

Vocab

Fossil Fuel Fuel that comes from the remnants of prehistoric organisms.

Vocab (cont)

Commercial Energy Sources Sources th

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Page 1 of 100.

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| Vocab (cont) | | Vocab (cont) | | Vocab (cont) | |
|----------------------------|--|------------------------|---|--------------|---------------------------------|
| Subsistence Energy Sources | Sources gathered by individuals for their own use. | Conservation of Energy | Energy cannot be created or destroyed; it can only be changed from one form to another. | EROEI | Energy return obtained from the |



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Vocab (cont)

Cogene
ration

Using a fuel to generate electricity 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-bituminous, bituminous, and anthracite.

The four types of coal r age, exposure to press



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Page 3 of 100.

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| Vocab (cont) | | Vocab (cont) | | Vocab (cont) | |
|--------------|--|--------------|---|--------------|--|
| Petroleum | A mixture of hydrocarbons, water, and sulfur that occur in underground deposits. | Oil | Uses heat to separate crude oil into gasoline, kerosene, fuel oil, and diesel fuel. | Natural Gas | Exists as a part of pe gaseous deposits se |



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Vocab (cont)

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

Vocab (cont)

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

Vocab (cont)

Hubbert Curve A graph that shows production would point at which w



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| Vocab (cont) | | Vocab (cont) | | Vocab (cont) | |
|--------------|--|---------------------|--|--------------|---|
| Fission | A nuclear reaction in which a neutron hits a larger atomic nucleus, which then splits into 2+ parts. | Uranium 235 (U-235) | The isotope of uranium that undergoes nuclear fission. | Fuel Rods | The cylindrical tubes used in nuclear reactors. |



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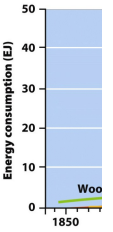
| Vocab (cont) | | Vocab (cont) | | Vocab |
|--------------|---|-------------------|---|---------------|
| Control Rods | Cylindrical devices that can be inserted between fuel rods to absorb excess neutrons, thus slowing/stopping the fission reaction. | Radioactive Waste | Nuclear fuel that can no longer produce enough heat to be used in a power plant, but still emits radioactivity. | High Radi Was |



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Page 7 of 100.

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| Vocab (cont) | | Vocab (cont) | | The Hist United S |
|--------------|---|--------------|---|---|
| Low-Level | The protective clothing, tools, rags, and other things used in routine plant maintenance. | Nuclear | The reaction that occurs when lighter nuclei are forced together to produce heavier nuclei and release heat. This powers the Sun and other stars. |  |
| Radioactive | | | | |
| Waste | | | | |



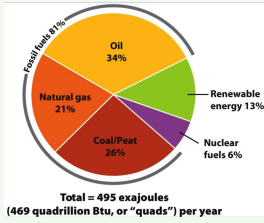
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Page 8 of 100.

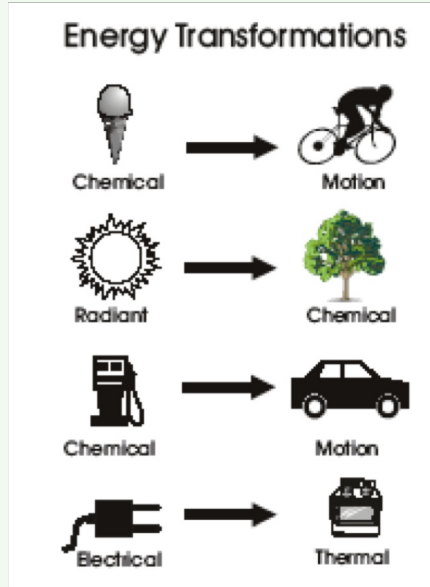
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Figure 12.3
Environmental Science
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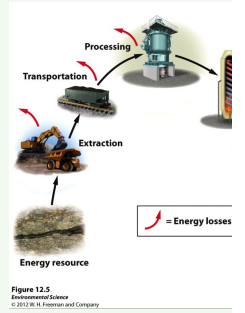
Global Energy Use



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 | Toxic 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 extra-transported |
| Cleaner-burning than coal | |
| Releases sulfur, mercury, lead, and arsenic into the atmosphere when burned | |

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Page 10 of 100.

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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

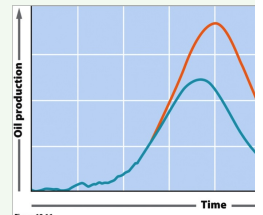


Figure 12.14
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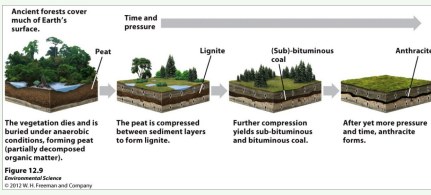
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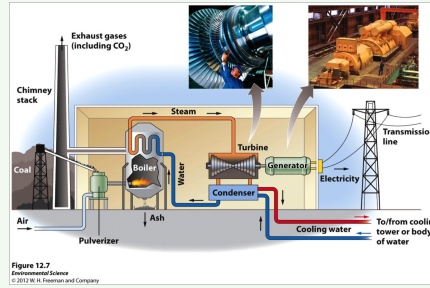
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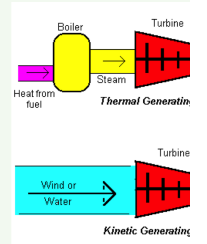
Coal Formation



Coal Plant Electricity Generation



Electricity Generating P



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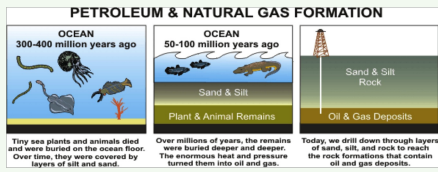
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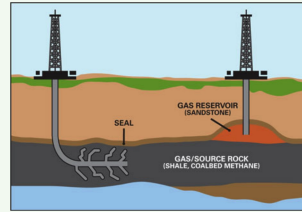
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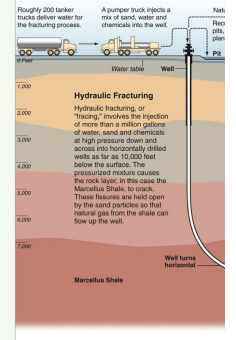
Petroleum and Natural Gas Formation



Hydraulic Fracking



Fracking



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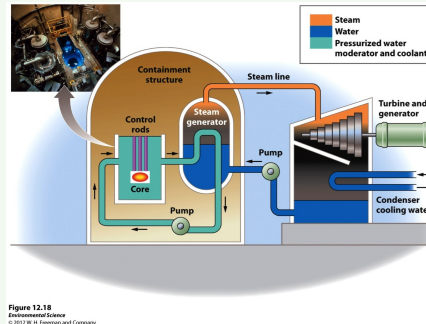
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Nuclear Reactor



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