

Vocab

Fossil Fuel	Fuel that comes from the remnants of prehistoric organisms.
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Vocab (cont)

Commercial Energy Sources	Sources that are bought and sold.
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Vocab (cont)

Subsistence Energy Sources	Sources gathered by individuals for their own use.
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Vocab (cont)

Conservation of Energy	Energy cannot be created or destroyed; it can only be changed from one form to another.
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Vocab (cont)

EROEI	Energy return on energy invested. (Energy obtained from the fuel/Energy invested to get it)
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Vocab (cont)

Cogene Using a fuel to generate electri-
ration cidity and produce heat.

Vocab (cont)

Coal A solid fuel formed from the remains
of 280-360 million yr old plant
materials

Vocab (cont)

Lignite, Sub- The four types of coal
bituminous, ranked from lesser to
bituminous, greater age, exposure to
and anthra- pressure, and energy
cite. content.



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Vocab (cont)

Petroleum A mixture of hydrocarbons, water, and sulfur that occur in underground deposits.

Vocab (cont)

Oil Refinery Uses heat to separate crude oil into gasoline, kerosene, fuel oil, and diesel fuel.

Vocab (cont)

Natural Gas Exists as a part of petroleum in the ground, and in gaseous deposits separate from petroleum.



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Vocab (cont)

Oil A slow-moving, viscous deposit of
Sands bitumen mixed with sand, water,
 and clay.

Vocab (cont)

Bitumen A degraded kind of petroleum
(tar/p- that forms when petroleum
itch) migrates close to the surface
 where bacteria metabolize some
 of the light hydrocarbons and
 others evaporate.

Vocab (cont)

Hubbert A graph that shows the point at
Curve which world oil production would
 reach a maximum and the point
 at which we would run out of oil.



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Vocab (cont)

Fission A nuclear reaction in which a neutron hits a larger atomic nucleus, which then splits into 2+ parts.

Vocab (cont)

Uranium 235 (U-235) The isotope of uranium that undergoes nuclear fission.

Vocab (cont)

Fuel Rods The cylindrical tubes that house the nuclear fuel used in nuclear power plants.



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Vocab (cont)

Control Rods Cylindrical devices that can be inserted between fuel rods to absorb excess neutrons, thus slowing/stopping the fission reaction.

Vocab (cont)

Radioactive Waste Nuclear fuel that can no longer produce enough heat to be used in a power plant, but still emits radioactivity.

Vocab (cont)

High-Level Radioactive Waste The form of nuclear waste used in fuel rods.



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Vocab (cont)

Low-Level Radioactive Waste The protective clothing, tools, rags, and other things used in routine plant maintenance.

Vocab (cont)

Nuclear Fusion The reaction that occurs when lighter nuclei are forced together to produce heavier nuclei and release heat. This powers the Sun and other stars.

The History of Energy Use in the United States

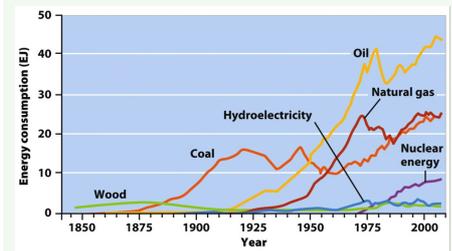


Figure 13.3
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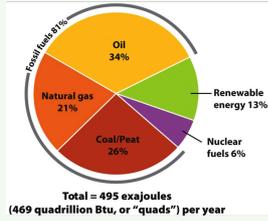
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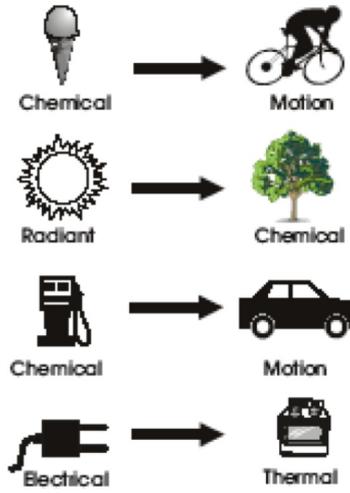
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Global Energy Use



Energy Transformations

Energy Transformations



Energy Use

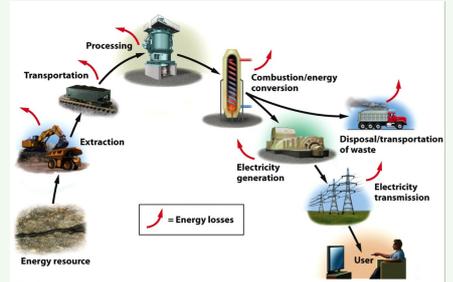


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Pro/Con Coal

Advantages	Disadvantages
Energy-dense	Contains impurities
Plentiful	Release impurities into air when burned
Easy to exploit by surface mining	Trace metals like mercury, lead, and arsenic are found in coal
Technological demands are small	Combustion leads to increased levels of sulfur dioxide and other air pollutants into the atmosphere.
Economic costs are low	Ash is left behind
Easy to handle and transport	Carbon is released into the atmosphere which contributes to climate change
Needs little refining	

Pro/Con Petroleum

Advantages	Disadvantages
Convenient to transport and use	Releases carbon dioxide into atmosphere
Relatively energy-dense	Possibility of leaks when extracted and transported
Cleaner-burning than coal	Releases sulfur, mercury, lead, and arsenic into the atmosphere when burned



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Pro/Con Natural Gas

Advantages	Disadvantages
Contains fewer impurities and therefore emits almost no sulfur dioxide or particulates	When unburned, methane escapes into the atmosphere
Emits only 46% as much carbon dioxide as coal	Exploration of natural gas has the potential of contaminating groundwater

Pro/Con Nuclear

Advantages	Disadvantages
No air pollution is produced	Possibility of accidents
Countries can limit their need for imported oil	Disposal of the radioactive waste

Hubbert Curve

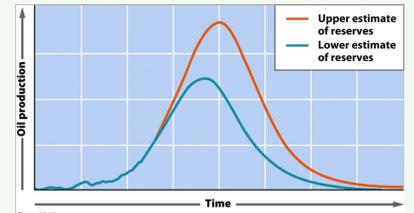


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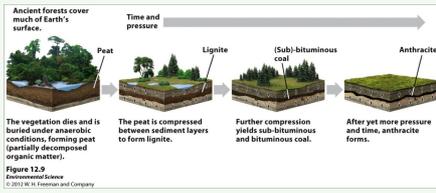
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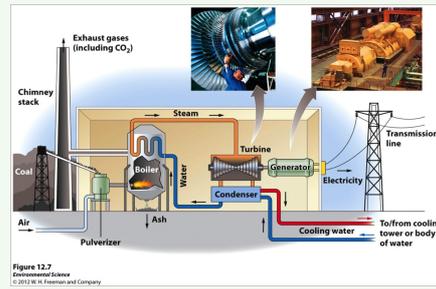
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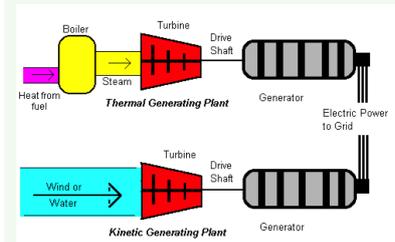
Coal Formation



Coal Plant Electricity Generation



Electricity Generating Plants



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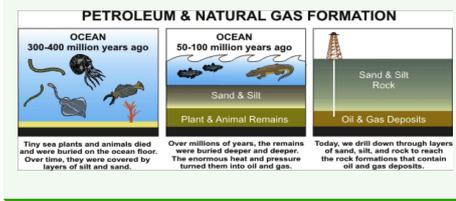
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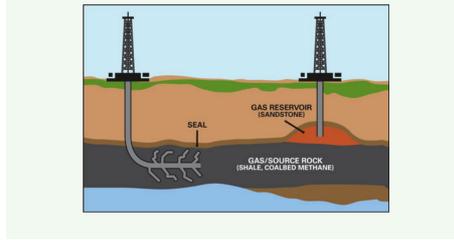
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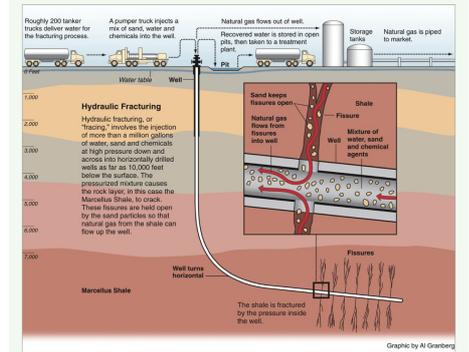
Petroleum and Natural Gas Formation



Hydraulic Fracking



Fracking



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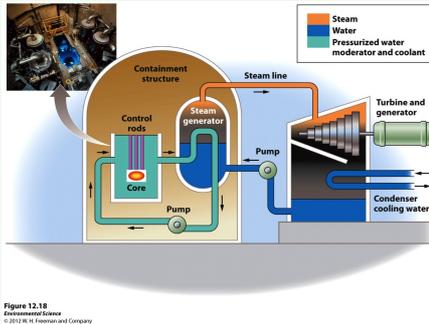
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Nuclear Reactor



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