Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Virginia

1900				Petroleum							Biomass							
Thomas   The   Thomas   Thom		Coal			HGL <sup>b</sup>			Other d	Total	electric				Solar <sup>f,i</sup>	Electricity <sup>j</sup>			
1879	Year			Thousand barrels								and co-				End use f,k	energy	Total f,k
1970 4,172 459 4,418 6869 6530 4,170 4,7869 41 NA 7,467 NA 1980 1980 5588 553 4,737 1,312 2,729 5,200 5,917 10,282 37 NA 113,677 1980 4,219 51 3,389 1,709 688 3,406 6,831 16,020 2,7 NA 113,661 1980 4,219 51 3,389 1,709 688 3,406 6,831 16,020 2,7 NA 113,661 1980 4,219 51 3,938 1,709 688 3,406 6,831 16,020 2,7 NA 113,661 1980 1,709 1,700 688 3,406 6,831 16,020 2,7 NA 113,661 NA 113,661 1980 1,7 1	1960	4,503	22	2,133	275	882	5,739	3,931	12,961	79				NA	3,786			
1980   3,588   55   3,573   1,312   278   5,203   5,917   16,280   277	1965	5,824	36	2,977	301	838	6,754	5,372	16,241					NA	5,834			
1980   3.588   55   3.573   1.312   278   5.203   5.917   16.2821   277			45 37					4,767 4,682										
1986   4,219   51   3,389   1,707   686   3,348   6,931   16,021   27       NA   15,661	1980	3,538	55	3,573	1,312	278	5.203	5,917	16.282	27					11.637			
1986 3.551 99 3.661 1.338 718 1.777 6.010 13.504 14 (6) 18.654 (20) 2.005 3.652 76 7.005 1.454 1.539 2.006 6.553 1.650 7.005 1.655 7.005 1.655 7.005 1.655 7.005 1.655 7.005 1.655 7.005 1.655 7.005 1.655 7.005 1.655 7.005 1.655 7.005 1.655 7.005 1.655 7.005 1.655 7.005 1.655 7.005 1.655 7.005 1.655 7.005 7.005 1.655 7.00	1985	4,219	51	3,389	1,707	686	3,408	6,831	16,021						13,561			
2000   3.425   78				3,625		705 719									16,399			
2006 3.295 76 77 0 57.205 1.244 1.639 2.406 6.553 18.847 13 (9) 19.354 2006 2.5052 1.455 1.752 1.25 6.847 13 1.005 6.553 18.847 13 (9) 19.354 2006 2.5052 1.00	2000	3,425	78		1,945		1,777	6,401	15,639						20.619			
2007 3,135 75 7,114 1,081 1,081 1,081 1,031 6,580 17,487 7 (a) 13,525 (b) 13,525 1 (c) 13,525 1 -	2005	3,295	76	7,105	1,244	1,639	2,406	6,553	18,947	13				(s)	19,354			
2008 3,125 67 6,807 867 817 2,005 5,338 15,554 9 (a) 134,438 (b) 144,438 (c) 2009 2,463 80 1,106 80 80 1,106 5,444 1,162 5,444		3,068					1,126	6,847	18,032	6				(s)	18,998			
2009   2,463   63   3,108   669   809   1,625   5,443   11,654   10         (s)   16,678	2007	3,135	/5 67	/,114 6.807	1,081	1,081	1,631	6,580 5,358	17,487	/ a				(S)	18,925 18.438			
2010   2.773		2,463	63	3.108	669		1.625	5,443	11.654		==	==		(s)	16,430	==		
2014 2,128 88 3,097 922 960 274 3,973 9,226 10 (6) 17,701 2017 1,708 9 1,708	2010	2,773	68	2,419	676	971	1 476	5,044	10,585					(s)	17.141			
2014 2,128 88 3,097 922 960 274 3,973 9,226 10 (6) 17,701 2017 1,708 9 1,708		2,653		2,513	680	951	1,022	5,052	10,217					(s)	17,218			
2014 2,128 88 3,097 922 960 274 3,973 9,226 10 (6) 17,701 2017 1,708 9 1,708	2012	2,475	80	2,822	672	959	855 553	4,548	9,856	12				(s)	17,316			
2015   1,708   95   2,664   987   745   326   4,747   9,469   12         (s)   17,537		2,371	88	3.097	922	960	274		9,226					(s)	17,701			
2016   1,629   95   2,825   889   739   349   14,589   19,401   9       (s)   17,648       2017   1,522   101   2,805   838   748   105   76,014   79,311   (s)       1   17,648       2018   1,524   100   2,535   80   176   8   48,625   8   738   100   2,161   612   763   57   763   57   78,228   87,781   9   (s)       2   17,798       2021   1,296   118   2,644   1,024   759   135   14,522   19,103   (s)       3   17,474     2022   1,197   113   2,672   1,289   784   138   4,860   9,743   (s)         5   16,861        1980   1149   233   124   10   4,6   85,1   24,5   78,7   80,3   16   NA   NA   NA   12.9   1,825   1,	2015	1,708	95	2,664	987	745	326	4.747	9 469					(s)	17,537			
2018 1,526 103 2,538 810 761 40 R4,622 R8,781 (s) 2 17,737 2 2 17,738 2 2 17,738 2 2 17,738 2 2 17,738 2 2 17,738 2 2 17,738 2 2 17,738 2 2 17,738 2 2 17,738 3 3 19,712 3 3 19,712 3 3 19,712 3 3 19,712 5 16,861	2016	1.629	95	2,825	889	739	349	H 4 598	R 9 401	9				(s)	17,648			
2020 1,253 110 2,161 612 763 57 H4,226 H7,819 (s) 3 17,474 2022 1,197 113 2,672 1,289 784 138 4,860 9,743 (s) 5 16,861 2022 1,197 113 2,672 1,289 784 138 4,860 9,743 (s) 5 16,861 2022 1,197 113 2,672 1,289 784 138 4,860 9,743 (s) 5 16,861 2022 1,197 113 2,672 1,289 784 138 4,860 9,743 (s) 5 16,861 2022 1,197 113 2,672 1,289 784 138 4,860 9,743 (s) 5 16,861 2022 1,197 114 2,10 4,6 36,1 24,5 78,7 R3,7 R3,18 R3,8 R3,8 R3,8 R3,8 R3,8 R3,8 R3,8 R3,		1,522					105	<sup>H</sup> 5,014	<sup>n</sup> 9,311					1				
2020 1,253 110 2,161 612 763 57 H4,226 H7,819 (s) 3 17,474 2022 1,197 113 2,672 1,289 784 138 4,860 9,743 (s) 5 16,861 2022 1,197 113 2,672 1,289 784 138 4,860 9,743 (s) 5 16,861 2022 1,197 113 2,672 1,289 784 138 4,860 9,743 (s) 5 16,861 2022 1,197 113 2,672 1,289 784 138 4,860 9,743 (s) 5 16,861 2022 1,197 113 2,672 1,289 784 138 4,860 9,743 (s) 5 16,861 2022 1,197 114 2,10 4,6 36,1 24,5 78,7 R3,7 R3,18 R3,8 R3,8 R3,8 R3,8 R3,8 R3,8 R3,8 R3,	2018	1,526	103	2,538 2,714	654	751 758	253	R 4,632	R 9 131					2	17,737			
1,298		1,253			612	763	57	H / 226	R 7 819	>- (				3	17,474			
Trillion Btu   Tril	2021	1,298				759		H 4,542	R 9,103						19,712			
1960	2022	1,197	113	2,672	1,289	784	138	4,860	9,743					5	16,861			
1966 147.4 36.6 17.3 1.1 4.4 42.5 33.6 98.9																		
1970 99.3 46.0 25.7 2.5 3.4 26.2 29.8 87.6 n.0.1 37.5 NA NA NA NA 25.5 n.296.0 n.52.2 n.296.1 1975 66.1 37.3 18.2 4.2 2.4 47.9 29.3 102.0 n.0.1 34.4 NA NA NA NA NA 32.2 n.296.0 n.52.2 n.296.1 1985 106.7 52.8 19.7 5.8 3.6 21.4 42.9 93.5 n.0.1 64.8 0.3 NA NA NA NA NA 39.7 n.334.8 n.84.5 n.84.1 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) 56.0 412.2 n.296.0 n.41.2 1995 90.7 101.8 21.3 4.6 3.7 11.2 38.1 79.0 n.66.1 0.2 0.0 (s) 56.0 412.2 n.296.0 n.41.2 2000 91.5 80.8 28.3 6.7 3.0 11.7 40.5 90.1 n.6 (s) 78.2 0.1 0.0 (s) 63.3 n.4 14.4 n.5 2005 86.9 79.7 41.3 4.3 8.5 15.1 42.1 111.4 n.6 (s) 73.4 (s) 0.0 (s) 66.0 417.9 n.166.8 n.5 2006 80.6 76.9 39.9 5.0 9.0 7.1 43.5 104.5 n.45 1.0 14.5 1.0 1.0 0 (s) 64.8 396.7 n.147.8 n.5 2008 81.8 69.6 39.3 2.2 4.2 12.6 33.6 92.0 n.5 1.0 0.5 1.0 0 (s) 65.9 n.0 (s) 64.6 n.394.4 n.146.6 n.5 2008 81.8 69.6 39.3 2.2 4.2 12.6 33.6 92.0 n.5 1.0 0 (s) 65.9 n.0 (s) 64.0 147.9 n.5 2009 64.3 65.4 18.0 2.2 4.1 10.2 34.5 69.1 n.6 (s) 59.8 (s) 0.0 (s) 65.9 n.3 15.6 n.142.8 n.4 2011 70.3 75.3 14.5 2.6 4.9 9.3 32.6 63.3 n.6 (s) 50.0 (s) 58.7 n.141.1 70.3 75.3 14.5 2.6 4.9 9.3 32.6 63.3 n.6 (s) 51.3 (s) 0.0 (s) 58.5 n.3 14.5 2.6 4.9 9.3 32.6 63.3 n.6 (s) 51.3 (s) 0.0 (s) 58.5 n.3 14.5 2.6 4.9 9.3 32.6 63.3 n.6 (s) 51.3 (s) 0.0 (s) 58.5 n.3 14.5 2.6 4.9 9.3 32.6 63.3 n.6 (s) 51.3 (s) 0.0 (s) 58.5 n.3 14.5 2.6 4.9 9.3 32.6 63.3 n.6 (s) 51.3 (s) 0.0 (s) 58.5 n.3 14.5 2.6 4.9 9.3 32.6 63.3 n.6 (s) 51.3 (s) 0.0 (s) 58.5 n.3 14.5 2.6 4.9 9.3 32.6 63.3 n.6 (s) 51.3 (s) 0.0 (s) 58.5 n.3 14.5 2.6 4.9 9.3 32.6 63.3 n.6 (s) 51.3 (s) 0.0 (s) 58.5 n.3 14.5 2.6 4.9 9.3 32.6 63.3 n.6 (s) 51.3 (s) 0.0 (s) 58.5 n.3 14.5 2.6 4.9 9.3 32.6 63.3 n.6 (s) 51.3 (s) 0.0 (s) 58.5 n.3 14.5 2.6 4.9 9.3 32.6 63.3 n.6 (s) 51.3 (s) 0.0 (s) 58.5 n.3 14.9 9.9 12.2 n.9 14.2 n.5	1960		23.3	12.4			36.1	24.5	78.7	H 0.3				NA	12.9	H 255.6	H 26.0	R 281.6
1985 106.7 52.8 19.7 5.8 3.6 21.4 42.9 93.5 0.1 64.8 0.3 NA NA 46.3 7364.2 94.0 74.1 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) 56.0 412.2 182.1 1995 90.7 101.8 21.3 4.6 3.7 11.2 38.1 79.0 P(s) 81.4 0.2 0.0 (s) 63.3 P416.3 P416.3 P416.3 P416.4 P416.5 P41.5 P416.5 P41.5 P416.5 P41.5 P416.5 P41.5 P416.5	1965			17.3			42.5	33.6	98.9	Bo 1		NA NA			19.9	H 334.8	11 39.2 R 52 2	H 3/3.9
1985 106.7 52.8 19.7 5.8 3.6 21.4 42.9 93.5 0.1 64.8 0.3 NA NA 46.3 7364.2 94.0 74.0 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) 56.0 412.2 11.5 11.5 11.5 11.5 11.5 11.5 11.5	1975	66.1			4.2	2.4	47.9	29.3		R 0.1					32.2	R 272 1	R 65.7	R 337 9
1985 106.7 52.8 19.7 5.8 3.6 21.4 42.9 93.5 0.1 64.8 0.3 NA NA 46.3 7364.2 94.0 74.0 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) 56.0 412.2 11.5 11.5 11.5 11.5 11.5 11.5 11.5	1980	88.1	55.4	20.8	4.6	1.5	32.7	36.7	96.3	n 0.1	55.3	NA	NA	NA	39.7	R 334.8	R 84.5	R 419.3
1995 90.7 101.8 21.3 4.6 3.7 11.2 38.1 79.0 % (s) 81.4 0.2 0.0 % (s) 63.3 % 416.3 % 1418.4 % 12000 91.5 80.8 28.3 6.7 3.0 % 11.7 40.5 90.1 % (s) 73.4 % (s) 0.0 % (s) 66.0 417.5 % 151.6 % 15.0 % 11.7 40.5 % 104.5 %																	H 94.0	<sup>H</sup> 458 3
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) 70.4 410.9 R 166.8 R 5 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) 66.0 417.5 R 151.6 R 5 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) 64.8 396.7 R 147.8 R 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 5 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) 64.6 R 394.4 R 146.6 R 5 2009 64.3 65.4 18.0 2.2 4.1 10.2 34.5 69.1 R (s) 65.3 (s) 0.0 (s) 65.9 315.5 R 124.8 R 4 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 4 2011 70.3 75.3 14.5 2.6 4.8 6.4 32.8 61.2 R (s) 53.1 (s) 0.0 (s) 58.7 R 316.8 R 123.6 R 4 2012 67.6 82.7 16.3 2.6 4.9 5.4 29.6 58.7 R (s) 51.3 (s) 0.0 (s) 58.7 R 316.8 R 123.6 R 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) 58.8 7 83.7 R 316.8 R 123.6 R 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) 58.6 R 32.0 R 128.7 R 4 2016 45.7 100.1 16.3 3.4 3.7 2.2 29.7 55.3 R (s) 63.3 2.3 0.0 (s) 59.8 R 327.6 R 118.3 R 4 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 115.2 R 4 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 115.2 R 4 2019 42.1 112.8 15.6 2.5 3.8 1.6 R 30.0 R 32.8 R 15.7 (s) 58.5 0.1 0.0 (s) 58.6 R 33.8 0.8 R 110.8 R 4 2019 42.1 112.8 15.6 2.5 3.8 1.6 R 30.0 R 32.8 R 15.7 (s) 58.5 0.1 0.0 (s) 58.6 R 33.8 0.8 R 115.0 R 4 2019 42.1 112.8 15.6 2.5 3.8 1.6 R 30.0 R 32.8 R 15.7 (s) 58.5 0.1 0.0 (s) 59.6 R 315.8 R 190.4 R 4 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 190.4 R 4 2021 36.5 116.6 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 190.4 R 4 2021 36.5 116.6 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 190.4 R 4 2021 36.5 115.5 15.2 3.9 3.8 0.8 R 82.7 (s) 58.8 R 52.7 (s) 58.5 0.1 0.0 (s) 59.6 R 315.8 R 191.0 R 4 2021 36.5 115.5 15.2 3.9 3.8 0.8 R 82.7 (s) 58.8 R 52.7 (s) 58.5 0.1 0.0 (s) 59.6 R 31	1990	117.9				3.7	17.9	45.7	93.7	B (a)	01 /	0.2			56.0	412.2 R 416.2	1 128.1 R 149.4	R 540.3 R 564.7
2005 86.9 79.7 41.3 4.3 8.5 15.1 42.1 111.4 P(s) 73.4 (s) 0.0 (s) 66.0 417.5 P151.6 P5 2007 82.5 77.7 41.1 3.7 5.6 10.3 41.7 102.3 P(s) 69.9 (s) 0.0 (s) 64.8 396.7 P147.8 P5 2007 82.5 77.7 41.1 3.7 5.6 10.3 41.7 102.3 P(s) 67.4 (s) 0.0 (s) 64.6 P394.4 P146.6 P5 2008 81.8 69.6 39.3 2.2 4.2 12.6 33.6 92.0 P(s) 65.3 (s) 0.0 (s) 62.9 P371.6 P142.5 P5 2009 64.3 65.4 18.0 2.2 4.1 10.2 34.5 69.1 P(s) 59.8 (s) 0.0 (s) 56.9 315.5 P124.8 P4 2010 72.7 70.1 14.0 2.6 4.9 9.3 32.6 63.3 P(s) 53.1 (s) 0.0 (s) 58.5 P317.8 P127.7 P4 2012 67.6 82.7 16.3 2.6 4.9 8.4 92.8 61.2 P(s) 51.3 (s) 0.0 (s) 58.5 P317.8 P127.7 P4 2012 67.6 82.7 16.3 2.6 4.9 5.4 29.6 58.7 P(s) 51.7 (s) 0.0 (s) 59.1 319.9 P120.8 P4 2014 58.4 92.3 17.8 3.5 4.9 11.7 25.5 53.5 P(s) 60.0 2.0 0.0 (s) 58.5 99.0 15.4 3.8 3.8 2.0 30.7 55.3 P(s) 60.0 2.0 0.0 (s) 59.8 P327.6 P120.8 P4 2015 47.5 99.0 15.4 3.8 3.8 2.0 30.7 55.3 P(s) 63.3 2.3 0.0 (s) 59.8 P327.6 P120.8 P4 2017 43.0 106.2 15.0 3.2 3.8 0.7 P317.8 P317.9 P317										R /e/	78.2						R 166.8	R 577.7
2006 80.6 76.9 39.9 5.0 9.0 7.1 43.5 104.5 F(s) 69.9 (s) 0.0 (s) 64.8 396.7 F147.8 F5 2007 82.5 77.7 41.1 3.7 5.6 10.3 41.7 102.3 F(s) 67.4 (s) 0.0 (s) 64.6 F394.4 F146.6 F5 2008 81.8 69.6 39.3 2.2 4.2 12.6 33.6 92.0 F(s) 65.3 (s) 0.0 (s) 62.9 F371.6 F142.5 F5 2008 64.3 65.4 18.0 2.2 4.1 10.2 34.5 69.1 F(s) 59.8 (s) 0.0 (s) 56.9 F371.6 F142.5 F5 2009 64.3 65.4 18.0 2.2 4.1 10.2 34.5 69.1 F(s) 59.8 (s) 0.0 (s) 56.9 F371.6 F142.5 F5 2009 72.7 70.1 14.0 2.6 4.9 9.3 32.6 63.3 F(s) 53.1 (s) 0.0 (s) 58.5 F317.8 F127.7 F4 2011 70.3 75.3 14.5 2.6 4.8 6.4 32.8 61.2 F(s) 51.3 (s) 0.0 (s) 58.5 F317.8 F127.7 F4 2012 67.6 82.7 16.3 2.6 4.9 5.4 29.6 58.7 F(s) 51.7 (s) 0.0 (s) 58.7 F316.8 F123.6 F4 2013 64.6 87.5 17.0 3.1 5.1 3.5 25.4 54.1 (s) 55.8 (s) 0.0 (s) 58.5 320.6 F120.8 F4 2014 58.4 92.3 17.8 3.5 4.9 1.7 25.5 53.5 F(s) 60.0 2.0 0.0 (s) 60.4 326.6 F123.7 F4 2015 47.5 99.0 15.4 3.8 3.8 3.8 2.0 30.7 55.6 F(s) 63.3 2.3 0.0 (s) 59.8 F327.6 F118.3 F4 2017 43.0 106.2 15.0 3.2 3.8 0.7 F31.7 F34.3 (s) 63.1 2.8 0.0 (s) 58.6 F328.0 F118.3 F4 2017 43.0 106.2 15.0 3.2 3.8 0.7 F31.7 F34.3 (s) 62.0 2.4 0.0 (s) 60.5 F38.2 F103.4 F4 2019 42.1 112.8 15.6 2.5 3.8 1.6 F30.0 F33.6 (s) 58.5 0.1 0.0 (s) 59.6 F33.8 F116.0 F4 2020 35.3 116.6 12.4 2.4 3.9 0.4 F26.7 F45.7 (s) 58.5 (s) 0.0 (s) 58.5 17.0 (s) 59.6 F33.6 F118.0 F4 2020 35.3 116.6 12.4 2.4 3.9 0.4 F26.7 F45.7 (s) 58.5 (s) 0.0 (s) 58.5 17.0 (s) 59.6 F33.6 F118.0 F4 2021 36.5 125.1 15.2 3.9 3.8 0.8 F32.7 (s) 58.5 0.1 0.0 (s) 59.6 F33.6 F118.0 F4 2021 36.5 125.1 15.2 3.9 3.8 0.8 F32.7 (s) 58.5 0.1 0.0 (s) 59.6 F33.6 F118.0 F4 2021 36.5 125.1 15.2 3.9 3.8 0.8 F32.7 (s) 58.5 0.1 0.0 (s) 59.6 F33.6 F118.0 F4 2021 36.5 125.1 15.2 3.9 3.8 0.8 F32.7 (s) 58.5 (s) 58.5 0.1 0.0 (s) 59.6 F33.6 F118.0 F4 2021 36.5 125.1 15.2 3.9 3.8 0.8 F32.7 (s) 58.8 F32.7 (s) 58.5 0.1 0.0 (s) 59.6 F33.6 F118.0 F4 2021 36.5 125.1 15.2 3.9 3.8 0.8 F32.7 (s) 58.8 F32.7 (s) 58.5 0.1 0.0 (s) 59.6 F33.6 F118.0 F4 2021 36.5 125.1 15.2 3.9 3.8 0.8 F32.7 (s) 58.8 F32.7 (s) 58.5 0.1 0.0 (s) 59.6 F33.6 F118.0 F4 2021 36.5	2005	86.9	79.7	41.3	4.3	8.5	15.1	42.1	111.4			(s)	0.0	(s)	66.0	417.5	R 151 6	R 569.0
2008 81.8 69.6 39.3 2.2 4.2 12.6 33.6 92.0 % (s) 65.3 (s) 0.0 (s) 62.9 % 371.6 % 142.5 % 52009 64.3 65.4 18.0 2.2 4.1 10.2 34.5 69.1 % (s) 59.8 (s) 0.0 (s) 56.9 % 371.5 % 142.4 % 4 2010 72.7 70.1 14.0 2.6 4.9 9.3 32.6 63.3 % (s) 53.1 (s) 0.0 (s) 58.5 % 317.8 % 127.7 % 4 2011 70.3 75.3 14.5 2.6 4.8 64.4 32.8 61.2 % (s) 51.3 (s) 0.0 (s) 58.7 % 316.8 % 123.6 % 4 2012 67.6 82.7 16.3 2.6 4.9 5.4 29.6 58.7 % (s) 51.3 (s) 0.0 (s) 58.7 % 316.8 % 123.6 % 4 2013 64.6 87.5 17.0 3.1 5.1 3.5 25.4 54.1 (s) 55.8 (s) 0.0 (s) 58.5 320.6 % 120.8 % 4 2014 58.4 92.3 17.8 3.5 4.9 1.7 25.5 53.5 % (s) 55.8 (s) 0.0 (s) 58.5 320.6 % 120.8 % 4 2015 47.5 99.0 15.4 3.8 3.8 3.8 2.0 30.7 55.6 % (s) 60.0 2.0 0.0 (s) 69.4 326.6 % 123.7 % 4 2016 45.7 100.1 16.3 3.4 3.7 2.2 29.7 55.3 % (s) 63.3 2.3 0.0 (s) 59.8 % 327.6 % 118.3 % 4 2017 43.0 106.2 15.0 3.2 3.8 0.7 % 31.7 % 54.3 % (s) 63.1 2.8 0.0 (s) 58.6 % 328.0 % 117.5 % 2018 43.0 109.2 14.6 3.1 3.8 0.3 % 2.2 % 51.0 (s) 62.0 2.4 0.0 (s) 60.5 \$8.28 .0 % 10.6 % 322.1 % 10.9 % 10.								43.5		H (s)	69.9			(s)		396.7	H 147.8	R 544.5 R 541.0
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) 56.9 315.5 R 124.8 R 4 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 4 2011 70.3 75.3 14.5 2.6 4.8 6.4 92.8 61.2 R (s) 51.3 (s) 0.0 (s) 58.7 R 316.8 R 123.6 R 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) 59.1 319.9 R 120.8 R 4 2014 58.4 92.3 17.8 3.5 4.9 11.7 25.5 53.5 R (s) 60.0 2.0 0.0 (s) 58.5 320.6 R 122.8 R 4 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 4 2016 45.7 100.1 16.3 3.4 3.7 2.2 29.7 55.3 R (s) 63.3 2.3 0.0 (s) 59.8 R 327.6 R 118.3 R 4 2017 43.0 106.2 15.0 3.2 3.8 0.7 R 131.7 R 54.3 (s) 63.1 2.8 0.0 (s) 58.4 0.0 (s) 58.6 R 328.0 R 107.8 R 120.9 42.1 112.8 15.6 2.5 3.8 1.6 R 30.0 R 53.6 (s) 58.5 0.1 0.0 (s) 59.6 R 339.6 R 110.8 R 4 2019 42.1 112.8 15.6 2.5 3.8 1.6 R 30.0 R 58.8 R 52.7 (s) 58.5 0.1 0.0 (s) 59.6 R 339.8 R 110.0 R 4 2020 35.5 116.6 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 339.8 R 110.0 R 4 2021 36.5 125.1 15.2 3.9 3.8 0.8 R 26.7 R 45.7 (s) 58.5 0.1 0.0 (s) 59.6 R 339.8 R 110.0 R 4 2021 36.5 125.1 15.2 3.9 3.8 0.8 R 26.7 R 45.7 (s) 58.5 0.1 0.0 (s) 59.6 R 335.8 R 110.0 R 4 2021 36.5 125.1 15.2 3.9 3.8 0.8 R 26.7 R 45.7 (s) 58.5 0.1 0.0 (s) 59.6 R 315.8 R 198.6 R 4 2021 36.5 125.1 15.2 3.9 3.8 0.8 R 26.7 R 45.7 (s) 58.5 0.1 0.0 (s) 59.6 R 315.8 R 1910.0 R 4 2021 36.5 125.1 15.2 3.9 3.8 0.8 R 26.7 R 45.7 (s) 58.5 0.1 0.0 (s) 59.6 R 315.8 R 1910.0 R 4 2021 36.5 125.1 15.2 3.9 3.8 0.8 R 26.7 R 45.7 (s) 58.5 0.1 0.0 (s) 59.6 R 315.8 R 1910.0 R 4 2021 36.5 125.1 15.2 3.9 3.8 0.8 R 26.7 R 45.7 (s) 58.5 0.1 0.0 (s) 59.6 R 315.8 R 1910.0 R 4 2021 36.5 125.1 15.2 3.9 3.8 0.8 R 26.7 R 45.7 (s) 58.5 0.1 0.0 (s) 59.6 R 315.8 R 1910.0 R 4 2021 36.5 125.1 15.2 3.9 3.8 0.8 R 26.7 R 45.7 (s) 58.5 0.1 0.0 (s) 58.5 0.0 (s) 59.6 R 315.8 R 1910.0 R 4 2021 36.5 125.1 15.2 3.9 3.8 0.8 R 26.7 R 45.7 (s) 58.8 R 52.7 (s) 58.5 0.1 0.0 (s) 59.6 R 315.8 R 1910.0 R 4 2021 36.5 125.1 15.2 3.9 3.8 0.8 R 26.7 R 45.7 (s) 58.8 R 52.								41.7	102.3	B ) (	CE O	(S)		(s)	64.b	R 271 6	1 146.6 R 142.5	R 514.1
2010 72.7 70.1 14.0 2.6 4.9 9.3 32.6 63.3 P(s) 53.1 (s) 0.0 (s) 58.5 P317.8 P127.7 P4 2011 70.3 75.3 14.5 2.6 4.8 6.4 32.8 61.2 P(s) 51.3 (s) 0.0 (s) 58.7 P316.8 P123.6 P4 2012 67.6 82.7 16.3 2.6 4.9 5.4 29.6 58.7 P(s) 51.7 (s) 0.0 (s) 59.1 319.9 P120.8 P4 2013 64.6 87.5 17.0 3.1 5.1 3.5 25.4 54.1 (s) 55.8 (s) 0.0 (s) 58.5 320.6 P120.8 P4 2014 58.4 92.3 17.8 3.5 4.9 1.7 25.5 53.5 P(s) 60.0 2.0 0.0 (s) 60.4 326.6 P123.7 P4 2015 47.5 99.0 15.4 3.8 3.8 3.8 2.0 30.7 55.6 P(s) 63.3 2.3 0.0 (s) 59.8 P327.6 P118.3 P4 2016 45.7 100.1 16.3 3.4 3.7 2.2 29.7 55.3 P(s) 63.3 2.3 0.0 (s) 59.8 P327.6 P118.3 P4 2017 43.0 106.2 15.0 3.2 3.8 0.7 P31.7 P54.3 (s) 63.1 2.8 0.0 (s) 58.6 P328.0 P110.6 P4 2018 43.0 106.2 15.0 3.2 3.8 0.7 P31.7 P54.3 (s) 63.1 2.8 0.0 (s) 58.6 P328.0 P107.6 P4 2019 42.1 112.8 15.6 2.5 3.8 1.6 P30.0 P53.6 (s) 58.5 0.1 0.0 (s) 59.6 P315.8 P38.7 P315.8 P316.8 P4 2020 35.3 116.6 12.4 2.4 3.9 0.4 P26.7 P45.7 (s) 58.5 0.1 0.0 (s) 59.6 P315.8 P315.8 P316.8 P4 2021 36.5 125.1 15.2 3.9 3.8 0.8 P28.8 P52.7 (s) 58.5 0.1 0.0 (s) 59.6 P315.8 P315.8 P316.8 P4 2021 36.5 125.1 15.2 3.9 3.8 0.8 P28.8 P52.7 (s) 58.1 (s) 0.0 (s) 67.3 P315.8 P3110.0 P4 2021 36.5 125.1 15.2 3.9 3.8 0.8 P28.8 P52.7 (s) 58.1 (s) 0.0 (s) 67.3 P315.8 P111.0 P4 2021 36.5 125.1 15.2 1.9 P3.8 P316.8 P32.7 (s) 58.1 (s) 0.0 (s) 67.3 P315.8 P316.8 P3		64.3			2.2			34.5	69.1	R /s/	59.8	(s)		(s)	56.9	315.5	R 124.8	R 440.3
2012 67.6 82.7 16.3 2.6 4.9 5.4 29.6 58.7 18.5 51.7 (s) 0.0 (s) 59.1 319.9 120.8 14.2 120.3 14.6 87.5 17.0 3.1 5.1 3.5 25.4 54.1 (s) 55.8 (s) 0.0 (s) 58.5 320.6 120.8 14.2 14.5 99.0 15.4 3.8 3.5 4.9 1.7 25.5 53.5 18.6 18.3 12.3 0.0 (s) 59.8 18.2 12.3 17.8 18.3 18.4 18.4 18.3 18.4 18.3 18.4 18.4 18.4 18.4 18.4 18.4 18.4 18.4	2010	72.7	70.1	14.0	2.6	4.9	9.3	32.6	63.3				0.0	(s)	58.5	H 317.8	R 127.7	H 445.5
2013 64.6 87.5 17.0 3.1 5.1 3.5 25.4 54.1 (s) 55.8 (s) 0.0 (s) 58.5 320.6 H120.8 H4 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) 60.4 326.6 R123.7 R4 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 R327.6 R118.3 R4 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) 60.2 320.8 R115.2 R4 2017 43.0 106.2 15.0 3.2 3.8 0.7 R31.7 R54.3 (s) 63.1 2.8 0.0 (s) 58.6 R328.0 R107.6 R4 2018 43.0 109.2 14.6 3.1 3.8 0.3 R29.2 R51.0 (s) 62.0 2.4 0.0 (s) 58.6 R328.0 R107.6 R4 2019 42.1 112.8 15.6 2.5 3.8 1.6 R30.0 R53.6 (s) 58.4 0.2 0.0 (s) 60.0 R327.1 R103.4 R4 2020 35.3 116.6 12.4 2.4 3.9 0.4 R26.7 R45.7 (s) 58.5 0.1 0.0 (s) 59.6 R315.8 R98.6 R4 2021 36.5 125.1 15.2 3.9 3.8 0.8 R28.8 R52.7 (s) 58.1 (s) 0.0 (s) 67.3 R339.6 R1110.0			75.3	14.5				32.8	61.2	R <sub>(s)</sub>	51.3			(s)	58.7	H 316.8	R 123.6	R 440.4
2014 58.4 92.3 17.8 3.5 4.9 1.7 25.5 53.5 7(s) 60.0 2.0 0.0 (s) 60.4 326.6 7123.7 7.4 2015 47.5 99.0 15.4 3.8 3.8 2.0 30.7 55.6 7(s) 63.3 2.3 0.0 (s) 59.8 7327.6 7131.8 7.4 2016 45.7 100.1 16.3 3.4 3.7 2.2 29.7 55.3 7(s) 58.2 1.3 0.0 (s) 59.8 7327.6 7131.8 7.4 2017 43.0 106.2 15.0 3.2 3.8 0.7 731.7 75.3 (s) 63.1 2.8 0.0 (s) 58.6 7328.0 7105.2 71.0 71.0 71.0 71.0 71.0 71.0 71.0 71.0								29.6	58.7			(s)		(s)			1120.8 R 120.9	R 440.7 R 441.4
2017 43.0 106.2 15.0 3.2 3.8 0.7 131.7 154.3 (s) 63.1 2.8 0.0 (s) 58.6 1328.0 1107.6 14.0 14.1 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15			97.5 92.3				17	25.4 25.5	53.5	R /₂(	00.0	(S)		(S)	58.5 60.4	320.6	R 120.8	R 450 3
2017 43.0 106.2 15.0 3.2 3.8 0.7 131.7 154.3 (s) 63.1 2.8 0.0 (s) 58.6 1328.0 1107.6 14.0 14.1 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15	2015	47.5	99.0	15.4	3.8	3.8	2.0	30.7	55.6		63.3	2.3	0.0	(s)	59.8	R 327.6	R 118.3	H 445.9
2018 43.0 109.2 14.6 3.1 3.8 0.3 129.2 151.0 (s) 62.0 2.4 0.0 (s) 60.5 1328.2 1108.9 4 2019 42.1 112.8 15.6 2.5 3.8 1.6 16.8 30.0 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	2016	45.7	100.1	16.3	3.4	3.7	2.2	29 7	55.3	H (s)	58.2	1.3	0.0	(s)	60.2	320.8	H 115 2	H 436 0
2019 42.1 112.8 15.6 2.5 3.8 1.6 430.0 453.6 (s) 58.4 0.2 0.0 (s) 60.0 4327.1 4103.4 4 2020 35.3 116.6 12.4 2.4 3.9 0.4 826.7 845.7 (s) 58.5 0.1 0.0 (s) 59.6 8315.8 898.6 84 2021 36.5 125.1 15.2 3.9 3.8 0.8 828.8 852.7 (s) 58.1 (s) 0.0 (s) 67.3 8399.6 8111.0 84								<sup>n</sup> 31.7	D 54.3			2.8		(s)	58.6	n 328.0	n 107.6	R 435.6 R 437.1
2020 35.3 116.6 12.4 2.4 3.9 0.4 R26.7 R45.7 (s) 58.5 0.1 0.0 (s) 59.6 R315.8 R98.6 R4 2021 36.5 125.1 15.2 3.9 3.8 0.8 R28.8 R52.7 (s) 58.1 (s) 0.0 (s) 67.3 R339.6 R111.0 R4								R 30 0	R 53 6					(S)		H 227 1	R 103 4	H 430 5
2021 36.5 125.1 15.2 3.9 3.8 0.8 °28.8 °52.7 (s) 58.1 (s) 0.0 (s) 67.3 °339.6 °111.0 °4	2020	35.3	116.6	12.4	2.4	3.9	0.4	R 26.7	R 45.7	(s)	58.5		0.0	(s)	59.6	R 315.8	R 98.6	R 414.3 R 450.6
9099 $99.7$ 110.9 15.4 5.0 4.0 0.0 90.0 56.0 (a) 56.0 (b) 0.0 (c) 57.5 000.0 00.5 (d)	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	⊓ 339.6	R 111.0	R 450.6
2022 55.1 113.0 15.4 5.0 4.0 0.9 50.6 50.0 (8) 50.9 (8) 0.0 (S) 57.5 323.9 93.5 4	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.

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.

Incurred in the generation, transmission, and distribution of électricity 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/

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.

<sup>&</sup>lt;sup>e</sup> 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.

<sup>9</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

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

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

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