Table A6. Approximate Heat Rates for Electricity, and Heat Content of Electricity, Selected Years, 1949-2007 (Btu per Kilowatthour)

Year	Approximate Heat Rates <sup>1</sup> for Electricity Net Generation			
	Fossil-Fueled Plants <sup>2,3</sup>	Nuclear Plants <sup>4</sup>	Geothermal Energy Plants <sup>5</sup>	Heat Content <sup>6</sup> of Electricity <sup>7</sup>
949	15,033			3,412
950	14,030			3,412
955	11,699			3,412
960	10,760	11,629	23,200	3,412
965	10,760	11,804	23,200	3,412
970	10,494	10,977		3,412
970 971			21,606	
	10,478	10,837	21,655	3,412
972	10,379	10,792	21,668	3,412
973	10,389	10,903	21,674	3,412
974	10,442	11,161	21,674	3,412
975	10,406	11,013	21,611	3,412
976	10,373	11,047	21,611	3,412
977	10,435	10,769	21,611	3,412
978	10,361	10,941	21,611	3,412
979	10,353	10,879	21,545	3,412
980	10,388	10,908	21,639	3,412
981	10,453	11,030	21,639	3,412
982	10,454	11,073	21,629	3,412
983	10,520	10,905	21,290	3,412
984	10,440	10,843	21,303	3,412
985	10,447	10,622	21,263	3,412
986	10,446	10,579	21,263	3,412
987	10,419	10,442	21,263	3,412
988	10,324	10,602	21,096	3,412
989	10,432	10,583	21,096	3,412
990	10,402	10,582	21,096	3,412
991	10,436	10,484	20,997	3,412
992	10,342	10,471	20,914	3,412
993	10,309	10,504	20,914	3,412
994	10,316	10,452	20,914	3,412
995	10,312	10,507	20,914	3,412
996	10,340	10,503	20,960	3,412
997	10,213	10,494	20,960	3,412
998	10,197	10,491	21,017	3,412
999	10,226	10,450	21,017	3,412
000	10,201	10,429	21,017	3,412
001	<sup>2</sup> 10,333	10,448	21,017	3,412
002	10,173	10,439	21,017	3,412
003	10,241	10,421	21,017	3,412
004	10,022	10,427	21,017	3,412
2005	9,999	10,435	21,017	3,412
2006	R9,919	R10,434	21,017	3,412
2007	E9,919	E10,434	E21,017	3,412
.007	ت ا ت ا	10,434	21,017	3,412

<sup>&</sup>lt;sup>1</sup> The values in columns 1-3 of this table are for net heat rates. See "Heat Rate" in Glossary.

R=Revised. E=Estimate. --= Not applicable.

Web Page: For all data beginning in 1949, see http://www.eia.doe.gov/emeu/aer/append\_a.html.

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

<sup>&</sup>lt;sup>2</sup> 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.

<sup>&</sup>lt;sup>3</sup> 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.

<sup>&</sup>lt;sup>4</sup> Used as the thermal conversion factor for nuclear electricity net generation.

<sup>&</sup>lt;sup>5</sup> Used as the thermal conversion factor for geothermal electricity net generation.

<sup>&</sup>lt;sup>6</sup> See "Heat Content" in Glossary.

<sup>&</sup>lt;sup>7</sup> 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.