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

<table>
<thead>
<tr>
<th></th>
<th>Approximate Heat Rates&lt;sup&gt;a&lt;/sup&gt; for Electricity Net Generation</th>
<th>Noncombustible Renewable Energy&lt;sup&gt;b&lt;/sup&gt;</th>
<th>Heat Content&lt;sup&gt;c&lt;/sup&gt; of Electricity&lt;sup&gt;d&lt;/sup&gt;</th>
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<sup>a</sup> The values in columns 1–6 of this table are for net heat rates. See "Heat Rate" in Glossary.
<sup>b</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 electricity-only independent power producers.
<sup>c</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.
<sup>d</sup> Technology-based geothermal heat rates are no longer used in Btu calculations in this report. For technology-based geothermal heat rates for 1960–2010, see the Annual Energy Review 2010, Table A6. See "Heat Content" in Glossary.
<sup>e</sup> Includes anthracite, bituminous coal, subbituminous coal, lignite, and, beginning in 2002, waste coal and coal synfuel.
<sup>f</sup> Includes distillate fuel oil, residual fuel oil, jet fuel, kerosene, petroleum coke, and waste oil.
<sup>g</sup> Includes coal, petroleum, natural gas, and, beginning in 2001, other gases (blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels).
<sup>h</sup> Includes natural gas and supplemental gaseous fuels.
<sup>i</sup> The fossil-fuels heat rate is used as the thermal conversion factor for electricity net generation from noncombustible renewable energy (hydro, geothermal, solar thermal, photovoltaic, and wind) 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>j</sup> Used as the thermal conversion factor for nuclear electricity net generation.
<sup>k</sup> Technology-based geothermal heat rates are no longer used in Btu calculations in this report. For technology-based geothermal heat rates for 1960–2010, see the Annual Energy Review 2010, Table A6. See "Heat Content" in Glossary.
<sup>l</sup> Includes other gases (blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels).
<sup>m</sup> See "Energy Information Administration / Monthly Energy Review May 2015".