

Table 293. Energy Consumption Estimates by Source, Selected Years 1960-1999, Virginia

Year	Coal ^a Thousand Short Tons	Natural Gas ^b Billion Cubic Feet	Petroleum											Nuclear Electric Power	Hydro-electric Power ^d	Wood and Waste	Other ^{a,e}	Net Inter-state Flow of Electricity/Losses ^f	Total ^g
			Asphalt & Road Oil ^a	Aviation Gasoline ^a	Distillate Fuel ^a	Jet Fuel ^a	Kero-sene ^a	LPG ^a	Lubri-cants ^a	Motor Gasoline	Residual Fuel ^a	Other ^{a,c}	Total						
			Thousand Barrels															Million kWh	
1960	12,142	66	1,753	382	14,146	4,441	5,038	1,146	633	31,077	17,825	R 1,705	R 78,148	0	1,267	—	—	-13,165	—
1965	14,904	96	2,681	721	18,609	6,504	5,544	1,658	664	36,104	16,780	R 2,647	R 91,912	0	883	—	—	-4,629	—
1970	11,294	137	2,250	356	24,640	11,093	5,029	2,412	720	48,684	33,373	R 3,876	R 132,434	0	691	—	—	16,309	—
1975	7,130	121	2,328	251	22,996	11,602	2,264	3,077	734	59,293	40,953	R 2,688	R 146,186	8,970	1,311	—	—	22,851	—
1980	9,291	158	2,618	218	24,599	12,279	1,716	3,131	952	59,035	24,651	R 10,233	R 139,431	11,466	892	—	—	56,966	—
1985	11,656	139	4,033	131	25,252	11,038	4,032	3,932	866	62,979	8,571	R 4,958	R 125,792	22,303	845	—	—	62,743	—
1990	13,105	181	4,701	70	27,940	15,806	1,374	4,088	975	70,333	7,896	R 3,979	R 137,160	23,820	R ^h 487	—	—	R 89,111	—
1991	13,980	175	3,734	116	26,819	11,824	1,562	4,643	872	70,526	9,195	R 4,998	R 134,290	23,886	R 22	—	—	R 90,578	—
1992	13,418	200	3,759	101	26,447	11,670	1,466	4,727	889	71,533	8,083	R 5,323	R 133,999	23,334	R 425	—	—	R 92,676	—
1993	13,584	218	3,697	105	28,181	11,915	1,735	4,829	905	73,827	8,503	R 5,245	R 138,942	22,689	R 539	—	—	R 97,564	—
1994	12,792	231	3,935	101	29,230	12,003	1,459	4,928	946	75,047	7,982	R 5,359	R 140,990	25,429	R 405	—	—	R 95,433	—
1995	13,378	247	3,639	85	30,552	10,589	1,618	4,783	930	78,828	5,543	R 5,231	R 141,798	25,135	R 227	—	—	R 104,053	—
1996	14,983	239	3,512	79	36,148	9,204	1,935	R 5,156	903	79,164	4,138	R 6,215	R 146,453	26,284	R 601	—	—	R 100,300	—
1997	15,276	241	3,474	50	36,869	9,402	2,046	R 5,216	953	81,440	5,285	R 6,616	R 151,353	27,084	R 202	—	—	R 93,189	—
1998	15,843	243	3,889	90	37,020	10,183	2,604	4,006	998	82,197	7,547	6,546	155,079	27,234	328	—	—	87,148	—
1999	15,805	265	4,770	106	37,079	9,314	1,922	4,587	1,009	84,814	8,115	6,704	158,419	28,301	-546	—	—	80,359	—

Trillion Btu																			
1960	316.4	68.4	11.6	1.9	82.4	24.0	28.6	4.6	3.8	163.2	112.1	R 10.1	R 442.5	0.0	13.6	56.1	0.0	-44.9	R 852.1
1965	386.3	98.6	17.8	3.6	108.4	35.8	31.4	6.6	4.0	189.7	105.5	R 15.4	R 518.2	0.0	9.2	54.2	0.0	-15.8	R 1,050.8
1970	275.3	140.1	14.9	1.8	143.5	61.9	28.5	9.1	4.4	255.7	209.8	R 22.5	R 752.2	0.0	7.3	55.5	0.0	55.6	R 1,285.9
1975	169.2	123.6	15.4	1.3	133.9	64.9	12.8	11.4	4.5	311.5	257.5	R 15.5	R 828.8	98.8	13.6	53.2	0.0	78.0	R 1,365.2
1980	231.8	161.0	17.4	1.1	143.3	68.8	9.7	11.5	5.8	310.1	155.0	R 56.8	R 779.4	125.1	9.3	R 70.0	0.0	194.4	R 1,571.0
1985	297.1	144.9	26.8	0.7	147.1	61.7	22.9	14.2	5.3	330.8	53.9	R 27.4	R 690.5	241.2	8.8	R 87.7	0.0	214.1	R 1,684.3
1990	333.0	188.7	31.2	0.4	162.7	88.5	7.8	14.8	5.9	369.5	49.6	R 22.2	R 752.7	254.4	R ^h 5.1	R 102.8	R ^h 0.3	304.0	R ^h 1,941.0
1991	356.6	182.0	24.8	0.6	156.2	66.7	8.9	16.8	5.3	370.5	57.8	R 27.9	R 735.4	256.5	0.2	R 103.3	0.3	R 309.1	R 1,943.4
1992	343.6	207.8	24.9	0.5	154.1	65.9	8.3	17.1	5.4	375.8	50.8	R 29.5	R 732.3	249.2	4.4	R 109.1	0.3	R 316.2	R 1,963.0
1993	347.6	227.5	24.5	0.5	164.2	67.3	9.8	17.4	5.5	387.8	53.5	R 29.1	R 759.6	242.4	5.6	R 109.9	0.3	R 332.9	R 2,025.7
1994	326.5	239.3	26.1	0.5	170.3	68.0	8.3	17.9	5.7	R 392.5	50.2	R 29.7	R 769.1	271.5	4.2	R 114.3	R 0.4	325.6	R 2,050.8
1995	341.1	254.9	24.1	0.4	178.0	60.0	9.2	17.3	5.6	R 411.1	34.8	R 29.0	R 769.7	267.9	2.3	R 124.6	0.4	R 355.0	R 2,115.8
1996	378.8	248.4	23.3	0.4	210.6	52.2	11.0	R 18.6	5.5	R 412.9	26.0	R 34.2	R 794.6	279.2	6.2	R 127.8	0.4	R 342.2	R 2,177.7
1997	384.8	252.0	23.1	0.3	214.8	53.3	11.6	R 18.9	5.8	R 424.5	33.2	R 36.5	R 821.9	287.7	2.1	R 119.7	0.4	R 318.0	R 2,186.7
1998	400.1	253.2	25.8	0.5	215.6	57.7	14.8	14.5	6.1	428.4	47.4	36.1	846.9	289.3	3.4	99.0	0.5	297.3	2,189.8
1999	401.6	275.2	31.7	0.5	216.0	52.8	10.9	16.6	6.1	442.0	51.0	36.8	864.3	300.6	-5.6	116.4	0.5	274.2	2,227.3

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels.

^c "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

^d If applicable, through 1988, includes all net imports of electricity, and, from 1989, includes only the portion of imports of electricity that is derived from hydroelectric power.

^e "Other" is geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

^f Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. A positive number

indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.

^g From 1989, "Total" does not equal the sum of the columns. Net imports of electricity generated from nonrenewable energy sources (shown in appendix Table A8) is included in the total but not in any other columns.

^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.

kWh=kilowatthours. R=Revised data. — =Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 294. Residential Energy Consumption Estimates, Selected Years 1960-1999, Virginia

Year	Coal ^a Thousand Short Tons	Natural Gas ^b Billion Cubic Feet	Petroleum				Wood Thousand Cords	Geothermal	Solar ^c	Electricity ^a Million Kilowatthours	Net Energy	Electrical System Energy Losses ^d	Total
			Distillate Fuel ^a	Kerosene ^a	LPG ^a	Total						Million Kilowatthours	
			Thousand Barrels										
1960	458	27	6,520	4,655	734	11,909	1,499	—	—	4,099	—	10,196	—
1965	281	36	7,471	4,847	1,133	13,452	1,110	—	—	6,557	—	15,655	—
1970	166	50	9,734	4,544	1,430	15,708	882	—	—	11,546	—	27,979	—
1975	114	49	9,091	2,056	1,561	12,708	925	—	—	15,871	—	38,283	—
1980	68	55	7,380	1,403	1,506	10,289	721	—	—	19,731	—	47,979	—
1985	95	49	5,139	3,611	1,805	10,554	1,117	—	—	22,568	—	53,021	—
1990	83	51	5,108	1,160	2,124	8,392	684	—	—	28,130	—	R 61,536	—
1991	49	54	4,593	1,322	2,320	8,235	721	—	—	29,607	—	R 64,364	—
1992	68	62	4,781	1,283	2,429	8,494	758	—	—	29,780	—	R 63,515	—
1993	109	65	4,958	1,489	2,391	8,839	R 821	—	—	32,472	—	R 68,586	—
1994	111	65	4,914	1,256	2,440	8,610	R 805	—	—	32,343	—	R 67,497	—
1995	100	69	4,997	1,220	2,874	9,091	R 893	—	—	33,472	—	R 69,786	—
1996	139	76	5,853	1,544	R 3,188	R 10,585	R 892	—	—	34,651	—	R 72,212	—
1997	64	74	5,380	1,583	R 3,438	R 10,401	R 618	—	—	33,923	—	R 70,564	—
1998	60	63	5,119	2,053	2,624	9,796	545	—	—	34,703	—	71,690	—
1999	44	69	4,978	1,548	2,927	9,454	584	—	—	35,779	—	70,102	—

Trillion Btu

1960	11.4	27.9	38.0	26.4	2.9	67.3	30.0	0.0	0.0	14.0	150.5	34.8	185.3
1965	6.9	37.4	43.5	27.5	4.5	75.5	22.2	0.0	0.0	22.4	164.5	53.4	217.9
1970	4.0	50.8	56.7	25.8	5.4	87.9	17.6	0.0	0.0	39.4	199.7	95.5	295.2
1975	2.7	49.7	53.0	11.7	5.8	70.4	18.5	0.0	0.0	54.2	195.4	130.6	326.1
1980	1.7	55.6	43.0	8.0	5.5	56.5	14.4	0.0	0.0	67.3	195.5	163.7	359.2
1985	2.4	50.7	29.9	20.5	6.5	56.9	22.3	0.0	0.0	77.0	209.3	180.9	390.2
1990	2.1	53.6	29.8	6.6	7.7	44.0	13.7	e 0.1	e 0.1	96.0	e 209.6	R 210.0	R e 419.6
1991	1.2	56.5	26.8	7.5	8.4	42.6	14.4	0.1	0.1	101.0	216.0	R 219.6	R 435.6
1992	1.7	64.8	27.9	7.3	8.8	43.9	15.2	0.1	0.1	101.6	227.5	R 216.7	R 444.2
1993	2.7	68.4	28.9	8.4	8.6	45.9	16.4	0.1	0.1	110.8	244.5	R 234.0	R 478.5
1994	2.8	67.7	28.6	7.1	8.9	44.6	16.1	0.1	0.1	110.4	241.7	230.3	472.0
1995	2.5	70.8	29.1	6.9	10.4	46.4	R 17.9	0.1	0.1	114.2	252.1	R 238.1	R 490.2
1996	3.5	79.1	34.1	8.8	R 11.5	R 54.4	17.8	0.1	0.1	118.2	R 273.3	R 246.4	R 519.7
1997	1.6	77.1	31.3	9.0	R 12.4	R 52.7	R 12.4	0.1	0.1	115.7	R 259.9	R 240.8	R 500.6
1998	1.5	65.9	29.8	11.6	9.5	50.9	10.9	0.1	0.1	118.4	247.9	244.6	492.5
1999	1.1	71.7	29.0	8.8	10.6	48.4	11.7	0.2	0.1	122.1	255.2	239.2	494.4

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels.

^c Includes small amounts of solar thermal and photovoltaic energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.

^d Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^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.

R=Revised data.

—=Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 295. Commercial Energy Consumption Estimates, Selected Years 1960-1999, Virginia

Year	Coal ^a Thousand Short Tons	Natural Gas ^b Billion Cubic Feet	Petroleum						Wood Thousand Cords	Geothermal	Electricity ^a Million Kilowatthours	Net Energy	Electrical System Energy Losses ^c Million Kilowatthours	Total ^d
			Distillate Fuel ^a	Kerosene ^a	LPG ^a	Motor Gasoline	Residual Fuel ^a	Total						
	Thousand Barrels													
1960	841	11	1,388	93	130	223	175	2,009	28	—	3,676	—	9,143	—
1965	515	15	1,591	97	200	275	211	2,373	21	—	6,192	—	14,784	—
1970	305	30	2,072	91	252	210	118	2,744	17	—	10,804	—	26,181	—
1975	209	32	1,935	41	275	310	245	2,807	18	—	14,014	—	33,802	—
1980	125	38	1,634	46	266	371	443	2,759	17	—	16,969	—	41,262	—
1985	176	34	2,460	214	319	456	443	3,892	R 30	—	21,491	—	50,492	—
1990	153	41	2,370	139	375	478	221	3,582	R 43	—	28,082	—	R 61,432	—
1991	90	44	2,132	148	409	341	115	3,146	R 46	—	29,387	—	R 63,885	—
1992	124	51	1,955	127	429	345	224	3,079	R 49	—	29,863	—	R 63,691	—
1993	201	53	2,422	159	422	121	182	3,307	66	—	31,419	—	R 66,361	—
1994	205	53	2,464	101	431	137	157	3,290	67	—	31,624	—	R 65,998	—
1995	185	57	2,572	275	507	132	208	3,694	67	—	33,051	—	R 68,909	—
1996	256	59	3,447	277	R 563	130	258	R 4,674	73	—	33,839	—	R 70,521	—
1997	118	62	3,068	372	R 607	137	130	R 4,314	R 68	—	34,165	—	R 71,066	—
1998	111	58	3,158	433	463	123	119	4,297	68	—	35,793	—	73,942	—
1999	80	62	2,880	317	517	166	218	4,097	82	—	36,893	—	72,285	—

Trillion Btu														
1960	20.8	11.7	8.1	0.5	0.5	1.2	1.1	11.4	0.6	0.0	12.5	57.1	31.2	88.3
1965	12.7	15.3	9.3	0.5	0.8	1.4	1.3	13.4	0.4	0.0	21.1	62.9	50.4	113.3
1970	7.3	30.9	12.1	0.5	1.0	1.1	0.7	15.4	0.3	0.0	36.9	90.7	89.3	180.0
1975	4.9	33.0	11.3	0.2	1.0	1.6	1.5	15.7	0.4	0.0	47.8	101.7	115.3	217.1
1980	3.1	39.0	9.5	0.3	1.0	1.9	2.8	15.5	0.3	0.0	57.9	115.8	140.8	256.6
1985	4.4	35.3	14.3	1.2	1.1	2.4	2.8	21.9	R 0.6	0.0	73.3	R 135.5	172.3	R 307.7
1990	3.8	42.8	13.8	0.8	1.4	2.5	1.4	19.8	R 0.9	e (s)	95.8	R e 163.2	209.6	R e 372.8
1991	2.3	45.9	12.4	0.8	1.5	1.8	0.7	17.3	R 0.9	(s)	100.3	R 166.7	R 218.0	R 384.6
1992	3.1	52.7	11.4	0.7	1.6	1.8	1.4	16.9	R 1.0	0.1	101.9	R 175.6	R 217.3	R 392.9
1993	5.0	55.2	14.1	0.9	1.5	0.6	1.1	18.3	1.3	0.1	107.2	187.2	R 226.4	R 413.6
1994	5.1	55.0	14.4	0.6	1.6	0.7	1.0	18.2	1.3	0.1	107.9	187.6	225.2	412.8
1995	4.6	58.7	15.0	1.6	1.8	0.7	1.3	20.4	1.3	0.1	112.8	197.9	R 235.1	R 433.1
1996	6.4	61.5	20.1	1.6	R 2.0	0.7	1.6	R 26.0	1.5	0.1	115.5	R 211.0	R 240.6	R 451.6
1997	2.9	64.6	17.9	2.1	R 2.2	0.7	0.8	R 23.7	R 1.4	0.2	116.6	R 209.3	R 242.5	R 451.8
1998	2.8	60.8	18.4	2.5	1.7	0.6	0.8	23.9	1.4	0.2	122.1	211.1	252.3	463.4
1999	2.0	63.7	16.8	1.8	1.9	0.9	1.4	22.7	1.6	0.2	125.9	216.1	246.6	462.8

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels.

^c Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^d Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

^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.

R=Revised data.

— =Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 296. Industrial Energy Consumption Estimates, Selected Years 1960-1999, Virginia

Year	Coal Thousand Short Tons	Natural Gas ^a Billion Cubic Feet	Petroleum									Hydro-electric Power ^b Million kWh	Wood and Waste	Other ^{b,d}	Electricity ^b		Electrical System Energy Losses ^e Million kWh	Total
			Asphalt and Road Oil ^b	Distillate Fuel ^b	Kerosene ^b	LPG ^b	Lubricants ^b	Motor Gasoline	Residual Fuel ^b	Other ^{b,c}	Total				Million kWh	Net Energy		
			Thousand Barrels															
1960	4,503	22	1,753	2,133	291	275	182	882	5,739	R 1,705	R 12,961	79	—	—	3,786	—	9,418	—
1965	5,824	36	2,681	2,977	600	301	236	838	6,754	R 2,647	R 17,033	87	—	—	5,834	—	13,929	—
1970	4,172	45	2,250	4,415	395	682	289	653	4,170	R 3,020	R 15,874	41	—	—	7,467	—	18,095	—
1975	2,816	37	2,328	3,128	167	1,184	307	460	7,611	R 2,688	R 17,872	38	—	—	9,437	—	22,764	—
1980	3,538	55	2,618	3,573	267	1,312	422	278	5,203	R 10,233	R 23,905	27	—	—	11,637	—	28,297	—
1985	4,219	51	4,033	3,035	207	1,707	384	686	3,408	R 4,958	R 18,418	27	—	—	13,561	—	31,861	—
1990	4,641	75	4,701	3,051	75	1,526	432	705	2,893	R 3,979	R 17,362	R ^f 59	—	—	16,399	—	R 35,873	—
1991	5,273	60	3,734	2,936	92	1,812	387	671	2,491	R 4,998	R 17,121	R 48	—	—	16,029	—	R 34,845	—
1992	4,564	69	3,759	2,527	56	1,767	394	668	2,945	R 5,323	R 17,440	R 72	—	—	16,714	—	R 35,647	—
1993	3,826	74	3,697	2,962	87	1,906	402	635	2,745	R 5,245	R 17,679	R 66	—	—	17,390	—	R 36,731	—
1994	3,807	87	3,935	2,476	101	1,876	420	666	2,499	R 5,359	R 17,333	R 76	—	—	18,154	—	R 37,885	—
1995	3,551	99	3,639	3,545	122	1,338	412	718	1,804	R 5,231	R 16,810	R 77	—	—	18,554	—	R 38,684	—
1996	3,594	86	3,512	4,429	114	R 1,349	406	766	1,820	R 6,223	R 18,605	R 91	—	—	19,021	—	R 39,639	—
1997	3,489	87	3,474	5,156	91	R 1,124	423	801	2,463	R 6,616	R 20,148	R 127	—	—	19,249	—	R 40,040	—
1998	3,371	94	3,889	4,518	118	884	443	794	2,139	6,546	19,330	72	—	—	20,024	—	41,366	—
1999	3,254	103	4,770	4,303	56	1,130	447	571	2,046	6,704	20,026	62	—	—	20,269	—	39,714	—

Trillion Btu																		
1960	114.9	23.3	11.6	12.4	1.6	1.1	1.1	4.6	36.1	R 10.1	R 78.8	0.8	25.5	0.0	12.9	R 256.2	32.1	R 288.4
1965	147.4	36.6	17.8	17.3	3.4	1.2	1.4	4.4	42.5	R 15.4	R 103.4	0.9	31.6	0.0	19.9	R 339.8	47.5	R 387.3
1970	99.3	46.0	14.9	25.7	2.2	2.6	1.8	3.4	26.2	R 17.3	R 94.2	0.4	37.5	0.0	25.5	R 302.8	61.7	R 364.6
1975	66.1	37.3	15.4	18.2	0.9	4.4	1.9	2.4	47.9	R 15.5	R 106.7	0.4	34.4	0.0	32.2	R 277.0	77.7	R 354.7
1980	88.1	55.4	17.4	20.8	1.5	4.8	2.6	1.5	32.7	R 56.8	R 138.0	0.3	R 55.3	0.0	39.7	R 376.8	96.6	R 473.3
1985	106.7	52.8	26.8	17.7	1.2	6.1	2.3	3.6	21.4	R 27.4	R 106.5	0.3	R 64.8	0.0	46.3	R 377.3	108.7	R 486.0
1990	117.9	78.3	31.2	17.8	0.4	5.5	2.6	3.7	18.2	R 22.2	R 101.7	R ^f 0.6	R 88.3	R ^f 0.0	56.0	R ^f 442.7	122.4	R ^f 565.1
1991	134.3	62.8	24.8	17.1	0.5	6.5	2.3	3.5	15.7	R 27.9	R 98.4	R 0.5	R 88.0	0.0	54.7	R 438.7	R 118.9	R 557.6
1992	116.6	72.1	24.9	14.7	0.3	6.4	2.4	3.5	18.5	R 29.5	R 100.3	R 0.7	R 93.0	0.0	57.0	R 439.7	R 121.6	R 561.4
1993	97.7	77.4	24.5	17.3	0.5	6.9	2.4	3.3	17.3	R 29.1	R 101.3	0.7	R 92.2	0.0	59.3	R 428.5	R 125.3	R 553.8
1994	97.1	90.2	26.1	14.4	0.6	6.8	2.5	3.5	15.7	R 29.7	R 99.4	0.8	R 96.8	0.0	61.9	R 446.1	129.3	R 575.4
1995	90.7	101.9	24.1	20.6	0.7	4.8	2.5	R 3.7	11.3	R 29.0	R 96.9	0.8	R 105.4	0.0	63.3	R 459.0	R 132.0	R 591.0
1996	91.9	88.8	23.3	25.8	0.6	R 4.9	2.4	4.0	11.4	R 34.2	R 106.7	R 0.9	R 108.5	0.0	64.9	R 461.7	R 135.2	R 596.9
1997	88.9	90.4	23.1	30.0	0.5	R 4.1	2.6	4.2	15.5	R 36.5	R 116.4	1.3	R 106.0	0.0	65.7	R 468.7	R 136.6	R 605.3
1998	85.8	98.0	25.8	26.3	0.7	3.2	2.7	4.1	13.4	36.1	112.3	0.7	86.8	0.0	68.3	452.0	141.1	593.1
1999	82.9	106.6	31.7	25.1	0.3	4.1	2.7	3.0	12.9	36.8	116.4	0.6	103.1	0.0	69.2	478.9	135.5	614.4

^a Includes supplemental gaseous fuels.

^b The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^c "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."

^d "Other" is geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

^e Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for

electrical system energy losses.

^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.

R=Revised data.

kWh=kilowatt-hours. — =Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 297. Transportation Energy Consumption Estimates, Selected Years 1960-1999, Virginia

Year	Coal ^a	Natural Gas ^b	Petroleum								Ethanol ^c	Electricity ^a	Net Energy	Electrical System Energy Losses ^d	Total ^c
			Aviation Gasoline ^a	Distillate Fuel ^a	Jet Fuel ^a	LPG ^a	Lubricants ^a	Motor Gasoline	Residual Fuel ^a	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Barrels	Million Kilowatthours	Million Kilowatthours	Total ^c	
1960	79	4	382	4,099	4,441	7	451	29,972	11,780	51,134	0	0	—	0	—
1965	19	7	721	6,564	6,504	24	428	34,992	9,645	58,877	0	0	—	0	—
1970	7	8	356	7,698	11,093	47	430	47,821	12,000	79,446	0	0	—	0	—
1975	(s)	3	251	8,217	11,602	57	427	58,524	6,356	85,436	0	0	—	0	—
1980	0	8	218	11,219	12,279	47	530	58,386	4,419	87,098	0	32	—	78	—
1985	0	4	131	14,278	11,038	102	482	61,837	3,419	91,287	R ^e 658	60	—	141	—
1990	0	7	70	16,930	15,806	63	542	69,150	3,362	105,922	R ^e 381	86	—	189	—
1991	0	7	116	16,856	11,824	101	485	69,513	3,780	102,675	R ^e 365	88	—	192	—
1992	0	6	101	16,915	11,670	102	495	70,521	2,872	102,676	R ^e 275	91	—	195	—
1993	0	6	105	17,616	11,915	109	504	73,071	2,396	105,715	R ^e 51	91	—	192	—
1994	0	6	101	18,887	12,003	182	527	74,244	1,977	107,920	R ^e 277	89	—	186	—
1995	0	6	85	19,113	10,589	64	518	77,978	1,953	110,299	R ^e 1	86	—	179	—
1996	0	8	79	22,079	9,204	R ^e 56	502	78,268	1,238	R ^e 111,426	R ^e 954	85	—	R ^e 178	—
1997	0	7	50	23,065	9,402	R ^e 48	531	80,503	1,483	R ^e 115,081	R ^e 737	83	—	R ^e 173	—
1998	0	7	90	23,837	10,183	35	555	81,280	1,338	117,318	920	88	—	181	—
1999	0	8	106	24,432	9,314	14	561	84,077	1,464	119,969	787	91	—	179	—
Trillion Btu															
1960	2.0	4.1	1.9	23.9	24.0	(s)	2.7	157.4	74.1	284.1	0.0	0.0	290.2	0.0	290.2
1965	0.5	7.0	3.6	38.2	35.8	0.1	2.6	183.8	60.6	324.8	0.0	0.0	332.2	0.0	332.2
1970	0.2	8.0	1.8	44.8	61.9	0.2	2.6	251.2	75.4	438.0	0.0	0.0	446.1	0.0	446.1
1975	(s)	3.1	1.3	47.9	64.9	0.2	2.6	307.4	40.0	464.3	0.0	0.0	467.4	0.0	467.4
1980	0.0	8.4	1.1	65.3	68.8	0.2	3.2	306.7	27.8	473.1	0.0	0.1	481.6	0.3	481.8
1985	0.0	4.6	0.7	83.2	61.7	0.4	2.9	324.8	21.5	495.1	R ^e 2.3	0.2	^e 499.9	0.5	^e 500.4
1990	0.0	7.2	0.4	98.6	88.5	0.2	3.3	363.2	21.1	575.4	R ^e 1.3	0.3	582.9	0.6	583.6
1991	0.0	6.9	0.6	98.2	66.7	0.4	2.9	365.2	23.8	557.7	R ^e 1.3	0.3	564.9	0.7	565.6
1992	0.0	6.7	0.5	98.5	65.9	0.4	3.0	370.4	18.1	556.8	R ^e 1.0	0.3	563.8	0.7	564.5
1993	0.0	6.0	0.5	102.6	67.3	0.4	3.1	383.8	15.1	572.8	0.2	0.3	579.1	0.7	579.7
1994	0.0	6.6	0.5	110.0	68.0	0.7	3.2	R ^e 388.3	12.4	R ^e 583.1	R ^e 1.0	0.3	R ^e 590.0	0.6	R ^e 590.6
1995	0.0	6.5	0.4	111.3	60.0	0.2	3.1	R ^e 406.7	12.3	R ^e 594.1	(s)	0.3	R ^e 600.9	0.6	R ^e 601.5
1996	0.0	8.1	0.4	128.6	52.2	0.2	3.0	R ^e 408.2	7.8	R ^e 600.5	R ^e 3.4	0.3	R ^e 608.9	0.6	R ^e 609.5
1997	0.0	7.7	0.3	134.4	53.3	0.2	3.2	R ^e 419.7	9.3	R ^e 620.3	R ^e 2.6	0.3	R ^e 628.3	0.6	R ^e 628.9
1998	0.0	7.2	0.5	138.8	57.7	0.1	3.4	423.6	8.4	632.6	3.3	0.3	640.1	0.6	640.7
1999	0.0	8.3	0.5	142.3	52.8	(s)	3.4	438.1	9.2	646.5	2.8	0.3	655.1	0.6	655.7

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

^c Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector and is included only once in the total.

^d Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

R=Revised data.

— =Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 298. Estimates of Energy Input at Electric Utilities, Selected Years, 1960-1999, Virginia

Year	Coal	Natural Gas ^a	Petroleum				Nuclear Electric Power	Hydroelectric Power ^e	Wood and Waste	Geothermal Energy	Other ^{b,f}	Total ^g
			Heavy Oil ^{b,c}	Light Oil ^{b,d}	Petroleum Coke ^b	Total						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	6,262	1	130	6	0	136	0	1,189	0	0	0	—
1965	8,265	2	170	7	0	178	0	797	0	0	0	—
1970	6,644	4	17,085	721	856	18,662	0	650	0	0	0	—
1975	3,991	(s)	26,741	624	0	27,364	8,970	1,273	0	0	0	—
1980	5,560	2	14,586	793	0	15,379	11,466	864	0	0	0	—
1985	7,166	2	1,301	340	0	1,641	22,303	818	0	0	0	—
1990	8,228	7	1,421	482	0	1,902	23,820	428	0	0	(s)	—
1991	8,568	9	2,810	302	0	3,112	23,886	-26	0	0	(s)	—
1992	8,661	11	2,041	269	0	2,310	23,334	353	0	0	(s)	—
1993	9,447	20	3,180	222	0	3,402	22,689	473	0	0	(s)	—
1994	8,670	19	3,348	489	0	3,837	25,429	329	0	0	(s)	—
1995	9,543	16	1,577	326	0	1,903	25,135	149	0	0	(s)	—
1996	10,994	10	822	341	0	1,163	26,286	510	0	0	0	—
1997	11,605	12	1,209	199	0	1,408	27,084	76	0	0	0	—
1998	12,300	20	3,950	388	0	4,338	27,234	256	0	0	0	—
1999	12,427	23	4,387	486	0	4,873	28,301	-608	0	0	0	—

Trillion Btu												
1960	167.4	1.5	0.8	(s)	0.0	0.9	0.0	12.8	0.0	0.0	0.0	182.5
1965	218.8	2.3	1.1	(s)	0.0	1.1	0.0	8.3	0.0	0.0	0.0	230.6
1970	164.6	4.4	107.4	4.2	5.2	116.8	0.0	6.8	0.0	0.0	0.0	292.6
1975	95.5	0.5	168.1	3.6	0.0	171.8	98.8	13.2	0.0	0.0	0.0	379.8
1980	139.1	2.5	91.7	4.6	0.0	96.3	125.1	9.0	0.0	0.0	0.0	372.0
1985	183.6	1.6	8.2	2.0	0.0	10.2	241.2	8.5	0.0	0.0	0.0	445.1
1990	209.2	6.8	8.9	2.8	0.0	11.7	254.4	4.4	0.0	0.0	(s)	486.6
1991	218.8	9.9	17.7	1.8	0.0	19.4	256.5	-0.3	0.0	0.0	(s)	504.4
1992	222.3	11.5	12.8	1.6	0.0	14.4	249.2	3.6	0.0	0.0	(s)	500.9
1993	242.2	20.5	20.0	1.3	0.0	21.3	242.4	4.9	0.0	0.0	(s)	531.2
1994	221.6	19.9	21.1	2.8	0.0	23.9	271.5	3.4	0.0	0.0	(s)	540.3
1995	243.2	16.9	9.9	1.9	0.0	11.8	267.9	1.5	0.0	0.0	(s)	541.4
1996	277.0	10.9	5.2	2.0	0.0	7.2	279.2	5.3	0.0	0.0	0.0	579.5
1997	291.4	12.1	7.6	1.2	0.0	8.8	287.7	0.8	0.0	0.0	0.0	600.8
1998	310.0	21.4	24.8	2.3	0.0	27.1	289.3	2.6	0.0	0.0	0.0	650.5
1999	315.7	24.7	27.6	2.8	0.0	30.4	300.6	-6.3	0.0	0.0	0.0	665.2

^a Includes supplemental gaseous fuels.

^b The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^c Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.

^d Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.

^e If applicable, through 1988, includes all net imports of electricity, and, from 1989, includes only the portion of imports of electricity that is derived from hydroelectric power.

^f "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.

^g If applicable, from 1989, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns. See data in appendix Table A8.

— =Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.