

Table A6. Approximate Heat Rates for Electricity, and Heat Content of Electricity
(Btu per Kilowatthour)

| | Approximate Heat Rates for Electricity Net Generation ^a | | | Heat Content of Electricity ^{f,g} |
|------------|--|-----------------------------|---------------------------------------|--|
| | Fossil-Fueled Plants ^{b,c} | Nuclear Plants ^d | Geothermal Energy Plants ^e | |
| 1973 | 10,389 | 10,903 | 21,674 | 3,412 |
| 1974 | 10,442 | 11,161 | 21,674 | 3,412 |
| 1975 | 10,406 | 11,013 | 21,611 | 3,412 |
| 1976 | 10,373 | 11,047 | 21,611 | 3,412 |
| 1977 | 10,435 | 10,769 | 21,611 | 3,412 |
| 1978 | 10,361 | 10,941 | 21,611 | 3,412 |
| 1979 | 10,353 | 10,879 | 21,545 | 3,412 |
| 1980 | 10,388 | 10,908 | 21,639 | 3,412 |
| 1981 | 10,453 | 11,030 | 21,639 | 3,412 |
| 1982 | 10,454 | 11,073 | 21,629 | 3,412 |
| 1983 | 10,520 | 10,905 | 21,290 | 3,412 |
| 1984 | 10,440 | 10,843 | 21,303 | 3,412 |
| 1985 | 10,447 | 10,622 | 21,263 | 3,412 |
| 1986 | 10,446 | 10,579 | 21,263 | 3,412 |
| 1987 | 10,419 | 10,442 | 21,263 | 3,412 |
| 1988 | 10,324 | 10,602 | 21,096 | 3,412 |
| 1989 | 10,432 | 10,583 | 21,096 | 3,412 |
| 1990 | 10,402 | 10,582 | 21,096 | 3,412 |
| 1991 | 10,436 | 10,484 | 20,997 | 3,412 |
| 1992 | 10,342 | 10,471 | 20,914 | 3,412 |
| 1993 | 10,309 | 10,504 | 20,914 | 3,412 |
| 1994 | 10,316 | 10,452 | 20,914 | 3,412 |
| 1995 | 10,312 | 10,507 | 20,914 | 3,412 |
| 1996 | 10,340 | 10,503 | 20,960 | 3,412 |
| 1997 | 10,213 | 10,494 | 20,960 | 3,412 |
| 1998 | 10,197 | 10,491 | 21,017 | 3,412 |
| 1999 | 10,226 | 10,450 | 21,017 | 3,412 |
| 2000 | 10,201 | 10,429 | 21,017 | 3,412 |
| 2001 | ^c 10,333 | 10,448 | 21,017 | 3,412 |
| 2002 | 10,173 | 10,439 | 21,017 | 3,412 |
| 2003 | 10,241 | 10,421 | 21,017 | 3,412 |
| 2004 | 10,022 | 10,427 | 21,017 | 3,412 |
| 2005 | 9,999 | 10,435 | 21,017 | 3,412 |
| 2006 | 9,919 | 10,434 | 21,017 | 3,412 |
| 2007 | ^E 9,919 | ^E 10,434 | ^E 21,017 | 3,412 |
| 2008 | ^E 9,919 | ^E 10,434 | ^E 21,017 | 3,412 |

^a The values in columns 1-3 of this table are for net heat rates. See "Heat Rate" in Glossary.

^b Used as the thermal conversion factor for hydro, solar/photovoltaic, and wind electricity net generation to approximate the quantity of fossil fuels replaced by these sources. Through 2000, also used as the thermal conversion factor for wood and waste electricity net generation at electric utilities; beginning in 2001, Btu data for wood and waste at electric utilities are available from surveys.

^c Through 2000, heat rates are for fossil-fueled steam-electric plants at electric utilities. Beginning in 2001, heat rates are for all fossil-fueled plants at electric utilities and independent power producers.

^d Used as the thermal conversion factor for nuclear electricity net generation.

^e Used as the thermal conversion factor for geothermal electricity net generation.

^f The value of 3,412 Btu per kilowatthour is a constant. It is used as the thermal conversion factor for electricity retail sales, and electricity imports and exports.

^g See "Heat Content" in Glossary.

^E=Estimate.

Web Page: http://www.eia.doe.gov/emeu/mer/append_a.html.

Sources: See "Thermal Conversion Factor Source Documentation," which follows this table.