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

U.S. Energy Information Administration | Short-Term Energy Outlook - February 2017

	2016				2017				2018				Year		
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	2016	2017	2018
Electric Power Sector															
Hydroelectric Power (a)	**0.709**	**0.684**	**0.528**	**0.531**	*0.624*	*0.770*	*0.618*	*0.515*	*0.641*	*0.735*	*0.639*	*0.527*	**2.451**	*2.528*	*2.542*
Wood Biomass (b)	**0.061**	**0.049**	**0.060**	**0.050**	*0.054*	*0.048*	*0.059*	*0.055*	*0.056*	*0.050*	*0.062*	*0.056*	**0.220**	*0.216*	*0.223*
Waste Biomass (c)	**0.070**	**0.072**	**0.072**	**0.072**	*0.068*	*0.070*	*0.073*	*0.072*	*0.069*	*0.072*	*0.074*	*0.073*	**0.287**	*0.283*	*0.287*
Wind	**0.575**	**0.529**	**0.452**	**0.565**	*0.597*	*0.614*	*0.436*	*0.624*	*0.666*	*0.680*	*0.481*	*0.665*	**2.120**	*2.272*	*2.492*
Geothermal	**0.040**	**0.039**	**0.040**	**0.042**	*0.041*	*0.040*	*0.041*	*0.040*	*0.039*	*0.039*	*0.040*	*0.040*	**0.162**	*0.162*	*0.158*
Solar	**0.061**	**0.093**	**0.108**	**0.074**	*0.082*	*0.146*	*0.142*	*0.088*	*0.098*	*0.173*	*0.168*	*0.100*	**0.337**	*0.459*	*0.538*
Subtotal	**1.517**	**1.466**	**1.259**	**1.334**	*1.466*	*1.690*	*1.370*	*1.394*	*1.568*	*1.749*	*1.464*	*1.460*	**5.576**	*5.920*	*6.241*
Industrial Sector															
Hydroelectric Power (a)	**0.004**	**0.003**	**0.002**	**0.003**	*0.004*	*0.003*	*0.002*	*0.003*	*0.004*	*0.003*	*0.002*	*0.003*	**0.012**	*0.013*	*0.013*
Wood Biomass (b)	**0.319**	**0.312**	**0.318**	**0.321**	*0.309*	*0.301*	*0.311*	*0.313*	*0.304*	*0.300*	*0.312*	*0.314*	**1.270**	*1.235*	*1.230*
Waste Biomass (c)	**0.047**	**0.048**	**0.048**	**0.047**	*0.049*	*0.048*	*0.047*	*0.048*	*0.049*	*0.048*	*0.047*	*0.048*	**0.191**	*0.192*	*0.192*
Geothermal	**0.001**	**0.001**	**0.001**	**0.001**	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	**0.004**	*0.004*	*0.004*
Biofuel Losses and Co-products (f)	**0.196**	**0.193**	**0.203**	**0.209**	*0.196*	*0.199*	*0.205*	*0.201*	*0.202*	*0.203*	*0.204*	*0.198*	**0.800**	*0.800*	*0.807*
Subtotal	**0.571**	**0.562**	**0.576**	**0.582**	*0.563*	*0.558*	*0.571*	*0.570*	*0.565*	*0.560*	*0.571*	*0.568*	**2.291**	*2.261*	*2.263*
Commercial Sector															
Wood Biomass (b)	**0.018**	**0.018**	**0.019**	**0.018**	*0.018*	*0.018*	*0.019*	*0.018*	*0.018*	*0.018*	*0.019*	*0.018*	**0.073**	*0.073*	*0.073*
Waste Biomass (c)	**0.013**	**0.012**	**0.012**	**0.013**	*0.013*	*0.012*	*0.012*	*0.012*	*0.013*	*0.012*	*0.012*	*0.012*	**0.049**	*0.049*	*0.049*
Geothermal	**0.005**	**0.005**	**0.005**	**0.005**	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	**0.020**	*0.020*	*0.020*
Subtotal	**0.058**	**0.063**	**0.064**	**0.058**	*0.059*	*0.066*	*0.067*	*0.059*	*0.062*	*0.069*	*0.070*	*0.061*	**0.243**	*0.252*	*0.261*
Residential Sector															
Wood Biomass (b)	**0.096**	**0.096**	**0.097**	**0.097**	*0.098*	*0.098*	*0.099*	*0.099*	*0.103*	*0.103*	*0.104*	*0.104*	**0.386**	*0.395*	*0.413*
Geothermal	**0.011**	**0.011**	**0.011**	**0.011**	*0.012*	*0.012*	*0.012*	*0.012*	*0.013*	*0.013*	*0.013*	*0.013*	**0.044**	*0.047*	*0.052*
Solar (d)	**0.031**	**0.047**	**0.049**	**0.035**	*0.036*	*0.055*	*0.057*	*0.042*	*0.043*	*0.066*	*0.068*	*0.050*	**0.162**	*0.190*	*0.227*
Subtotal	**0.138**	**0.154**	**0.157**	**0.143**	*0.145*	*0.165*	*0.168*	*0.153*	*0.159*	*0.181*	*0.185*	*0.167*	**0.592**	*0.632*	*0.692*
Transportation Sector															
Ethanol (e)	**0.277**	**0.283**	**0.293**	**0.287**	*0.269*	*0.290*	*0.297*	*0.284*	*0.274*	*0.291*	*0.296*	*0.285*	**1.140**	*1.140*	*1.146*
Biomass-based Diesel (e)	**0.051**	**0.066**	**0.088**	**0.084**	*0.059*	*0.071*	*0.086*	*0.087*	*0.072*	*0.078*	*0.089*	*0.091*	**0.289**	*0.304*	*0.330*
Subtotal	**0.328**	**0.349**	**0.381**	**0.367**	*0.328*	*0.361*	*0.383*	*0.371*	*0.345*	*0.369*	*0.386*	*0.376*	**1.426**	*1.443*	*1.475*
All Sectors Total															
Hydroelectric Power (a)	**0.713**	**0.687**	**0.530**	**0.534**	*0.628*	*0.774*	*0.621*	*0.518*	*0.645*	*0.739*	*0.642*	*0.530*	**2.464**	*2.541*	*2.556*
Wood Biomass (b)	**0.494**	**0.475**	**0.493**	**0.486**	*0.479*	*0.466*	*0.489*	*0.485*	*0.480*	*0.471*	*0.497*	*0.492*	**1.949**	*1.919*	*1.940*
Waste Biomass (c)	**0.130**	**0.132**	**0.131**	**0.132**	*0.130*	*0.130*	*0.132*	*0.132*	*0.131*	*0.131*	*0.133*	*0.133*	**0.526**	*0.524*	*0.528*
Wind	**0.575**	**0.529**	**0.452**	**0.565**	*0.597*	*0.614*	*0.436*	*0.624*	*0.666*	*0.680*	*0.481*	*0.665*	**2.120**	*2.272*	*2.492*
Geothermal	**0.057**	**0.056**	**0.057**	**0.059**	*0.059*	*0.058*	*0.059*	*0.058*	*0.058*	*0.058*	*0.059*	*0.059*	**0.229**	*0.233*	*0.234*
Solar	**0.109**	**0.165**	**0.181**	**0.127**	*0.139*	*0.231*	*0.230*	*0.151*	*0.165*	*0.272*	*0.270*	*0.174*	**0.582**	*0.751*	*0.881*
Ethanol (e)	**0.287**	**0.295**	**0.305**	**0.298**	*0.283*	*0.301*	*0.309*	*0.295*	*0.284*	*0.302*	*0.308*	*0.296*	**1.185**	*1.188*	*1.191*
Biomass-based Diesel (e)	**0.051**	**0.066**	**0.088**	**0.084**	*0.059*	*0.071*	*0.086*	*0.087*	*0.072*	*0.078*	*0.089*	*0.091*	**0.289**	*0.304*	*0.330*
Biofuel Losses and Co-products (f)	**0.196**	**0.193**	**0.203**	**0.209**	*0.196*	*0.199*	*0.205*	*0.201*	*0.202*	*0.203*	*0.204*	*0.198*	**0.800**	*0.800*	*0.807*
Total Consumption	**2.611**	**2.595**	**2.438**	**2.516**	*2.562*	*2.839*	*2.560*	*2.547*	*2.698*	*2.928*	*2.676*	*2.632*	**10.160**	*10.508*	*10.934*

- = no data available

(a) Conventional hydroelectric power only. Hydroelectricity generated by pumped storage is not included in renewable energy.

(b) Wood and wood-derived fuels.

(c) Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass.

(d) Includes small-scale solar thermal and photovoltaic energy used in the commercial, industrial, and electric power sectors.

(e) 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.

(f) Losses and co-products from the production of fuel ethanol and biomass-based diesel

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.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.