### Table 8a. U.S. Renewable Energy Consumption (Quadrillion Btu)

<table>
<thead>
<tr>
<th>Year</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
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</thead>
<tbody>
<tr>
<td>2017</td>
<td>0.037</td>
<td>0.036</td>
<td>0.037</td>
<td>0.037</td>
<td>0.038</td>
<td>0.038</td>
<td>0.038</td>
<td>0.039</td>
</tr>
<tr>
<td>2018</td>
<td>0.038</td>
<td>0.038</td>
<td>0.038</td>
<td>0.039</td>
<td>0.038</td>
<td>0.038</td>
<td>0.038</td>
<td>0.039</td>
</tr>
<tr>
<td>2019</td>
<td>0.037</td>
<td>0.036</td>
<td>0.037</td>
<td>0.037</td>
<td>0.038</td>
<td>0.038</td>
<td>0.038</td>
<td>0.039</td>
</tr>
</tbody>
</table>

**Electric Power Sector**
- Geothermal
- Hydroelectric Power (a)
- Solar (b)
- Waste Biomass (c)
- Wood Biomass
- Wind

**Commercial Sector**
- Geothermal
- Hydroelectric Power (a)
- Solar (b)
- Waste Biomass (c)
- Wood Biomass
- Wind

**Residential Sector**
- Geothermal
- Hydroelectric Power (a)
- Solar (b)
- Waste Biomass (c)
- Wood Biomass
- Wind

**Transportation Sector**
- Biomass-based Diesel (f)
- Ethanol (f)

**All Sectors Total**
- Biomass-based Diesel (f)
- Biofuel Losses and Co-products (d)
- Ethanol (f)
- Geothermal
- Hydroelectric Power (a)
- Solar (b)
- Waste Biomass (c)
- Wood Biomass
- Wind

**Total Consumption**
- 2.791

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

**Historical data:** Latest data available from EIA databases supporting the following reports: *Electric Power Monthly, DOE/EIA-0226* and *Renewable Energy Annual, DOE/EIA-0603; Petroleum Supply Monthly, DOE/EIA-0109.*

**Projections:** EIA Regional Short-Term Energy Model.

- (a) Conventional hydroelectric power only. Hydroelectricity generated by pumped storage is not included in renewable energy.
- (b) Solar consumption in the electric power, commercial, and industrial sectors includes energy produced from large scale (>1 MW) solar thermal and photovoltaic generators and small-scale (<1 MW) distributed solar photovoltaic systems.
- (c) Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass.
- (d) Losses and co-products from the production of fuel ethanol and biomass-based diesel.
- (e) Solar consumption in the residential sector includes energy from small-scale (<1 MW) solar photovoltaic systems. Also includes solar heating consumption in all sectors.
- (f) Fuel ethanol and biomass-based diesel consumption in the transportation sector includes production, stock change, and imports less exports. Some biomass-based diesel may be consumed in the residential sector in heating oil.