,494	5,953	156,099	25,548	1,210	0	8,887	103
2012	9,020	410	32,692	4,760	18,917	92,643	2,176	5,315	156,503	28,723	1,044	0	9,159	92
2013	12,292	419	32,766	5,842	19,690	92,808	1,387	4,747	157,240	29,326	1,254	0	9,279	439
2014	11,706	420	34,951	5,985	21,912	94,838	1,397	4,861	163,943	30,221	955	0	9,411	424
2015	9,719	500	33,263	6,038	22,948	95,461	1,483	5,596	164,791	28,060	1,158	0	9,429	466
2016	9,491	543	32,078	5,563	26,009	96,862	1,198	R 5,460	R 167,170	29,732	1,471	0	9,640	806
2017	6,833	567	31,624	5,413	26,633	97,373	1,098	R 5,757	R 167,899	30,554	1,116	0	9,814	840
2018	6,491	634	35,775	5,959	26,696	97,470	715	R 5,382	R 171,996	29,252	1,765	0	9,899	493
2019	3,489	683	36,533	5,839	27,227	96,727	606	R 5,505	R 172,437	29,498	1,519	0	9,903	402
2020	3,077	713	34,038	5,783	15,605	86,464	524	R 4,916	R 147,332	30,140	2,030	0	8,868	420
2021	2,788	666	R 34,370	6,153	17,241	93,937	609	R 5,445	R 157,754	28,572	1,306	50	9,717	R 337
2022	2,858	635	33,541	6,387	21,617	89,757	601	5,723	157,625	28,197	1,137	51	9,385	267

^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." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes. See technical notes.

^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 Includes 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.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than 0.5.

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, Virginia
(trillion Btu)

Year	Fossil fuels										Fossil fuels (as commingled)		
	Coal	Natural gas excluding supplemental gaseous fuels ^a	Petroleum							Total	Natural gas including supplemental gaseous fuels ^a	Distillate fuel oil including biofuels ^a	Motor gasoline including fuel ethanol ^a
			Distillate fuel oil excluding biofuels ^a	HGL ^b	Jet fuel ^c	Motor gasoline excluding fuel ethanol ^a	Residual fuel oil	Other ^d	Total				
1960	316.4	68.4	82.4	4.4	24.0	163.2	112.1	56.1	442.3	827.1	68.4	82.4	163.2
1965	386.3	98.6	108.4	6.4	35.8	189.7	105.5	67.9	513.6	998.5	98.6	108.4	189.7
1970	275.3	140.1	143.5	9.1	61.9	255.7	209.8	65.6	745.7	1,161.1	140.1	143.5	255.7
1971	230.2	147.8	142.0	9.3	65.9	271.4	254.8	68.6	812.0	1,190.0	147.8	142.0	271.4
1972	198.9	159.7	146.1	10.8	65.1	289.4	281.5	67.9	860.8	1,219.4	159.7	146.1	289.4
1973	195.9	156.7	157.9	10.3	68.9	306.9	281.7	58.5	884.3	1,236.9	156.7	157.9	306.9
1974	177.0	146.8	147.7	10.0	63.8	304.4	276.0	51.5	853.4	1,177.2	146.8	147.7	304.4
1975	169.2	123.6	133.9	11.5	64.9	311.5	257.5	45.1	824.4	1,117.2	123.6	133.9	311.5
1976	202.2	125.9	146.2	12.0	67.0	327.9	248.2	55.4	856.6	1,184.7	125.9	146.2	327.9
1977	187.0	120.7	164.2	12.4	70.3	338.4	259.7	56.0	900.9	1,208.6	120.7	164.2	338.4
1978	170.6	136.9	153.2	11.5	69.1	349.9	237.0	57.5	878.4	1,185.9	136.9	153.2	349.9
1979	213.7	137.0	192.6	13.3	67.6	330.4	222.0	60.5	886.4	1,237.1	137.0	192.6	330.4
1980	231.8	160.9	143.3	11.6	68.8	310.1	155.0	49.2	737.9	1,130.7	160.9	143.3	310.1
1981	264.3	154.9	137.5	10.9	62.9	311.2	85.4	40.4	648.4	1,067.6	154.9	137.5	311.2
1982	259.7	154.6	127.6	10.8	61.9	306.5	59.0	38.2	604.0	1,018.3	155.0	127.6	306.5
1983	275.5	146.8	145.0	11.0	60.8	313.5	51.1	46.5	627.9	1,050.2	147.2	145.0	313.5
1984	306.9	148.5	154.3	13.6	58.4	325.2	56.0	64.6	672.1	1,127.5	148.8	154.3	325.2
1985	297.1	144.5	154.5	14.4	61.7	330.8	53.9	68.1	683.4	1,125.0	144.9	154.5	330.8
1986	303.3	146.6	172.9	12.4	74.1	342.4	78.0	61.7	741.4	1,191.3	146.7	172.9	342.4
1987	337.9	165.1	182.5	15.2	80.9	367.2	68.2	60.9	774.9	1,277.9	165.3	182.5	367.2
1988	342.9	169.6	203.6	15.6	87.9	373.5	63.4	59.0	803.1	1,315.5	170.2	203.6	373.5
1989	384.2	180.4	175.2	16.6	88.3	372.6	74.7	61.0	788.4	1,352.9	180.8	175.2	372.6
1990	355.1	192.0	173.7	15.1	88.5	369.5	49.1	56.7	752.5	1,299.6	192.1	173.7	369.5
1991	379.9	188.5	169.1	17.1	66.7	370.5	57.6	50.3	731.3	1,299.7	188.7	169.1	370.5
1992	379.5	221.0	164.9	17.5	65.9	375.8	50.4	50.4	724.9	1,325.4	221.2	164.9	375.8
1993	397.3	248.4	167.3	17.8	67.3	385.0	53.5	51.1	741.8	1,387.5	249.0	167.3	385.2
1994	371.7	260.4	176.4	18.3	68.0	390.3	49.7	51.3	754.0	1,386.1	261.6	176.4	391.3
1995	385.1	283.9	178.0	17.9	60.0	410.2	34.5	50.2	750.7	1,419.7	284.3	178.0	410.2
1996	428.7	269.8	208.5	19.3	52.2	409.2	25.7	52.6	767.5	1,466.0	270.6	208.5	412.5
1997	432.8	259.6	219.5	19.6	53.3	421.3	32.7	53.2	799.7	1,492.1	259.9	219.5	423.9
1998	438.5	271.4	208.6	15.0	57.8	424.5	46.1	59.6	811.6	1,521.5	271.5	208.6	427.7
1999	444.5	287.1	209.2	17.2	52.8	438.5	47.1	62.7	827.4	1,559.1	287.3	209.2	441.2
2000	507.0	277.7	230.8	22.6	56.4	442.3	62.2	55.2	869.4	1,654.1	278.2	230.8	445.4
2001	487.6	246.4	228.6	18.1	56.6	469.3	57.2	58.8	888.6	1,622.6	246.7	228.6	472.2
2002	482.8	266.9	217.5	19.8	56.4	470.8	42.3	48.2	855.1	1,604.7	267.0	217.5	476.0
2003	464.4	272.1	251.5	21.4	65.0	476.7	67.0	52.7	934.4	1,670.8	272.4	251.5	483.4
2004	452.6	285.6	265.5	20.6	95.0	485.6	72.5	56.6	995.8	1,733.9	285.8	265.5	492.7
2005	458.5	311.5	263.6	21.6	106.9	489.3	62.1	55.3	998.8	1,768.8	311.7	263.6	494.9
2006	433.6	283.5	266.6	19.2	106.6	488.9	23.3	54.0	958.8	1,675.8	283.5	266.6	503.3
2007	458.2	331.0	257.9	19.6	107.9	490.4	32.3	50.6	958.8	1,748.0	331.1	257.9	509.2
2008	415.1	310.6	226.6	20.2	93.7	464.2	26.7	39.1	870.3	1,596.1	310.7	226.6	487.4
2009	334.6	330.4	191.8	21.2	89.0	450.0	18.8	39.8	810.6	1,475.6	330.6	193.5	479.8
2010	346.2	385.8	192.9	21.8	112.7	455.5	22.2	39.3	844.4	1,576.3	385.9	194.1	488.5
2011	288.3	383.4	184.1	21.4	109.4	426.9	15.7	38.1	795.6	1,467.4	383.5	186.9	457.7
2012	222.3	424.0	185.6	18.3	107.3	437.2	13.7	34.1	796.1	1,442.4	424.0	185.6	469.0
2013	290.5	433.4	183.5	22.4	111.6	437.4	8.7	30.1	793.8	1,517.7	433.6	188.8	469.6
2014	278.2	438.7	196.3	23.0	124.2	447.1	8.8	30.7	830.1	1,547.0	439.0	201.4	479.8
2015	232.4	526.3	186.3	23.2	130.1	450.0	9.3	35.7	834.7	1,593.4	526.5	191.7	482.7
2016	222.9	572.1	177.6	21.4	147.5	456.2	7.5	34.8	844.9	R 1,640.0	572.1	184.7	489.6
2017	159.8	596.6	175.5	20.8	151.0	457.9	6.9	R 36.1	R 848.1	R 1,604.6	596.7	182.1	492.0
2018	149.3	667.0	199.5	22.9	151.4	458.1	4.5	R 33.7	R 870.0	R 1,686.4	667.1	206.0	492.6
2019	85.1	717.7	203.8	22.4	154.4	454.2	3.8	R 34.5	R 873.1	R 1,675.9	717.9	210.4	488.7
2020	75.4	748.4	189.1	22.2	88.5	406.0	3.3	R 30.7	R 739.8	R 1,563.7	748.4	195.9	436.8
2021	68.6	699.9	R 195.2	23.6	97.8	440.6	3.8	R 34.0	R 794.0	R 1,562.5	700.0	R 198.1	474.4
2022	67.7	665.9	190.7	24.5	122.6	420.5	3.8	35.8	797.0	1,530.7	666.0	193.4	453.2

^a 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."

^b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

^c 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.

^d 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, Virginia (continued)
(trillion Btu)

Year	Nuclear electric power	Renewable energy											Net interstate flow of electricity ^k	Electricity net imports ^l	Total ^f
		Hydro-electric power ^{e,f}	Biomass						Geo-thermal ^f	Solar ^{f,j}	Wind	Total ^f			
			Wood and waste ^{f,g}	Fuel ethanol ^h	Biodiesel	Renewable diesel	Losses and co-products ⁱ	Total ^f							
1960	0.0	R 4.3	56.1	NA	NA	NA	NA	56.1	0.0	NA	NA	R 60.4	R -54.8	0.0	R 832.7
1965	0.0	R 3.0	54.2	NA	NA	NA	NA	54.2	0.0	NA	NA	R 57.2	R -36.9	0.0	R 1,018.8
1970	0.0	R 2.4	55.5	NA	NA	NA	NA	55.5	0.0	NA	NA	R 57.8	R 22.1	0.0	R 1,241.0
1971	0.0	R 3.8	54.6	NA	NA	NA	NA	54.6	0.0	NA	NA	R 58.4	R 33.2	0.0	R 1,281.6
1972	4.8	R 4.8	55.9	NA	NA	NA	NA	55.9	0.0	NA	NA	R 60.7	R 49.4	0.0	R 1,334.4
1973	74.8	R 4.5	55.5	NA	NA	NA	NA	55.5	0.0	NA	NA	R 60.0	R 21.0	0.0	R 1,392.7
1974	66.4	R 3.7	54.8	NA	NA	NA	NA	54.8	0.0	NA	NA	R 58.5	R 32.8	0.0	R 1,334.9
1975	98.8	R 4.5	53.2	NA	NA	NA	NA	53.2	0.0	NA	NA	R 57.7	R 37.2	0.0	R 1,310.8
1976	85.5	R 3.0	66.8	NA	NA	NA	NA	66.8	0.0	NA	NA	R 69.9	R 57.3	0.0	R 1,397.4
1977	102.1	R 2.4	66.4	NA	NA	NA	NA	66.4	0.0	NA	NA	R 68.8	R 70.5	0.0	R 1,450.0
1978	154.2	R 4.4	73.1	NA	NA	NA	NA	73.1	0.0	NA	NA	R 77.5	R 52.5	0.0	R 1,470.1
1979	76.8	R 5.3	79.2	NA	NA	NA	NA	79.2	0.0	NA	NA	R 84.5	R 125.3	0.0	R 1,523.6
1980	125.1	R 3.0	76.3	NA	NA	NA	NA	76.3	0.0	NA	NA	R 79.3	R 150.2	0.0	R 1,485.3
1981	196.5	R 1.2	75.4	(s)	NA	NA	(s)	75.5	0.0	NA	NA	R 76.7	R 128.8	0.0	R 1,469.6
1982	192.9	R 3.2	83.4	0.3	NA	NA	0.1	83.8	0.0	NA	NA	R 87.0	R 148.3	0.0	R 1,446.5
1983	203.6	R 4.1	82.7	0.4	NA	NA	0.2	83.3	0.0	NA	0.0	R 87.4	R 157.7	0.0	R 1,498.9
1984	184.8	R 4.0	90.0	1.0	NA	NA	0.3	91.3	0.0	0.0	0.0	R 95.3	R 172.6	0.0	R 1,580.3
1985	236.9	R 2.9	90.5	2.3	NA	NA	0.3	93.1	0.0	0.0	0.0	R 96.0	R 161.7	0.0	R 1,619.5
1986	224.4	R 0.3	82.2	3.2	NA	NA	0.3	85.7	0.0	0.0	0.0	R 85.9	R 198.4	0.0	R 1,700.1
1987	189.5	R 2.8	76.4	2.6	NA	NA	0.3	79.4	0.0	0.0	0.0	R 82.2	R 247.8	0.0	R 1,797.3
1988	223.0	R -0.7	79.7	2.4	NA	NA	0.3	82.4	0.0	(s)	0.0	R 81.8	R 257.6	0.0	R 1,877.9
1989	151.0	R 1.4	91.3	2.5	NA	NA	0.3	94.1	0.1	0.1	0.0	R 95.7	R 309.6	0.0	R 1,909.3
1990	252.1	R 4.5	90.4	1.3	NA	NA	0.2	92.0	0.1	0.1	0.0	R 96.7	R 299.2	0.0	R 1,947.5
1991	250.4	R 3.7	94.5	1.3	NA	NA	0.3	96.1	0.2	0.1	0.0	R 100.0	R 303.9	0.0	R 1,954.0
1992	244.3	R 3.7	98.1	1.0	NA	NA	0.2	99.3	0.2	0.1	0.0	R 103.3	R 309.3	0.0	R 1,982.3
1993	238.3	R 4.5	104.8	0.2	NA	NA	0.3	105.2	0.2	0.1	0.0	R 110.1	R 320.6	0.0	R 2,056.5
1994	265.8	R 3.9	109.9	1.0	NA	NA	0.2	111.1	0.2	0.1	0.0	R 115.4	R 313.8	0.0	R 2,081.1
1995	264.1	R 3.4	115.4	(s)	NA	NA	0.2	115.6	0.2	0.1	0.0	R 119.3	R 343.8	0.0	R 2,147.0
1996	276.1	R 4.9	121.0	3.3	NA	NA	0.1	124.4	0.3	0.1	0.0	R 129.7	R 313.4	0.0	R 2,185.2
1997	284.2	R 3.5	112.5	2.6	NA	NA	0.1	115.1	0.3	0.1	0.0	R 119.1	R 290.7	0.0	R 2,186.1
1998	285.7	R 4.4	109.2	3.2	NA	NA	0.1	112.5	0.4	0.1	0.0	R 117.4	R 300.4	0.0	R 2,225.0
1999	295.7	R 2.3	112.5	2.7	NA	NA	0.1	115.3	0.4	0.1	0.0	R 118.2	R 313.5	0.0	R 2,286.5
2000	295.4	R 2.4	106.1	3.1	NA	NA	0.1	109.3	0.4	0.1	0.0	R 112.2	R 330.8	0.0	R 2,392.5
2001	269.0	R 3.5	81.6	2.9	(s)	NA	0.1	84.6	0.4	0.1	0.0	R 88.6	R 341.9	0.0	R 2,322.1
2002	285.5	R 3.0	67.4	5.1	(s)	NA	0.1	72.6	0.5	0.2	0.0	R 76.3	R 379.2	(s)	R 2,345.7
2003	258.6	R 6.1	85.3	6.8	(s)	NA	(s)	92.1	0.6	0.2	0.0	R 99.0	R 385.7	(s)	R 2,414.1
2004	295.3	R 5.4	94.0	7.1	(s)	NA	(s)	101.2	0.7	0.2	0.0	R 107.5	R 404.1	0.0	R 2,540.8
2005	291.4	R 5.1	110.9	5.6	0.1	NA	(s)	116.5	0.8	0.3	0.0	R 122.7	R 433.5	0.0	R 2,616.3
2006	287.9	R 4.6	104.1	14.4	0.2	NA	(s)	118.7	0.9	0.3	0.0	R 124.6	R 466.9	0.0	R 2,555.2
2007	286.0	R 4.3	103.0	18.8	0.2	NA	(s)	122.0	1.0	0.4	0.0	R 127.7	R 454.5	0.0	R 2,616.2
2008	291.9	R 3.4	105.8	23.3	0.2	NA	(s)	129.3	1.2	R 0.4	0.0	R 134.3	R 491.6	0.0	R 2,514.0
2009	295.1	R 5.0	98.6	29.8	0.2	NA	(s)	128.6	1.4	0.5	0.0	R 135.5	R 489.2	0.0	R 2,395.3
2010	277.7	R 5.1	93.8	33.1	0.2	NA	(s)	127.1	1.6	0.5	0.0	R 134.2	R 508.9	0.0	R 2,497.1
2011	267.3	R 4.1	90.6	30.8	0.5	0.0	(s)	122.0	1.8	0.5	0.0	R 128.4	R 513.1	0.0	R 2,376.2
2012	301.0	R 3.6	89.9	31.8	0.5	0.0	(s)	122.1	1.7	R 0.5	0.0	R 127.9	R 445.1	0.0	R 2,316.4
2013	306.4	R 4.3	103.6	32.2	2.4	0.0	(s)	138.2	1.7	R 0.6	0.0	R 144.7	R 417.8	0.0	R 2,386.7
2014	316.1	R 3.3	118.9	32.7	2.3	0.0	2.0	155.9	1.7	R 0.6	0.0	R 161.5	R 418.1	0.0	R 2,442.6
2015	293.5	R 4.0	118.3	32.7	2.5	0.0	2.3	155.8	1.7	R 0.6	0.0	R 162.1	R 355.3	0.0	R 2,404.2
2016	311.0	R 5.0	112.0	33.5	4.3	0.0	1.3	151.0	1.7	R 0.7	0.0	R 158.5	R 273.4	0.0	R 2,382.8
2017	319.6	R 3.8	109.6	34.1	4.5	0.0	2.8	151.0	1.7	R 1.8	0.0	R 158.4	R 278.6	0.1	R 2,361.2
2018	305.8	R 6.0	118.3	34.5	2.6	0.0	2.4	R 157.9	1.7	R 3.4	0.0	R 169.0	R 289.4	0.1	R 2,450.7
2019	308.0	R 5.2	107.7	34.5	2.2	0.0	0.2	144.5	1.7	R 4.2	0.0	R 155.7	R 278.7	0.0	R 2,418.3
2020	314.8	R 6.9	R 101.0	30.8	2.3	0.0	0.1	R 134.2	1.7	R 6.0	0.0	R 148.8	R 196.0	0.0	R 2,223.3
2021	R 298.0	R 4.5	R 105.4	33.8	1.8	0.0	(s)	R 141.0	1.7	R 12.8	R 0.2	R 160.1	R 352.6	0.0	R 2,373.2
2022	294.1	3.9	107.9	32.7	1.4	0.0	(s)	142.1	1.7	17.7	0.2	165.5	437.6	0.0	2,427.8

^e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

^f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^g Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

^h 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.

ⁱ Losses and co-products from the production of biodiesel and fuel ethanol.

^j Solar thermal and photovoltaic energy.

^k 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.

^l 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/>

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		Geo-thermal ^h	Solar ^{h,k}	Electricity ^l	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			Million kilowatt-hours			
			Thousand barrels															
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	5,460	166,193	9	--	--	--	--	112,281	--	--	--
2017	1,558	255	31,017	5,413	26,633	97,373	889	5,757	167,083	(s)	--	--	--	--	111,530	--	--	--
2018	1,553	277	34,607	5,959	26,696	97,470	299	5,382	170,412	(s)	--	--	--	--	118,166	--	--	--
2019	1,516	274	36,270	5,839	27,227	96,727	466	5,505	172,034	(s)	--	--	--	--	118,435	--	--	--
2020	1,262	264	33,769	5,783	15,605	86,464	425	4,916	146,963	(s)	--	--	--	--	117,254	--	--	--
2021	1,306	284	33,894	6,153	17,241	93,937	554	5,445	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	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	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	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/>

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Virginia

Year	Coal ^a	Natural gas ^b	Petroleum				Biomass	Geothermal ^e	Solar ^{e,f}	Electricity ^g	End use ^{e,h}	Electrical system energy losses ⁱ	Total ^{e,h}
			Distillate fuel oil	HGL ^c	Kerosene	Total							
	Thousand short tons	Billion cubic feet	Thousand barrels				Wood ^d			Million kilowatthours			
1960	766	27	6,520	608	4,655	11,783	--	--	--	4,099	--	--	--
1965	454	36	7,471	939	4,847	13,257	--	--	--	6,557	--	--	--
1970	264	50	9,734	1,185	4,544	15,462	--	--	--	11,546	--	--	--
1975	97	49	9,091	1,293	2,056	12,440	--	--	--	15,871	--	--	--
1980	41	55	7,380	1,247	1,403	10,030	--	--	--	19,731	--	--	--
1985	60	49	5,738	1,495	3,611	10,844	--	--	--	22,568	--	--	--
1990	47	51	6,069	1,759	1,160	8,988	--	--	--	28,130	--	--	--
1995	37	69	5,162	2,380	1,220	8,762	--	--	--	33,472	--	--	--
2000	9	80	5,679	2,899	1,642	10,219	--	--	--	37,541	--	--	--
2005	10	85	5,390	3,195	1,426	10,010	--	--	--	44,662	--	--	--
2006	2	72	4,524	2,551	1,139	8,214	--	--	--	42,906	--	--	--
2007	8	81	4,358	2,914	740	8,012	--	--	--	45,481	--	--	--
2008	0	80	3,993	3,098	307	7,398	--	--	--	44,597	--	--	--
2009	0	84	3,030	3,511	286	6,827	--	--	--	44,763	--	--	--
2010	0	88	3,215	3,455	332	7,001	--	--	--	48,439	--	--	--
2011	0	79	2,822	3,289	155	6,266	--	--	--	45,771	--	--	--
2012	0	70	2,095	2,642	71	4,807	--	--	--	43,535	--	--	--
2013	0	86	2,355	3,161	79	5,594	--	--	--	45,416	--	--	--
2014	0	93	2,437	3,054	123	5,614	--	--	--	46,444	--	--	--
2015	0	85	2,249	3,201	85	5,534	--	--	--	45,928	--	--	--
2016	0	77	1,712	2,735	113	4,560	--	--	--	45,186	--	--	--
2017	0	77	1,548	2,565	64	4,177	--	--	--	43,982	--	--	--
2018	0	89	1,967	3,156	68	5,192	--	--	--	47,963	--	--	--
2019	0	82	1,638	3,313	74	5,025	--	--	--	46,666	--	--	--
2020	0	75	1,593	3,434	83	5,110	--	--	--	46,089	--	--	--
2021	0	81	R 2,095	3,056	76	R 5,227	--	--	--	46,634	--	--	--
2022	0	84	2,155	3,007	69	5,231	--	--	--	46,718	--	--	--
Trillion Btu													
1960	19.0	27.9	38.0	2.3	26.4	66.7	30.0	NA	NA	14.0	157.5	R 28.2	R 185.7
1965	11.2	37.4	43.5	3.6	27.5	74.6	22.2	NA	NA	22.4	167.8	R 44.0	R 211.8
1970	6.3	50.8	56.7	4.6	25.8	87.0	17.6	NA	NA	39.4	201.2	R 80.7	R 281.9
1975	2.3	49.7	53.0	5.0	11.7	69.6	18.5	NA	NA	54.2	194.2	R 110.6	R 304.8
1980	1.0	55.6	43.0	4.8	8.0	55.7	20.5	NA	NA	67.3	200.2	R 143.2	R 343.4
1985	1.5	50.7	33.4	5.7	20.5	59.6	25.2	NA	NA	77.0	213.8	R 156.5	R 370.3
1990	1.2	53.6	35.4	6.8	6.6	48.7	10.4	0.1	0.1	96.0	210.1	R 219.7	R 429.8
1995	0.9	70.8	30.0	9.1	6.9	46.1	15.6	0.1	0.1	114.2	247.8	R 267.7	R 515.5
2000	0.2	82.5	33.0	11.1	9.3	53.5	12.1	0.2	0.1	128.1	276.6	R 303.7	R 580.3
2005	0.2	89.0	31.4	12.3	8.1	51.7	15.2	0.3	0.3	152.4	309.1	R 349.7	R 658.8
2006	0.1	74.2	26.3	9.8	6.5	42.5	13.5	0.4	0.3	146.4	277.4	R 333.8	R 611.2
2007	0.2	84.0	25.2	11.2	4.2	40.6	14.9	0.5	0.4	155.2	295.7	R 352.3	R 648.0
2008	0.0	82.7	23.1	11.9	1.7	36.7	16.7	0.6	R 0.4	152.2	R 289.2	R 344.6	R 633.9
2009	0.0	87.4	17.5	13.5	1.6	32.6	16.2	0.7	0.5	152.7	290.0	R 335.0	R 625.0
2010	0.0	90.4	18.6	13.3	1.9	33.7	17.3	0.8	0.5	165.3	R 307.9	R 361.0	R 669.0
2011	0.0	81.4	16.3	12.6	0.9	29.8	16.8	0.8	0.5	156.2	285.4	R 328.6	R 614.0
2012	0.0	72.9	12.1	10.1	0.4	22.6	14.0	0.8	0.5	148.5	R 259.4	R 303.7	R 563.1
2013	0.0	88.9	13.6	12.1	0.4	26.2	18.3	0.8	R 0.5	155.0	R 289.6	R 320.0	R 609.6
2014	0.0	97.4	14.0	11.7	0.7	26.5	18.5	0.8	0.6	158.5	R 302.2	R 324.7	R 626.9
2015	0.0	89.6	13.0	12.3	0.5	25.7	R 14.3	0.8	R 0.6	156.7	R 287.6	R 309.9	R 597.5
2016	0.0	81.1	9.9	10.5	0.6	21.0	R 12.8	0.8	R 0.6	154.2	R 270.4	R 295.0	R 565.4
2017	0.0	81.1	8.9	9.9	0.4	19.1	10.9	0.8	R 0.7	150.1	R 262.8	R 275.7	R 538.4
2018	0.0	94.2	11.3	12.1	0.4	23.8	13.8	0.8	R 0.7	163.6	R 297.0	R 294.4	R 591.4
2019	0.0	86.5	9.4	12.7	0.4	22.6	12.2	0.8	R 0.9	159.2	R 282.2	R 274.1	R 556.3
2020	0.0	79.7	9.2	13.2	0.5	22.8	R 8.4	0.8	R 1.1	157.3	R 270.1	R 259.9	R 530.0
2021	0.0	86.3	12.1	11.7	0.4	R 24.2	R 8.2	0.8	R 1.4	159.1	R 280.0	R 262.6	R 542.7
2022	0.0	89.0	12.4	11.6	0.4	24.4	10.1	0.8	1.6	159.4	285.2	259.1	544.3

^a Beginning in 2008, data are no longer collected and are assumed to be zero.

^b Includes supplemental gaseous fuels that are commingled with natural gas.

^c Hydrocarbon gas liquids, assumed to be propane only.

^d Wood and wood-derived fuels.

^e There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^f Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial sectors.

^g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

^h 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.

ⁱ 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: · 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 CT5. Commercial sector energy consumption estimates, selected years, 1960-2022, Virginia

Year	Coal	Natural gas ^a	Petroleum						Hydro-electric power ^{e,f}	Biomass		Geothermal ^f	Solar ^{f,h}	Electricity ⁱ	End use ^{f,j}	Electrical system energy losses ^k	Total ^{f,j}
			Distillate fuel oil	HGL ^b	Kerosene	Motor gasoline ^c	Residual fuel oil	Total ^d		Wood and waste ^{f,g}							
	Thousand short tons	Billion cubic feet	Thousand barrels						Million kilowatthours				Million kilowatthours				
1960	533	11	1,388	256	93	223	175	2,135	NA	--	--	NA	3,676	--	--	--	
1965	342	15	1,591	395	97	275	211	2,567	NA	--	--	NA	6,192	--	--	--	
1970	207	30	2,072	498	91	210	118	2,989	NA	--	--	NA	10,804	--	--	--	
1975	226	32	1,935	543	41	310	245	3,075	NA	--	--	NA	14,014	--	--	--	
1980	152	38	1,634	524	46	371	443	3,018	NA	--	--	NA	16,969	--	--	--	
1985	211	34	2,747	629	214	456	443	4,489	NA	--	--	NA	21,491	--	--	--	
1990	189	41	2,815	740	139	478	218	4,390	0	--	--	(s)	28,082	--	--	--	
1995	248	57	2,656	1,001	275	132	205	4,269	0	--	--	(s)	33,051	--	--	--	
2000	74	66	3,322	1,219	276	122	431	5,369	0	--	--	(s)	38,459	--	--	--	
2005	111	66	2,980	1,261	203	115	83	4,642	0	--	--	(s)	44,670	--	--	--	
2006	24	62	2,692	1,093	168	100	37	4,090	0	--	--	(s)	44,654	--	--	--	
2007	75	66	2,088	1,173	162	116	18	3,557	0	--	--	(s)	46,971	--	--	--	
2008	75	67	1,549	1,445	25	104	20	3,143	0	--	--	(s)	46,878	--	--	--	
2009	90	68	1,333	1,358	28	98	22	2,839	0	--	--	(s)	46,828	--	--	--	
2010	84	69	1,475	1,513	38	80	29	3,135	0	--	--	1	48,037	--	--	--	
2011	90	64	1,153	1,568	26	106	12	2,864	0	--	--	2	47,051	--	--	--	
2012	49	60	1,709	1,414	11	96	6	3,235	0	--	--	7	46,757	--	--	--	
2013	51	68	1,377	1,836	13	93	4	3,322	0	--	--	8	47,751	--	--	--	
2014	66	72	1,598	1,981	21	100	4	3,704	0	--	--	11	47,752	--	--	--	
2015	50	69	1,601	1,817	13	2,234	0	5,665	0	--	--	13	48,347	--	--	--	
2016	34	68	1,494	1,898	25	2,263	(s)	5,680	0	--	--	16	49,264	--	--	--	
2017	37	68	1,563	1,970	10	2,266	0	5,808	0	--	--	24	50,201	--	--	--	
2018	27	74	1,821	1,948	12	2,303	1	6,084	0	--	--	23	52,268	--	--	--	
2019	22	71	1,879	1,829	13	2,317	0	6,039	0	--	--	38	53,981	--	--	--	
2020	10	68	1,498	1,711	15	2,333	(s)	5,557	0	--	--	65	53,527	--	--	--	
2021	8	71	R 1,484	2,041	14	2,352	(s)	5,890	0	--	--	83	58,724	--	--	--	
2022	9	74	1,507	2,038	13	2,438	(s)	5,996	0	--	--	86	68,556	--	--	--	

Trillion Btu																	
1960	13.2	11.7	8.1	1.0	0.5	1.2	1.1	11.9	NA	0.6	NA	NA	12.5	49.9	R 25.3	R 75.2	
1965	8.4	15.3	9.3	1.5	0.5	1.4	1.3	14.1	NA	0.4	NA	NA	21.1	59.3	R 41.6	R 100.9	
1970	4.9	30.9	12.1	1.9	0.5	1.1	0.7	16.3	NA	0.3	NA	NA	36.9	89.3	R 75.5	R 164.9	
1975	5.3	33.0	11.3	2.1	0.2	1.6	1.5	16.8	NA	0.4	NA	NA	47.8	103.2	R 97.6	R 200.8	
1980	3.7	39.0	9.5	2.0	0.3	1.9	2.8	16.5	NA	0.5	NA	NA	57.9	117.7	R 123.2	R 240.8	
1985	5.3	35.3	16.0	2.4	1.2	2.4	2.8	24.8	NA	0.6	NA	NA	73.3	139.2	R 149.0	R 288.2	
1990	4.7	42.8	16.4	2.8	0.8	2.5	1.4	23.9	0.0	7.3	(s)	(s)	95.8	174.6	R 219.3	R 393.9	
1995	6.2	58.7	15.5	3.8	1.6	0.7	1.3	22.8	0.0	5.4	0.1	(s)	112.8	206.0	R 264.3	R 470.3	
2000	1.9	68.4	19.3	4.7	1.6	0.6	2.7	28.9	0.0	10.1	0.2	(s)	131.2	240.6	R 311.1	R 551.7	
2005	2.8	68.6	17.3	4.8	1.2	0.6	0.5	24.4	0.0	8.5	0.5	(s)	152.4	257.2	R 349.8	R 607.0	
2006	0.6	64.6	15.6	4.2	1.0	0.5	0.2	21.5	0.0	8.2	0.5	(s)	152.4	247.7	R 347.4	R 595.1	
2007	1.9	68.9	12.1	4.5	0.9	0.6	0.1	18.2	0.0	7.6	0.6	(s)	160.3	257.4	R 363.8	R 621.2	
2008	2.0	69.5	9.0	5.5	0.1	0.5	0.1	15.3	0.0	7.5	0.7	(s)	159.9	254.9	R 362.3	R 617.1	
2009	2.3	70.1	7.7	5.2	0.2	0.5	0.1	13.7	0.0	6.9	0.6	(s)	159.8	253.5	R 350.4	R 603.9	
2010	2.2	70.7	8.5	5.8	0.2	0.4	0.2	15.1	0.0	7.1	0.8	(s)	163.9	259.8	R 358.0	R 617.8	
2011	2.4	66.0	6.7	6.0	0.1	0.5	0.1	13.4	0.0	6.6	1.0	(s)	160.5	249.9	R 337.8	R 587.7	
2012	1.3	62.3	9.9	5.4	0.1	0.5	(s)	15.9	0.0	6.9	0.9	R (s)	159.5	R 246.8	R 326.2	R 573.0	
2013	1.3	70.6	7.9	7.1	0.1	0.5	(s)	15.6	0.0	7.4	0.9	R (s)	162.9	258.8	R 336.5	R 595.2	
2014	1.8	75.7	9.2	7.6	0.1	0.5	(s)	17.5	0.0	7.4	0.9	R (s)	162.9	R 266.2	R 333.8	R 600.0	
2015	1.3	72.4	9.2	7.0	0.1	11.3	0.0	27.6	0.0	7.2	0.9	R (s)	165.0	274.4	R 326.2	R 600.6	
2016	0.9	71.0	8.6	7.3	0.1	11.4	(s)	27.5	0.0	7.4	0.9	0.1	168.1	R 275.7	R 321.6	R 597.3	
2017	0.9	71.9	9.0	7.6	0.1	11.4	0.0	28.1	0.0	7.2	0.9	R 0.1	171.3	R 280.4	R 314.6	R 595.0	
2018	0.7	78.6	10.5	7.5	0.1	11.6	(s)	29.7	0.0	6.8	0.9	R 0.1	178.3	R 295.0	R 320.9	R 615.9	
2019	0.6	75.3	10.8	7.0	0.1	11.7	0.0	29.6	0.0	R 5.9	0.9	R 0.1	184.2	R 296.6	R 317.0	R 613.6	
2020	0.3	71.5	8.6	6.6	0.1	11.8	(s)	27.1	0.0	6.2	0.9	R 0.2	182.6	R 288.8	R 301.9	R 590.6	
2021	0.2	75.7	8.6	7.8	0.1	11.9	(s)	R 28.3	0.0	5.9	0.9	R 0.3	200.4	R 311.8	R 330.7	R 642.5	
2022	0.2	78.6	8.7	7.8	0.1	12.3	(s)	28.9	0.0	11.1	0.9	0.3	233.9	353.9	380.2	734.1	

^a Includes supplemental gaseous fuels that are commingled with natural gas.

^b Hydrocarbon gas liquids, assumed to be propane only.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

^d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

^f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^g Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

^h Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.

ⁱ Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

^j 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 commercial utility-scale facilities.

^k 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: · Totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. · 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 CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Virginia

Year	Coal Thousand short tons	Natural gas ^a Billion cubic feet	Petroleum						Hydro-electric power ^{e,f} Million kWh	Biomass		Geo-thermal ^f	Solar ^{f,i}	Electricity ^j Million kWh	End use ^{f,k}	Electrical system energy losses ^l	Total ^{f,k}
			Distillate fuel oil	HGL ^b	Motor gasoline ^c	Residual fuel oil	Other ^d	Total		Wood and waste ^{f,g}	Losses and co-products ^h						
													Thousand barrels				
1960	4,503	22	2,133	275	882	5,739	3,931	12,961	79	--	--	--	NA	3,786	--	--	--
1965	5,824	36	2,977	301	838	6,754	5,372	16,241	87	--	--	--	NA	5,834	--	--	--
1970	4,172	45	4,415	682	653	4,170	4,767	14,687	41	--	--	--	NA	7,467	--	--	--
1975	2,816	37	3,128	1,184	460	7,611	4,682	17,064	38	--	--	--	NA	9,437	--	--	--
1980	3,538	55	3,573	1,312	278	5,203	5,917	16,282	27	--	--	--	NA	11,637	--	--	--
1985	4,219	51	3,389	1,707	686	3,408	6,831	16,021	27	--	--	--	NA	13,561	--	--	--
1990	4,641	75	3,625	1,526	705	2,853	7,184	15,893	0	--	--	--	(s)	16,399	--	--	--
1995	3,551	99	3,661	1,338	718	1,777	6,010	13,504	14	--	--	--	(s)	18,554	--	--	--
2000	3,425	78	4,857	1,945	569	1,867	6,401	15,639	13	--	--	--	(s)	20,619	--	--	--
2005	3,295	76	7,105	1,244	1,639	2,406	6,553	18,947	13	--	--	--	(s)	19,354	--	--	--
2006	3,068	74	6,872	1,455	1,732	1,126	6,847	18,032	6	--	--	--	(s)	18,998	--	--	--
2007	3,135	75	7,114	1,081	1,631	1,081	6,580	17,487	7	--	--	--	(s)	18,925	--	--	--
2008	3,125	67	6,807	667	817	2,005	5,358	15,654	9	--	--	--	(s)	18,438	--	--	--
2009	2,463	63	3,108	669	809	1,625	5,443	11,654	10	--	--	--	(s)	16,678	--	--	--
2010	2,773	68	2,419	676	971	1,476	5,044	10,585	12	--	--	--	(s)	17,141	--	--	--
2011	2,653	73	2,513	680	951	1,022	5,052	10,217	11	--	--	--	(s)	17,218	--	--	--
2012	2,475	80	2,822	672	959	855	4,548	9,856	12	--	--	--	(s)	17,316	--	--	--
2013	2,371	84	2,950	808	1,001	553	3,960	9,273	5	--	--	--	(s)	17,150	--	--	--
2014	2,128	88	3,097	922	960	274	3,973	9,226	10	--	--	--	(s)	17,701	--	--	--
2015	1,708	95	2,664	987	745	326	4,747	9,469	12	--	--	--	(s)	17,537	--	--	--
2016	1,629	95	2,825	889	739	349	R 4,598	R 9,401	9	--	--	--	(s)	17,648	--	--	--
2017	1,522	101	2,605	838	748	105	R 5,014	R 9,311	(s)	--	--	--	1	17,169	--	--	--
2018	1,526	103	2,538	810	761	40	R 4,632	R 8,781	(s)	--	--	--	2	17,737	--	--	--
2019	1,494	107	2,714	654	758	253	R 4,751	R 9,131	(s)	--	--	--	2	17,598	--	--	--
2020	1,253	110	2,161	612	763	57	R 4,226	R 7,819	(s)	--	--	--	3	17,474	--	--	--
2021	1,298	118	2,644	1,024	759	135	R 4,542	R 9,103	(s)	--	--	--	3	19,712	--	--	--
2022	1,197	113	2,672	1,289	784	138	4,860	9,743	(s)	--	--	--	5	16,861	--	--	--
Trillion Btu																	
1960	114.9	23.3	12.4	1.0	4.6	36.1	24.5	78.7	R 0.3	25.5	NA	NA	NA	12.9	R 255.6	R 26.0	R 281.6
1965	147.4	36.6	17.3	1.1	4.4	42.5	33.6	98.9	R 0.3	31.6	NA	NA	NA	19.9	R 334.8	R 39.2	R 373.9
1970	99.3	46.0	25.7	2.5	3.4	26.2	29.8	87.6	R 0.1	37.5	NA	NA	NA	25.5	R 296.0	R 52.2	R 348.2
1975	66.1	37.3	18.2	4.2	2.4	47.9	29.3	102.0	R 0.1	34.4	NA	NA	NA	32.2	R 272.1	R 65.7	R 337.9
1980	88.1	55.4	20.8	4.6	1.5	32.7	36.7	96.3	R 0.1	55.3	NA	NA	NA	39.7	R 334.8	R 84.5	R 419.3
1985	106.7	52.8	19.7	5.8	3.6	21.4	42.9	93.5	R 0.1	64.8	0.3	NA	NA	46.3	R 364.2	R 94.0	R 458.3
1990	117.9	78.4	21.1	5.3	3.7	17.9	45.7	93.7	0.0	66.1	0.2	0.0	(s)	56.0	R 412.2	R 128.1	R 540.3
1995	90.7	101.8	21.3	4.6	3.7	11.2	38.1	79.0	R (s)	81.4	0.2	0.0	(s)	63.3	R 416.3	R 148.4	R 564.7
2000	91.5	80.8	28.3	6.7	3.0	11.7	40.5	90.1	R (s)	78.2	0.1	0.0	(s)	70.4	R 410.9	R 166.8	R 577.7
2005	86.9	79.7	41.3	4.3	8.5	15.1	42.1	111.4	R (s)	73.4	(s)	0.0	(s)	66.0	R 417.5	R 151.6	R 569.0
2006	80.6	76.9	39.9	5.0	9.0	7.1	43.5	104.5	R (s)	69.9	(s)	0.0	(s)	64.8	R 396.7	R 147.8	R 544.5
2007	82.5	77.7	41.1	3.7	5.6	10.3	41.7	102.3	R (s)	67.4	(s)	0.0	(s)	64.6	R 394.4	R 146.6	R 541.0
2008	81.8	69.6	39.3	2.2	4.2	12.6	33.6	92.0	R (s)	65.3	(s)	0.0	(s)	62.9	R 371.6	R 142.5	R 514.1
2009	64.3	65.4	18.0	2.2	4.1	10.2	34.5	69.1	R (s)	59.8	(s)	0.0	(s)	56.9	R 315.5	R 124.8	R 440.3
2010	72.7	70.1	14.0	2.6	4.9	9.3	32.6	63.3	R (s)	53.1	(s)	0.0	(s)	58.5	R 317.8	R 127.7	R 445.5
2011	70.3	75.3	14.5	2.6	4.8	6.4	32.8	61.2	R (s)	51.3	(s)	0.0	(s)	58.7	R 316.8	R 123.6	R 440.4
2012	67.6	82.7	16.3	2.6	4.9	5.4	29.6	58.7	R (s)	51.7	(s)	0.0	(s)	59.1	R 319.9	R 120.8	R 440.7
2013	64.6	87.5	17.0	3.1	5.1	3.5	25.4	54.1	(s)	55.8	(s)	0.0	(s)	58.5	R 320.6	R 120.8	R 441.4
2014	58.4	92.3	17.8	3.5	4.9	1.7	25.5	53.5	R (s)	60.0	2.0	0.0	(s)	60.4	R 326.6	R 123.7	R 450.3
2015	47.5	99.0	15.4	3.8	3.8	2.0	30.7	55.6	R (s)	63.3	2.3	0.0	(s)	59.8	R 327.6	R 118.3	R 445.9
2016	45.7	100.1	16.3	3.4	3.7	2.2	29.7	55.3	R (s)	58.2	1.3	0.0	(s)	60.2	R 320.8	R 115.2	R 436.0
2017	43.0	106.2	15.0	3.2	3.8	0.7	R 31.7	R 54.3	(s)	63.1	2.8	0.0	(s)	58.6	R 328.0	R 107.6	R 435.6
2018	43.0	109.2	14.6	3.1	3.8	0.3	R 29.2	R 51.0	(s)	62.0	2.4	0.0	(s)	60.5	R 328.2	R 108.9	R 437.1
2019	42.1	112.8	15.6	2.5	3.8	1.6	R 30.0	R 53.6	(s)	58.4	0.2	0.0	(s)	60.0	R 327.1	R 103.4	R 430.5
2020	35.3	116.6	12.4	2.4	3.9	0.4	R 26.7	R 45.7	(s)	58.5	0.1	0.0	(s)	59.6	R 315.8	R 98.6	R 414.3
2021	36.5	125.1	15.2	3.9	3.8	0.8	R 28.8	R 52.7	(s)	58.1	(s)	0.0	(s)	67.3	R 339.6	R 111.0	R 450.6
2022	33.7	119.8	15.4	5.0	4.0	0.9	30.8	56.0	(s)	56.9	(s)	0.0	(s)	57.5	323.9	93.5	417.4

^a Includes supplemental gaseous fuels that are commingled with natural gas.

^b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

^d Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

^e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

^f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^g Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

^h Losses and co-products from the production of biodiesel and fuel ethanol.

ⁱ Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.

^j Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

^k 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 industrial utility-scale facilities.

^l 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.

kWh = Kilowatthours. -- = 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: · Totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. · The continuity of these data series estimates may be affected by the 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 CT7. Transportation sector energy consumption estimates, selected years, 1960-2022, Virginia

Year	Coal	Natural gas ^a	Petroleum							Electricity ^f	End use ^{g,h}	Electrical system energy losses ⁱ	Total ^{g,h}
			Aviation gasoline	Distillate fuel oil ^b	HGL ^c	Jet fuel ^d	Lubricants	Motor gasoline ^e	Residual fuel oil	Total			
	Thousand short tons	Billion cubic feet	Thousand barrels							Million kilowatthours			
1960	77	4	382	4,099	7	4,441	451	29,972	11,780	51,134	0	--	--
1965	19	7	721	6,564	24	6,504	428	34,992	9,645	58,877	0	--	--
1970	7	8	356	7,698	47	11,093	430	47,821	12,000	79,446	0	--	--
1975	(s)	3	251	8,217	57	11,602	427	58,524	6,356	85,436	0	--	--
1980	0	8	218	11,219	47	12,279	530	58,386	4,419	87,098	32	--	--
1985	0	4	131	14,305	102	11,038	482	61,837	3,419	91,313	60	--	--
1990	0	7	70	16,749	63	15,806	542	69,150	3,316	105,696	86	--	--
1995	0	6	85	18,418	64	10,589	518	77,978	1,923	109,575	86	--	--
2000	0	8	97	24,840	35	9,943	553	84,937	4,225	124,630	96	--	--
2005	0	5	223	28,426	67	18,845	466	93,557	1,930	143,515	163	--	--
2006	0	6	61	31,389	72	18,809	454	95,243	1,695	147,724	163	--	--
2007	0	7	197	29,916	63	19,024	469	97,824	1,327	148,820	193	--	--
2008	0	9	180	26,100	129	16,520	436	94,542	991	138,898	194	--	--
2009	0	9	214	25,018	83	15,693	392	93,355	598	135,353	193	--	--
2010	0	10	93	25,563	30	19,868	686	95,362	809	142,411	189	--	--
2011	0	14	88	25,427	30	19,300	632	89,347	1,091	135,914	188	--	--
2012	0	10	83	25,714	32	18,917	603	91,588	1,069	138,005	188	--	--
2013	0	9	73	25,741	37	19,690	623	91,714	653	138,530	195	--	--
2014	0	8	97	26,299	27	21,912	647	93,779	537	143,296	202	--	--
2015	0	8	64	25,746	33	22,948	688	92,483	257	142,219	196	--	--
2016	0	9	71	25,459	41	26,009	R 653	93,860	461	R 146,552	183	--	--
2017	0	10	69	25,301	39	26,633	R 600	94,359	785	R 147,786	178	--	--
2018	0	11	81	28,280	46	26,696	R 589	94,406	258	R 150,356	199	--	--
2019	0	14	86	30,039	42	27,227	R 581	93,652	213	R 151,840	190	--	--
2020	0	11	69	28,517	27	15,605	R 523	83,368	368	R 128,477	164	--	--
2021	0	14	78	R 27,671	33	17,241	R 541	90,826	419	R 137,002	175	--	--
2022	0	15	81	26,135	52	21,617	542	86,535	429	135,549	130	--	--

Trillion Btu													
1960	2.0	4.1	1.9	23.9	(s)	24.0	2.7	157.4	74.1	284.1	0.0	290.2	0.0
1965	0.5	7.0	3.6	38.2	0.1	35.8	2.6	183.8	60.6	324.8	0.0	332.2	0.0
1970	0.2	8.0	1.8	44.8	0.2	61.9	2.6	251.2	75.4	438.0	0.0	446.1	0.0
1975	(s)	3.1	1.3	47.9	0.2	64.9	2.6	307.4	40.0	464.3	0.0	467.4	0.0
1980	0.0	8.4	1.1	65.3	0.2	68.8	3.2	306.7	27.8	473.1	0.1	481.6	R 0.2
1985	0.0	4.6	0.7	83.3	0.4	61.7	2.9	324.8	21.5	495.3	0.2	502.3	R 0.4
1990	0.0	7.2	0.4	97.6	0.2	88.5	3.3	363.2	20.8	574.1	0.3	582.9	0.7
1995	0.0	6.6	0.4	107.2	0.2	60.0	3.1	405.8	12.1	588.9	0.3	595.8	0.7
2000	0.0	8.5	0.5	144.5	0.1	56.4	3.4	441.8	26.6	673.2	0.3	682.0	0.8
2005	0.0	5.3	1.1	165.4	0.3	106.9	2.8	485.7	12.1	774.3	0.6	780.3	1.3
2006	0.0	5.8	0.3	182.1	0.3	106.6	2.8	493.8	10.7	796.6	0.6	803.1	1.3
2007	0.0	7.3	1.0	173.0	0.2	107.9	2.8	503.0	8.3	796.3	0.7	804.5	1.5
2008	0.0	8.9	0.9	150.9	0.5	93.7	2.6	482.7	6.2	737.5	0.7	747.3	R 1.5
2009	0.0	9.3	1.1	144.5	0.3	89.0	2.4	475.2	3.8	716.2	0.7	726.2	R 1.4
2010	0.0	10.5	0.5	147.6	0.1	112.7	4.2	483.2	5.1	753.3	0.6	764.4	R 1.4
2011	0.0	14.6	0.4	146.7	0.1	109.4	3.8	452.4	6.9	719.8	0.6	735.0	R 1.3
2012	0.0	10.0	0.4	148.3	0.1	107.3	3.7	463.6	6.7	730.1	0.6	740.8	R 1.3
2013	0.0	9.0	0.4	148.3	0.1	111.6	3.8	464.1	4.1	732.4	0.7	742.1	1.4
2014	0.0	8.0	0.5	151.6	0.1	124.2	3.9	474.4	3.4	758.1	0.7	766.8	R 1.4
2015	0.0	8.6	0.3	148.3	0.1	130.1	4.2	467.7	1.6	752.4	0.7	761.7	R 1.3
2016	0.0	9.2	0.4	146.6	0.2	147.5	R 4.0	474.5	2.9	775.9	0.6	785.7	1.2
2017	0.0	10.1	0.3	145.7	0.1	151.0	3.6	476.8	4.9	782.5	0.6	793.2	R 1.1
2018	0.0	11.2	0.4	162.9	0.2	151.4	3.6	477.1	1.6	797.1	0.7	809.0	R 1.2
2019	0.0	14.7	0.4	173.0	0.2	154.4	3.5	473.1	1.3	R 806.0	0.6	821.3	R 1.1
2020	0.0	11.6	0.3	164.1	0.1	88.5	3.2	421.2	2.3	679.7	0.6	R 691.9	R 0.9
2021	0.0	14.6	0.4	R 159.5	0.1	97.8	R 3.3	458.7	2.6	R 723.4	0.6	R 738.5	R 1.0
2022	0.0	15.4	0.4	150.7	0.2	122.6	3.3	436.9	2.7	717.6	0.4	733.5	0.7

^a Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
^b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.
^c Hydrocarbon gas liquids, assumed to be propane only.
^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 "Industrial sector, Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.
^e Beginning in 1993, includes fuel ethanol blended into motor gasoline.
^f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.
^g There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

^h For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
ⁱ 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.
 Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.
 Notes: - Totals may not equal sum of components due to independent rounding. - The continuity of these data series estimates may be affected by the 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 CT8. Electric power sector consumption estimates, selected years, 1960-2022, Virginia

Year	Coal	Natural gas ^a	Petroleum				Nuclear electric power	Hydroelectric power ^d	Biomass	Geothermal ^f	Solar ^{f,g}	Wind ^f	Electricity net imports ^h	Total ^{f,i}
			Distillate fuel oil ^b	Petroleum coke	Residual fuel oil ^c	Total			Wood and waste ^{e,f}					
	Thousand short tons	Billion cubic feet	Thousand barrels				Million kilowatthours		Million kilowatthours					
1960	6,262	1	6	0	130	136	0	1,189	--	0	NA	NA	0	--
1965	8,265	2	7	0	170	178	0	797	--	0	NA	NA	0	--
1970	6,644	4	721	856	17,085	18,662	0	650	--	0	NA	NA	0	--
1975	3,991	(s)	624	0	26,741	27,364	8,970	1,273	--	0	NA	NA	0	--
1980	5,560	2	793	0	14,586	15,379	11,466	864	--	0	NA	NA	0	--
1985	7,166	2	340	0	1,301	1,641	22,303	818	--	0	0	0	0	--
1990	9,083	10	553	0	1,421	1,973	23,820	1,309	--	0	(s)	0	0	--
1995	11,248	45	683	0	1,577	2,260	25,135	981	--	0	(s)	0	0	--
2000	16,098	37	966	0	3,373	4,339	28,321	699	--	0	0	0	0	--
2005	14,920	67	1,405	0	5,456	6,862	27,918	1,471	--	0	0	0	0	--
2006	14,194	60	460	0	851	1,312	27,594	1,345	--	0	0	0	0	--
2007	14,913	91	1,115	0	2,166	3,281	27,268	1,242	--	0	0	0	0	--
2008	13,368	77	755	0	1,223	1,978	27,931	1,002	--	0	0	0	0	--
2009	10,803	95	998	0	746	1,744	28,212	1,468	--	0	0	0	0	--
2010	10,958	140	935	0	1,225	2,160	26,572	1,488	--	0	0	0	0	--
2011	8,799	142	468	0	369	837	25,548	1,199	--	0	0	0	0	--
2012	6,497	190	353	0	247	600	28,723	1,032	--	0	0	0	0	--
2013	9,869	172	344	0	177	521	29,326	1,248	--	0	0	0	0	--
2014	9,513	159	1,521	0	582	2,103	30,221	945	--	0	0	0	0	--
2015	7,961	243	1,003	0	900	1,902	28,060	1,146	--	0	0	0	0	--
2016	7,828	295	588	0	388	976	29,732	1,463	--	0	21	0	0	--
2017	5,275	311	607	0	209	816	30,554	1,116	--	0	313	0	28	--
2018	4,939	357	1,168	0	415	1,584	29,252	1,765	--	0	763	0	30	--
2019	1,973	409	263	0	140	403	29,498	1,519	--	0	947	0	0	--
2020	1,814	450	269	0	100	369	30,140	2,030	--	0	1,369	0	0	--
2021	1,482	382	475	0	55	531	28,572	1,305	--	0	3,266	50	0	--
2022	1,652	348	1,073	0	33	1,106	28,197	1,137	--	0	4,624	51	0	--

Trillion Btu

1960	167.4	1.5	(s)	0.0	0.8	0.9	0.0	R 4.1	0.0	0.0	NA	NA	0.0	R 173.8
1965	218.8	2.3	(s)	0.0	1.1	1.1	0.0	R 2.7	0.0	0.0	NA	NA	0.0	R 225.0
1970	164.6	4.4	4.2	5.2	107.4	116.8	0.0	R 2.2	0.0	0.0	NA	NA	0.0	R 288.0
1975	95.5	0.5	3.6	0.0	168.1	171.8	98.8	R 4.3	0.0	0.0	NA	NA	0.0	R 370.9
1980	139.1	2.5	4.6	0.0	91.7	96.3	125.1	R 2.9	0.0	0.0	NA	NA	0.0	R 365.9
1985	183.6	1.6	2.0	0.0	8.2	10.2	236.9	R 2.8	0.0	0.0	0.0	0.0	0.0	R 435.1
1990	231.3	10.1	3.2	0.0	8.9	12.2	252.1	R 4.5	6.6	0.0	(s)	0.0	0.0	R 516.6
1995	287.3	46.4	4.0	0.0	9.9	13.9	264.1	R 3.3	12.9	0.0	(s)	0.0	0.0	R 627.9
2000	413.3	38.1	5.6	0.0	21.2	26.8	295.4	R 2.4	5.7	0.0	0.0	0.0	0.0	R 781.6
2005	368.6	69.1	8.2	0.0	34.3	42.5	291.4	R 5.0	13.8	0.0	0.0	0.0	0.0	R 790.2
2006	352.4	62.1	2.7	0.0	5.4	8.0	287.9	R 4.6	12.5	0.0	0.0	0.0	0.0	R 727.5
2007	373.7	93.3	6.4	0.0	13.6	20.1	286.0	R 4.2	13.1	0.0	0.0	0.0	0.0	R 790.4
2008	331.3	80.1	4.4	0.0	7.7	12.1	291.9	R 3.4	16.2	0.0	0.0	0.0	0.0	R 735.0
2009	268.0	98.4	5.8	0.0	4.7	10.5	295.1	R 5.0	15.7	0.0	0.0	0.0	0.0	R 692.5
2010	271.2	144.3	5.4	0.0	7.7	13.1	277.7	R 5.1	16.3	0.0	0.0	0.0	0.0	R 727.6
2011	215.6	146.3	2.7	0.0	2.3	5.0	267.3	R 4.1	15.9	0.0	0.0	0.0	0.0	R 654.3
2012	153.4	196.1	2.0	0.0	1.6	3.6	301.0	R 3.5	17.2	0.0	0.0	0.0	0.0	R 674.7
2013	224.5	177.6	2.0	0.0	1.1	3.1	306.4	R 4.3	22.1	0.0	0.0	0.0	0.0	R 737.9
2014	218.0	165.5	8.8	0.0	3.7	12.4	316.1	R 3.2	33.0	0.0	0.0	0.0	0.0	R 748.1
2015	183.6	256.9	5.8	0.0	5.7	11.4	293.5	R 3.9	33.6	0.0	0.0	0.0	0.0	R 782.7
2016	176.4	310.8	3.4	0.0	2.4	5.8	311.0	R 5.0	33.6	0.0	R 0.1	0.0	0.0	R 842.6
2017	115.8	327.4	3.5	0.0	1.3	4.8	319.6	R 3.8	28.4	0.0	R 1.1	0.0	0.1	R 800.9
2018	105.6	374.0	6.7	0.0	2.6	9.3	305.8	R 6.0	35.7	0.0	R 2.6	0.0	0.1	R 839.2
2019	42.5	428.6	1.5	0.0	0.9	2.4	308.0	R 5.2	31.2	0.0	R 3.2	0.0	0.0	R 821.0
2020	39.9	469.0	1.5	0.0	0.6	2.2	314.8	R 6.9	27.9	0.0	R 4.7	0.0	0.0	R 865.4
2021	31.8	398.4	2.7	0.0	0.3	3.1	R 298.0	R 4.5	33.1	0.0	R 11.1	R 0.2	0.0	R 780.1
2022	33.8	363.2	6.2	0.0	0.2	6.4	294.1	3.9	29.9	0.0	15.8	0.2	0.0	747.1

^a Includes supplemental gaseous fuels that are commingled with natural gas.

^b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

^c Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.

^d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

^e Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

^f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^g Solar thermal and photovoltaic energy.

^h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

ⁱ 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 the total.

-- = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: · Totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. · The continuity of these data series estimates may be affected by the 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/>