

Table E3. Primary Energy Consumption by Source, Fossil Fuel Equivalency Approach
(Quadrillion Btu)

| | Fossil Fuels ^a | | | | Nuclear Electric Power | Renewable Energy ^b | | | | | | Total ^g |
|-------------------------|---------------------------|--------------------------|------------------------|--------------------|------------------------|----------------------------------|-------------|-------|-------|----------|--------|--------------------|
| | Coal | Natural Gas ^c | Petroleum ^d | Total ^e | | Hydroelectric Power ^f | Geo-thermal | Solar | Wind | Bio-mass | Total | |
| 1950 Total | 12.347 | 5.968 | 13.298 | 31.615 | 0.000 | 1.415 | NA | NA | NA | 1.562 | 2.978 | 34.599 |
| 1955 Total | 11.167 | 8.998 | 17.225 | 37.380 | .000 | 1.360 | NA | NA | NA | 1.424 | 2.784 | 40.178 |
| 1960 Total | 9.838 | 12.385 | 19.874 | 42.091 | .006 | 1.608 | (s) | NA | NA | 1.320 | 2.928 | 45.041 |
| 1965 Total | 11.581 | 15.769 | 23.184 | 50.515 | .043 | 2.059 | .002 | NA | NA | 1.335 | 3.396 | 53.953 |
| 1970 Total | 12.265 | 21.795 | 29.499 | 63.501 | .239 | 2.634 | .006 | NA | NA | 1.431 | 4.070 | 67.817 |
| 1975 Total | 12.663 | 19.948 | 32.699 | 65.323 | 1.900 | 3.155 | .034 | NA | NA | 1.499 | 4.687 | 71.931 |
| 1980 Total | 15.423 | 20.235 | 34.159 | 69.782 | 2.739 | 2.900 | .053 | NA | NA | 2.475 | 5.428 | 78.021 |
| 1985 Total | 17.478 | 17.703 | 30.866 | 66.035 | 4.076 | 2.970 | .097 | (s) | (s) | 3.016 | 6.084 | 76.334 |
| 1990 Total | 19.173 | 19.603 | 33.500 | 72.281 | 6.104 | 3.046 | .171 | .059 | .029 | 2.735 | 6.040 | 84.433 |
| 1995 Total | 20.089 | 22.671 | 34.341 | 77.162 | 7.075 | 3.205 | .152 | .068 | .033 | 3.101 | 6.559 | 90.931 |
| 2000 Total | 22.580 | 23.824 | 38.152 | 84.620 | 7.862 | 2.811 | .164 | .063 | .057 | 3.008 | 6.104 | 98.702 |
| 2005 Total | 22.797 | 22.565 | 40.217 | 85.623 | 8.161 | 2.703 | .181 | .058 | .178 | 3.114 | 6.233 | 100.101 |
| 2010 Total | 20.834 | 24.575 | 35.321 | 80.723 | 8.434 | 2.539 | .208 | .090 | .923 | 4.506 | 8.266 | 97.512 |
| 2011 Total | 19.658 | 24.955 | 34.639 | 79.263 | 8.269 | 3.103 | .212 | .110 | 1.168 | 4.616 | 9.210 | 96.868 |
| 2012 Total | 17.378 | 26.089 | 33.833 | 77.304 | 8.062 | 2.629 | .212 | .156 | 1.340 | 4.517 | 8.853 | 94.380 |
| 2013 Total | 18.039 | 26.805 | 34.398 | 79.224 | 8.244 | 2.562 | .214 | .225 | 1.601 | 4.861 | 9.464 | 97.130 |
| 2014 Total | 17.998 | 27.383 | 34.658 | 80.017 | 8.338 | 2.466 | .214 | .337 | 1.727 | 5.013 | 9.758 | 98.294 |
| 2015 Total | 15.549 | 28.191 | 35.368 | 79.090 | 8.337 | 2.320 | .212 | .427 | 1.776 | 5.008 | 9.743 | 97.398 |
| 2016 Total | 14.226 | 28.400 | 35.712 | 78.319 | 8.427 | 2.471 | .210 | .570 | 2.095 | 5.053 | 10.399 | 97.371 |
| 2017 Total | 13.837 | 28.055 | 36.043 | 77.907 | 8.419 | 2.765 | .210 | .777 | 2.342 | 5.035 | 11.128 | 97.647 |
| 2018 Total | 13.252 | 31.163 | 36.892 | 81.281 | 8.438 | 2.661 | .209 | .915 | 2.481 | 5.094 | 11.360 | 101.230 |
| 2019 Total | 11.316 | 32.264 | 36.866 | 80.425 | 8.452 | 2.562 | .201 | 1.016 | 2.633 | 5.046 | 11.458 | 100.468 |
| 2020 Total | 9.181 | 31.669 | 32.331 | 73.169 | 8.251 | 2.501 | .203 | 1.211 | 2.963 | 4.535 | 11.413 | 92.994 |
| 2021 Total | 10.549 | 31.711 | 35.243 | 77.454 | 8.131 | 2.225 | .205 | 1.520 | 3.345 | 4.740 | 12.035 | 97.754 |
| 2022 January | 1.008 | R 3.705 | 2.915 | R 7.623 | .737 | .213 | .018 | .102 | .330 | .403 | 1.067 | R 9.437 |
| February | .838 | R 3.157 | 2.726 | R 6.719 | .646 | .188 | .016 | .116 | .332 | .369 | 1.021 | R 8.392 |
| March | .733 | R 2.876 | 3.063 | R 6.666 | .660 | .215 | .017 | .154 | .379 | .411 | 1.176 | R 8.509 |
| April | .663 | R 2.437 | 2.858 | R 5.952 | .578 | .177 | .017 | .174 | .407 | .392 | 1.167 | R 7.705 |
| May | .745 | R 2.314 | 2.982 | R 6.032 | .662 | .206 | .017 | .195 | .371 | .411 | 1.200 | 7.904 |
| June | .870 | R 2.394 | 2.967 | R 6.227 | .687 | .229 | .016 | .203 | .298 | .413 | 1.159 | 8.088 |
| July | 1.018 | R 2.676 | 2.986 | R 6.675 | .719 | .217 | .017 | .202 | .260 | .414 | 1.110 | R 8.523 |
| August | .997 | R 2.653 | 3.064 | R 6.709 | .720 | .186 | .017 | .189 | .218 | .420 | 1.030 | 8.479 |
| September | .783 | 2.370 | 2.943 | 6.091 | .666 | .150 | .017 | .172 | .241 | .386 | .966 | 7.736 |
| October | .673 | 2.441 | 2.999 | 6.110 | .616 | .127 | .017 | .155 | .289 | .412 | .999 | 7.734 |
| November | .690 | 2.862 | 2.931 | R 6.481 | .648 | .158 | .018 | .114 | .363 | .406 | 1.058 | 8.196 |
| December | .871 | 3.494 | 2.884 | R 7.244 | .722 | .180 | .018 | .096 | .341 | .408 | 1.044 | 9.023 |
| Total | 9.888 | 33.379 | 35.319 | 78.529 | 8.061 | 2.245 | .205 | 1.872 | 3.827 | 4.847 | 12.997 | 99.728 |
| 2023 January | .750 | R 3.428 | 2.868 | R 7.043 | .741 | .196 | .018 | .105 | .331 | .415 | 1.065 | R 8.859 |
| February | .582 | R 3.057 | 2.678 | R 6.315 | .636 | .172 | .016 | .123 | .357 | .373 | 1.042 | R 7.999 |
| March | .620 | R 3.129 | 3.006 | R 6.753 | .657 | .184 | .018 | .163 | .376 | .421 | 1.161 | R 8.580 |
| April | .500 | R 2.499 | 2.878 | R 5.875 | .592 | .171 | .017 | .194 | .369 | .392 | 1.143 | R 7.617 |
| May | .550 | R 2.386 | 3.014 | R 5.948 | .639 | .239 | .017 | .221 | .278 | .430 | 1.185 | R 7.781 |
| June | .705 | R 2.445 | 2.991 | R 6.138 | .677 | .186 | .016 | .224 | .238 | .418 | 1.083 | R 7.904 |
| July | .913 | R 2.760 | 2.975 | R 6.645 | .730 | .190 | .017 | .237 | .242 | .420 | 1.104 | R 8.483 |
| August | .903 | R 2.773 | 3.108 | R 6.781 | .729 | .184 | .016 | .225 | .245 | .433 | 1.102 | R 8.617 |
| September | .716 | R 2.464 | 2.911 | R 6.087 | .685 | .146 | .017 | .197 | .245 | .410 | 1.015 | R 7.787 |
| October | .628 | R 2.523 | 3.067 | R 6.216 | .642 | .135 | .018 | .180 | .311 | .424 | 1.067 | R 7.926 |
| November | .629 | R 2.920 | 2.978 | R 6.525 | .651 | .147 | .018 | .137 | .315 | .413 | 1.029 | R 8.207 |
| December | .676 | R 3.300 | 2.975 | R 6.946 | .720 | .164 | .018 | .121 | .328 | .437 | 1.069 | R 8.739 |
| Total | 8.172 | 33.683 | 35.448 | 77.271 | 8.099 | 2.114 | .205 | 2.127 | 3.634 | 4.984 | 13.065 | 98.499 |
| 2024 January | .876 | R 3.828 | 2.885 | R 7.588 | .722 | .189 | .018 | .129 | .301 | .406 | 1.043 | R 9.359 |
| February | .559 | R 3.071 | 2.728 | R 6.356 | .675 | .173 | .016 | .158 | .358 | .397 | 1.103 | R 8.135 |
| March | .490 | R 2.892 | 2.924 | R 6.301 | .662 | .201 | .016 | .203 | .393 | .422 | 1.236 | R 8.198 |
| April | .467 | R 2.474 | 2.875 | R 5.811 | .602 | .167 | .017 | .239 | .408 | .401 | 1.232 | R 7.643 |
| May | .560 | R 2.410 | 3.079 | R 6.046 | .679 | .195 | .016 | .272 | .333 | .428 | 1.244 | R 7.970 |
| June | .718 | R 2.511 | 2.901 | R 6.125 | .713 | .183 | .016 | .290 | .328 | .412 | 1.229 | R 8.072 |
| July | .833 | R 2.836 | 3.051 | R 6.717 | .730 | .183 | .017 | .291 | .241 | .437 | 1.169 | R 8.627 |
| August | .814 | R 2.808 | 3.067 | R 6.685 | .729 | .184 | .017 | .286 | .248 | .434 | 1.170 | R 8.594 |
| September | .663 | R 2.505 | 2.893 | R 6.057 | .655 | .144 | .016 | .245 | .249 | .414 | 1.068 | R 7.787 |
| October | .588 | 2.514 | 3.091 | 6.191 | .611 | .137 | .016 | .232 | .345 | .427 | 1.157 | 7.965 |
| 10-Month Total ... | 6.565 | 27.848 | 29.494 | 63.879 | 6.779 | 1.756 | .165 | 2.345 | 3.203 | 4.180 | 11.650 | 82.350 |
| 2023 10-Month Total ... | 6.867 | 27.463 | 29.495 | 63.800 | 6.729 | 1.803 | .169 | 1.869 | 2.992 | 4.134 | 10.967 | 81.553 |
| 2022 10-Month Total ... | 8.327 | 27.022 | 29.503 | 64.805 | 6.691 | 1.908 | .169 | 1.662 | 3.123 | 4.032 | 10.895 | 82.509 |

^a Includes non-combustion use of fossil fuels.
^b Most data are estimates. See Table E4 for notes on series components and estimation.
^c Natural gas only; excludes supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
^d Petroleum products supplied; excludes biofuels. Biofuels are included in "Biomass."
^e Includes coal coke net imports. See Tables 1.4c.
^f Conventional hydroelectric power.
^g Includes coal coke net imports and electricity net imports, which are not separately displayed. See Tables 1.4c.
R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • See "Primary Energy Consumption" in Glossary.
• See Table D1 for estimated energy consumption for 1635–1945. • Totals may not equal sum of components due to independent rounding.
• Geographic coverage is the 50 states and the District of Columbia.
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#appendices> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.
Sources: • **Fossil Fuels** and **Nuclear Electric Power:** Table 1.3. • **Renewable Energy:** Table E4. • **Total:** Calculated as the sum of Fossil Fuels, Nuclear Electric Power, Renewable Energy, and Electricity Net Imports (see Table 1.4c).