

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

| Year | Coal Thousand short tons | Natural gas ^a Billion cubic feet | Petroleum | | | | | | | Nuclear electric power Million kilowatthours | Hydro-electric power ^g Million kilowatthours | Wind Million kilowatthours | Fuel ethanol ^h Thousand barrels | Biodiesel Thousand barrels |
|------|-----------------------------|--|----------------------------------|------------------|-----------------------|-----------------------------|-------------------|--------------------|-----------|---|--|-------------------------------|---|-------------------------------|
| | | | Distillate fuel oil ^b | HGL ^c | Jet fuel ^d | Motor gasoline ^e | Residual fuel oil | Other ^f | Total | | | | | |
| | | | Thousand barrels | | | | | | | | | | | |
| 1960 | 25,930 | 370 | 30,235 | 2,827 | 3,369 | 65,782 | 11,840 | 14,867 | 128,920 | 0 | 2,030 | 0 | NA | NA |
| 1965 | 33,132 | 556 | 30,287 | 3,716 | 4,377 | 78,044 | 8,594 | 19,635 | 144,653 | 181 | 1,813 | 0 | NA | NA |
| 1970 | 34,065 | 809 | 38,141 | 6,202 | 7,365 | 96,831 | 10,056 | 16,357 | 174,952 | 375 | 1,704 | 0 | NA | NA |
| 1971 | 34,556 | 851 | 41,724 | 6,755 | 7,195 | 99,540 | 11,173 | 15,051 | 181,438 | 388 | 1,776 | 0 | NA | NA |
| 1972 | 34,666 | 865 | 47,365 | 7,993 | 6,905 | 105,198 | 13,078 | 15,855 | 196,393 | 2,125 | 1,793 | 0 | NA | NA |
| 1973 | 32,632 | 920 | 46,932 | 8,092 | 6,959 | 110,100 | 15,822 | 16,879 | 204,784 | 2,980 | 1,054 | 0 | NA | NA |
| 1974 | 29,804 | 936 | 43,673 | 7,845 | 6,460 | 107,057 | 16,692 | 15,629 | 197,356 | 416 | 1,182 | 0 | NA | NA |
| 1975 | 31,198 | 884 | 42,170 | 7,475 | 5,776 | 108,255 | 18,291 | 14,433 | 196,401 | 7,176 | 1,110 | 0 | NA | NA |
| 1976 | 29,763 | 888 | 44,130 | 8,748 | 5,735 | 113,506 | 21,102 | 15,547 | 208,766 | 9,901 | 1,050 | 0 | NA | NA |
| 1977 | 28,926 | 741 | 44,829 | 8,793 | 6,290 | 114,812 | 22,126 | 16,669 | 213,518 | 10,231 | 931 | 0 | NA | NA |
| 1978 | 28,519 | 790 | 45,149 | 9,051 | 6,499 | 117,526 | 25,452 | 17,534 | 221,211 | 13,104 | 1,085 | 0 | NA | NA |
| 1979 | 31,570 | 876 | 31,268 | 7,515 | 6,639 | 108,261 | 19,046 | 17,226 | 189,955 | 15,139 | 1,306 | 0 | NA | NA |
| 1980 | 31,110 | 865 | 27,643 | 6,736 | 6,646 | 97,025 | 13,289 | 15,192 | 166,531 | 15,891 | 1,200 | 0 | NA | NA |
| 1981 | 31,610 | 801 | 26,630 | 5,572 | 6,131 | 92,783 | 7,825 | 11,720 | 150,661 | 17,066 | 1,240 | 0 | 184 | NA |
| 1982 | 29,280 | 748 | 22,943 | 7,107 | 5,706 | 88,179 | 4,891 | 9,969 | 138,795 | 15,003 | 1,211 | 0 | 491 | NA |
| 1983 | 29,647 | 696 | 22,176 | 7,150 | 5,892 | 88,646 | 4,464 | 10,797 | 139,125 | 16,383 | 1,229 | 0 | 1,316 | NA |
| 1984 | 31,412 | 718 | 24,913 | 7,523 | 5,983 | 92,952 | 3,116 | 11,298 | 145,785 | 14,078 | 1,071 | 0 | 1,295 | NA |
| 1985 | 32,793 | 709 | 26,024 | 14,225 | 6,570 | 93,447 | 3,109 | 10,387 | 153,761 | 13,452 | 997 | 0 | 1,032 | NA |
| 1986 | 33,999 | 671 | 26,989 | 15,690 | 7,129 | 96,015 | 3,761 | 10,886 | 160,470 | 12,257 | 721 | 0 | 830 | NA |
| 1987 | 35,865 | 657 | 26,614 | 17,656 | 8,371 | 99,154 | 3,316 | 11,802 | 166,913 | 14,389 | 481 | 0 | 1,176 | NA |
| 1988 | 35,332 | 749 | 28,392 | 17,302 | 8,585 | 102,367 | 4,793 | 11,118 | 172,559 | 17,808 | 600 | 0 | 1,214 | NA |
| 1989 | 34,885 | 777 | 26,202 | 19,053 | 9,235 | 101,143 | 4,497 | 12,757 | 172,888 | 21,312 | 749 | 0 | 1,164 | NA |
| 1990 | 34,817 | 879 | 24,357 | 14,901 | 10,057 | 100,573 | 2,728 | 12,598 | 164,553 | 21,611 | 1,628 | 0 | 1,205 | NA |
| 1991 | 34,086 | 888 | 24,820 | 16,017 | 10,234 | 101,375 | 1,745 | 11,413 | 165,604 | 27,021 | 1,752 | 0 | 1,582 | NA |
| 1992 | 31,781 | 960 | 24,830 | 16,666 | 10,125 | 101,370 | 1,696 | 11,637 | 166,325 | 18,849 | 1,782 | 0 | 1,367 | NA |
| 1993 | 32,445 | 919 | 28,123 | 13,077 | 10,305 | 105,003 | 2,081 | 12,647 | 171,235 | 28,525 | 1,762 | 0 | 1,609 | NA |
| 1994 | 35,902 | 912 | 27,536 | 14,287 | 10,281 | 105,744 | 2,172 | 12,125 | 172,145 | 14,144 | 1,660 | 0 | 1,859 | NA |
| 1995 | 36,037 | 976 | 27,444 | 14,497 | 8,818 | 110,546 | 1,602 | 13,400 | 176,308 | 24,448 | 1,597 | 0 | 1,219 | NA |
| 1996 | 36,958 | 1,027 | 28,754 | 18,306 | 9,045 | 110,520 | 1,777 | 12,651 | 181,052 | 26,829 | 1,784 | 0 | 514 | NA |
| 1997 | 36,116 | 994 | 29,692 | 14,524 | 9,487 | 112,389 | 1,553 | 16,765 | 184,411 | 21,914 | 1,712 | 0 | 654 | NA |
| 1998 | 38,255 | 876 | 29,895 | 13,108 | 9,033 | 114,913 | 2,113 | 16,007 | 185,069 | 12,494 | 1,397 | 0 | 845 | NA |
| 1999 | 38,510 | 951 | 31,573 | 15,339 | 9,116 | 121,027 | 2,491 | 16,161 | 195,707 | 14,591 | 1,458 | 0 | 956 | NA |
| 2000 | 37,294 | 963 | 30,824 | 16,308 | 7,214 | 118,160 | 2,358 | 14,351 | 189,214 | 18,882 | 1,428 | 0 | 2,267 | NA |
| 2001 | 37,730 | 906 | 29,515 | 18,876 | 6,219 | 119,472 | 1,590 | 12,139 | 187,811 | 26,711 | 1,562 | (s) | 1,394 | 6 |
| 2002 | 36,413 | 966 | 28,994 | 21,039 | 6,016 | 121,745 | 1,992 | 12,019 | 191,806 | 31,087 | 1,669 | (s) | 2,953 | 9 |
| 2003 | 36,973 | 925 | 30,344 | 20,578 | 2,695 | 119,019 | 2,153 | 12,800 | 187,589 | 27,954 | 1,386 | 3 | 3,706 | 8 |
| 2004 | 38,503 | 917 | 31,139 | 20,826 | 3,733 | 118,967 | 2,098 | 13,051 | 189,815 | 30,562 | 1,540 | 2 | 3,838 | 15 |
| 2005 | 39,442 | 914 | 30,315 | 23,157 | 3,431 | 119,584 | 2,209 | 12,715 | 191,411 | 32,872 | 1,462 | 2 | 5,091 | 52 |
| 2006 | 38,067 | 803 | 29,929 | 15,036 | 4,124 | 118,106 | 1,201 | 11,595 | 179,992 | 29,066 | 1,520 | 2 | 5,558 | 149 |
| 2007 | 39,669 | 798 | 29,371 | 16,217 | 5,270 | 116,059 | 1,783 | 12,056 | 180,757 | 31,517 | 1,270 | 3 | 6,573 | 202 |
| 2008 | 39,870 | 780 | 26,713 | 12,506 | 4,641 | 111,410 | 1,471 | 9,975 | 166,715 | 31,484 | 1,364 | 141 | 9,010 | 174 |
| 2009 | 37,425 | 735 | 25,622 | 11,829 | 4,270 | 109,703 | 615 | 9,839 | 161,879 | 21,851 | 1,372 | 300 | 10,205 | 184 |
| 2010 | 37,775 | 747 | 26,443 | R 12,022 | 8,583 | 108,436 | 593 | 8,529 | R 164,604 | 29,625 | 1,251 | 360 | 9,763 | 149 |
| 2011 | 35,134 | 776 | 26,691 | R 11,762 | 8,797 | 105,871 | 688 | R 7,804 | R 161,614 | 32,889 | 1,357 | 456 | 9,987 | 507 |
| 2012 | 32,050 | 791 | 25,676 | R 10,308 | 8,656 | 105,052 | 511 | R 8,170 | R 158,372 | 28,020 | 1,207 | 1,132 | 10,628 | 478 |
| 2013 | 34,315 | 815 | 28,591 | R 13,277 | 8,751 | 109,078 | 406 | R 9,837 | R 169,939 | 28,921 | 1,419 | 2,800 | 11,235 | 848 |
| 2014 | 31,944 | 862 | 29,042 | R 13,819 | 8,760 | 109,118 | 274 | R 11,693 | R 172,706 | 31,246 | 1,600 | 3,868 | 11,035 | 783 |
| 2015 | 31,925 | 845 | 29,956 | 10,949 | 9,796 | 111,408 | 256 | 11,655 | 174,019 | 29,334 | 1,499 | 4,797 | 10,507 | 714 |
| 2016 | 24,656 | 890 | 29,780 | 11,635 | 10,013 | 113,495 | 512 | R 12,136 | R 177,570 | 31,552 | 1,564 | 4,696 | 10,738 | 1,052 |
| 2017 | 26,032 | 871 | 27,630 | 11,648 | 10,289 | 112,289 | 733 | R 12,972 | R 175,562 | 32,381 | 1,679 | 5,191 | 10,781 | 826 |
| 2018 | 26,277 | 966 | 31,280 | 13,549 | 10,049 | 112,532 | 832 | R 12,511 | R 180,753 | 30,479 | 1,569 | 5,457 | 10,666 | 830 |
| 2019 | 23,196 | 998 | 30,097 | 13,968 | 10,017 | 110,975 | 927 | R 12,194 | R 178,178 | 32,909 | 1,650 | 5,826 | 10,729 | R 636 |
| 2020 | 17,145 | 948 | 27,199 | 12,744 | 5,405 | 94,915 | 669 | R 12,228 | R 153,160 | 30,333 | 1,713 | 6,735 | 9,476 | 768 |
| 2021 | 22,472 | 899 | R 27,545 | 12,417 | 6,833 | 103,742 | 855 | R 13,180 | R 164,573 | 34,338 | 1,340 | 7,697 | 10,427 | R 661 |
| 2022 | 21,602 | 1,030 | 28,049 | 12,636 | 7,710 | 102,060 | 867 | 14,432 | 165,755 | 26,013 | 1,386 | 9,151 | 10,287 | 673 |

^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/>