

# Energy Consumption in the U.S.

Energy can be categorized into nonrenewable and renewable resources. Looking at the chart below, write your thoughts and observations about the types of energy consumed.

## U.S. Energy Consumption by Source 2017

Nonrenewable Energy	Renewable Energy
<b>Petroleum</b> 28% uses: transportation, manufacturing	<b>Biomass</b> 5.06% uses: heating, electricity, transportation
<b>Natural Gas</b> 31.8% uses: heating, manufacturing, electricity	<b>Hydropower</b> 2.81% uses: electricity
<b>Coal</b> 17.8% uses: electricity, manufacturing	<b>Wind</b> 2.36% uses: electricity
<b>Uranium</b> 9.6% uses: electricity	<b>Solar</b> 0.67% uses: heating, electricity
	<b>Geothermal</b> 0.22% uses: heating, electricity

Thoughts and observations about the chart:

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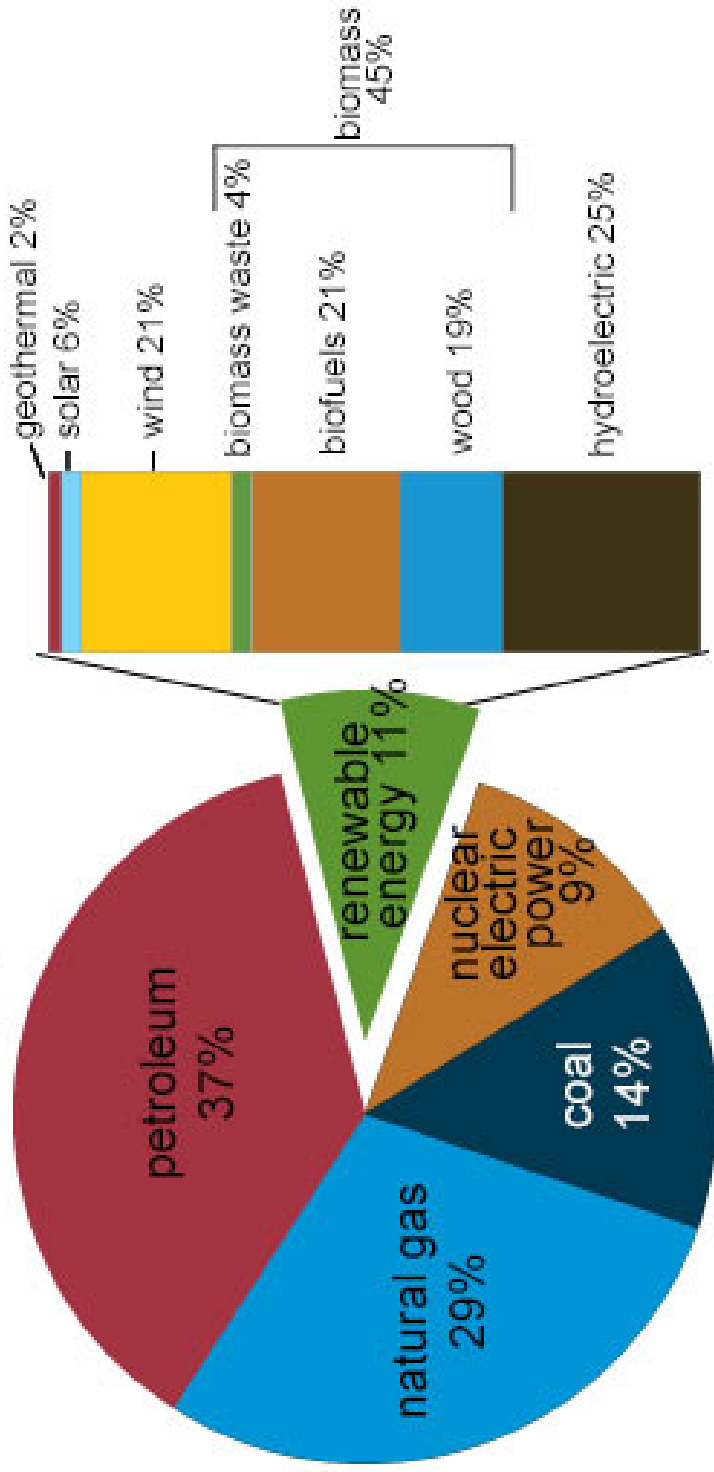




# U.S. energy consumption by energy source, 2017

Total = 97.7 quadrillion  
British thermal units (Btu)

Total = 11.0 quadrillion Btu

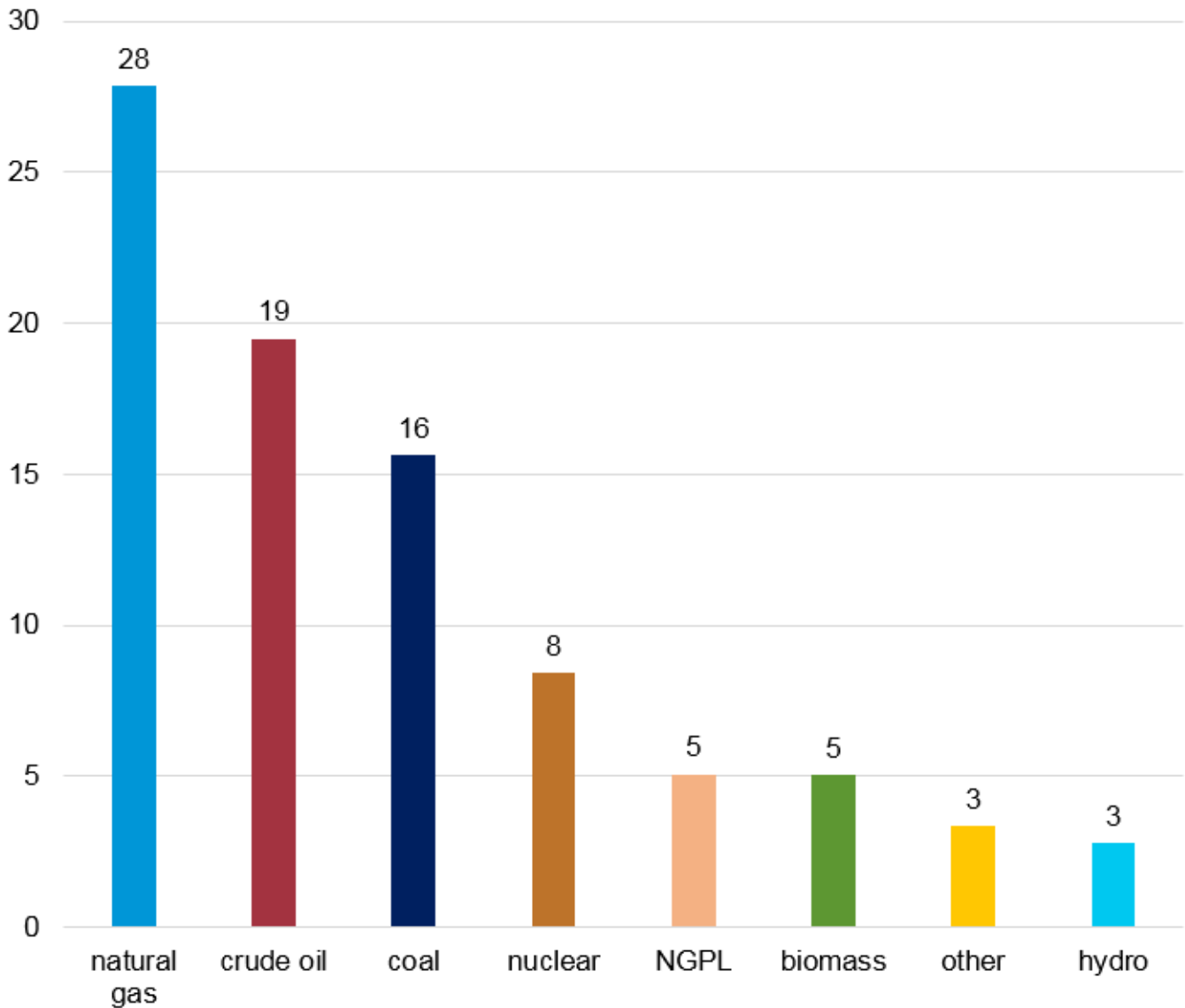


Note: Sum of components may not equal 100% because of independent rounding.  
Source: U.S. Energy Information Administration, *Monthly Energy Review*, Table 1.3 and 10.1, April 2018, preliminary data



## U.S. primary energy production by major sources, 2017

quadrillion British thermal units



Note: NGPL is natural gas plant liquids; other is geothermal, solar, and wind; hydro is conventional hydroelectric.

Source: U.S. Energy Information Administration, *Monthly Energy Review*, April 2018, preliminary data



# Energy Sort

Using the pictures from the previous lesson, sort the energy source according to renewable and nonrenewable energy.

**Renewable**

**Nonrenewable**





# Renewable or Nonrenewable?

	Renewable or Nonrenewable (circle one)	Uses	Conservation Ideas
<b>Coal</b>	Renewable Nonrenewable		
<b>Oil</b>	Renewable Nonrenewable		
<b>Wind</b>	Renewable Nonrenewable		
<b>Uranium</b>	Renewable Nonrenewable		
<b>Natural Gas</b>	Renewable Nonrenewable		
<b>Hydropower</b>	Renewable Nonrenewable		





# Renewable & Nonrenewable Resources

## Exit Ticket

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Give an example of two energy sources that are renewable:

- 1.
- 2.

Give an example of two energy sources that are nonrenewable:

- 1.
- 2.

What is the difference between renewable and nonrenewable?



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