



Name: _____ Date: _____ Pd. _____

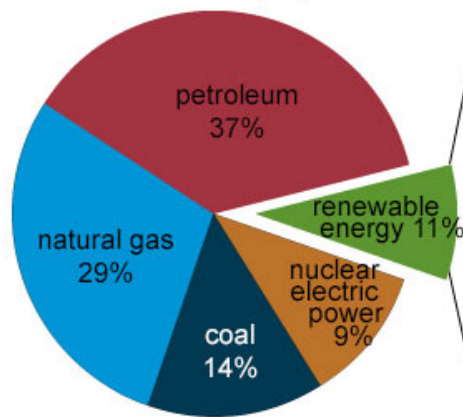
World Energy Sources

As humans, we consume A LOT of energy. But where does this energy come from?

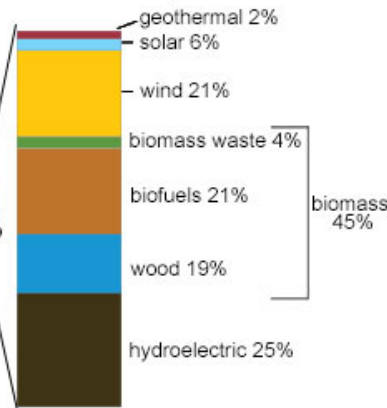
Energy sources that we use to generate useable power fall into two categories – renewable and non-renewable. Renewable sources can be replaced on relatively short times scales (on the scale of a human lifetimes or less), whereas non-renewable sources can be replaced only over very long geological times.

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



Types of non-renewable energy include: Uranium-235 (nuclear) and fossil fuels such as oil, coal and natural gas. Types of renewable energy include: solar, hydropower, wind, biomass, and geothermal.

Below you will find areas to record pros and cons of each energy source. Research the energy source your group is assigned. Then, you'll share out your findings to others and record their findings too!

As you research, be sure you are looking at credible sources. Here are some helpful websites to get you started on your research:

- <https://www.eia.gov/kids/energy.cfm?page=2>
- <http://www.switchenergyproject.com/education/energy-lab>
- <http://www.need.org/files/curriculum/guides/Secondary%20Energy%20Infobook.pdf>





SOURCE: Uranium-235 (Nuclear)

Describe how do we harness energy from this source:

Pros:

Cons:

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- .
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SOURCE: Fossil Fuels (Oil, Coal, Natural Gas)

Describe how do we harness energy from this source:

Pros:

Cons:

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- .
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SOURCE: Solar

Describe how do we harness energy from this source:

Pros:

Cons:

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SOURCE: Hydropower (Water)

Describe how do we harness energy from this source:

Pros:

Cons:

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SOURCE: Wind

Describe how do we harness energy from this source:

Pros:

Cons:

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SOURCE: Biomass

Describe how do we harness energy from this source:

Pros:	Cons:
<ul style="list-style-type: none">••••••	<ul style="list-style-type: none">••••••





SOURCE: Geothermal

Describe how do we harness energy from this source:

Pros:	Cons:
<ul style="list-style-type: none">••••••	<ul style="list-style-type: none">••••••

