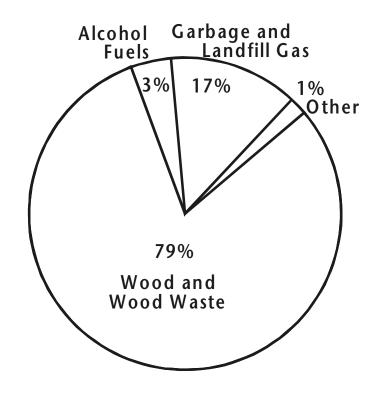


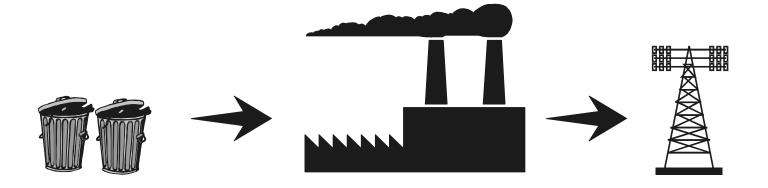
In the process of photosynthesis, plants convert radiant energy from the sun into chemical energy in the form of glucose - or sugar.

water	+ C	arbon dioxi	de +	sunlight →	glucose + oxygen
6 H <sub>2</sub> 0	+	6 CO <sub>2</sub>	+	radiant energy —	$C_{6}H_{12}O_{6} + 6O_{2}$

**BIOMASS 2** 

## U.S. Consumption of Biomass

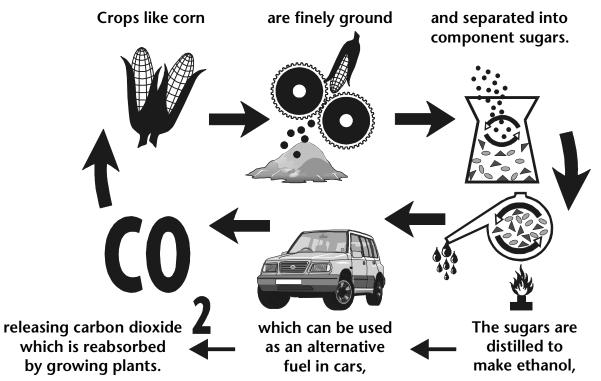




# Waste-to-Energy plants convert garbage into steam and electricity.

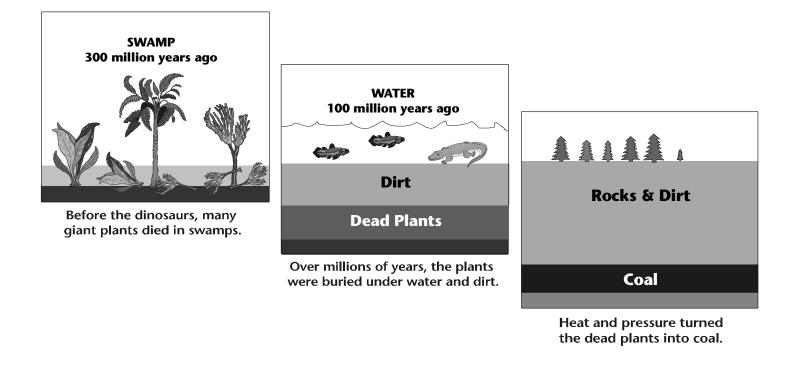
**BIOMASS 4** 

## THE CARBON CYCLE

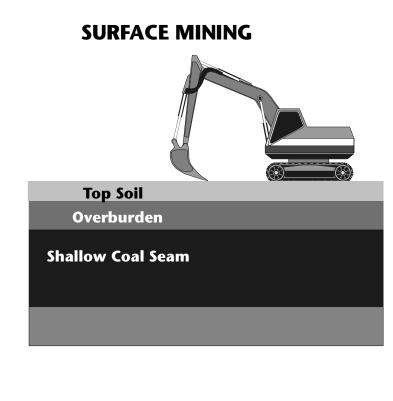


COAL 1

#### **HOW COAL WAS FORMED**

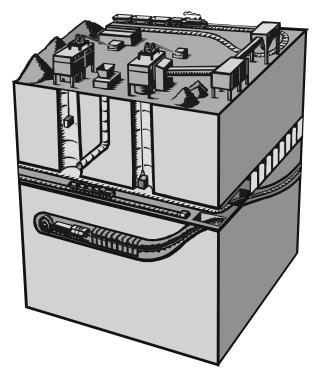


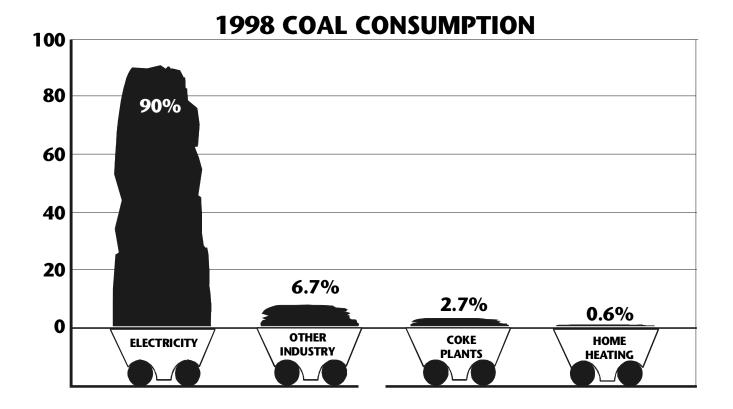
COAL 2



#### **UNDERGROUND MINING**

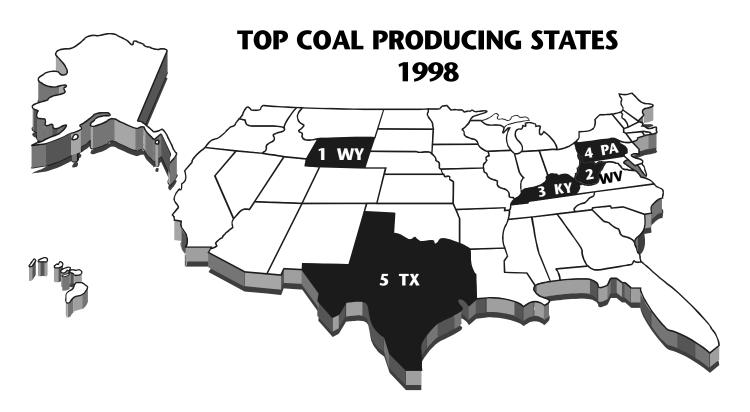
. . . . . . .

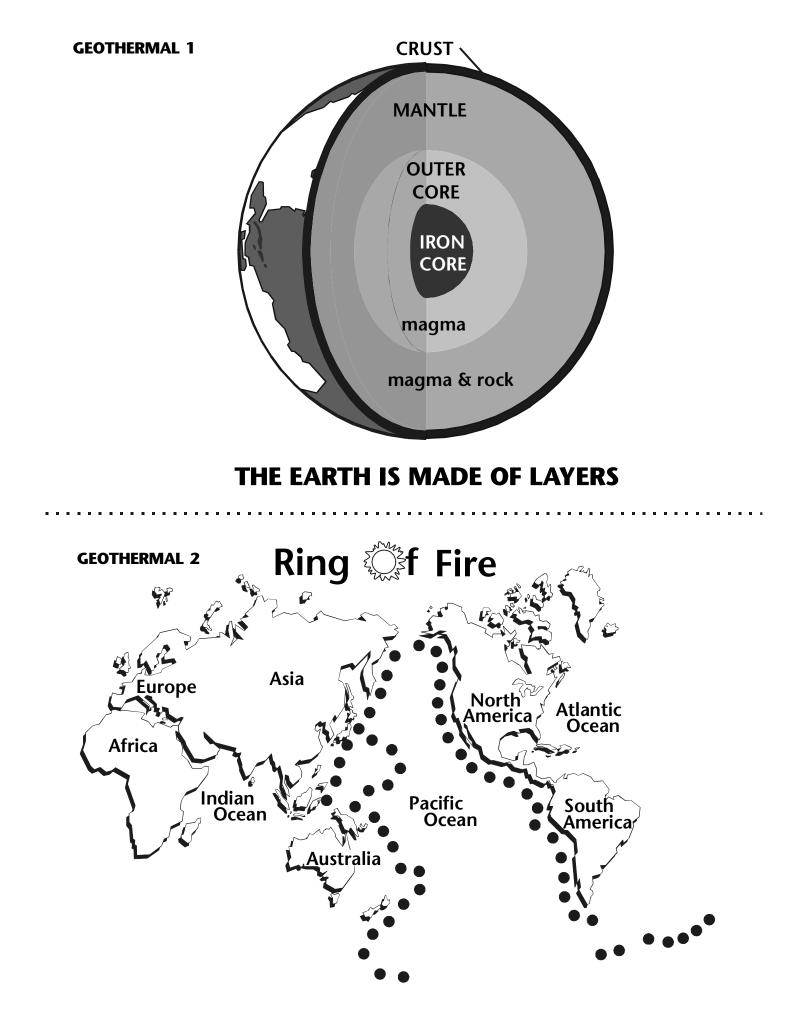




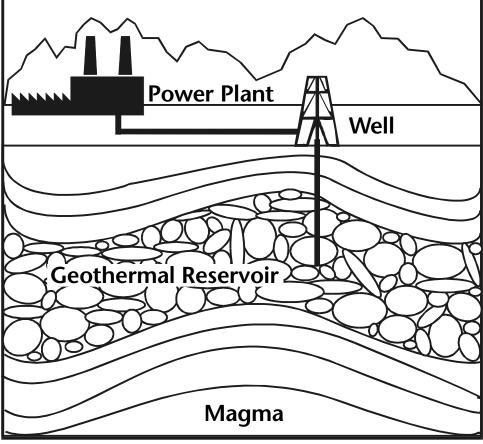
COAL 4

COAL 3



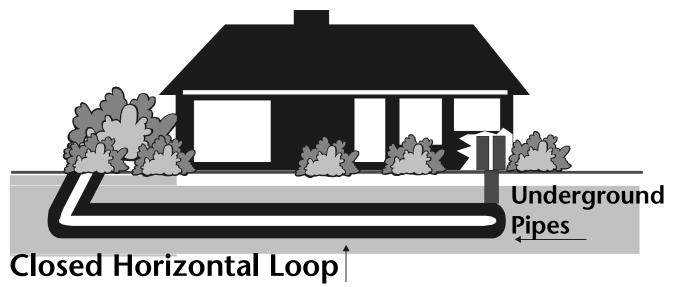


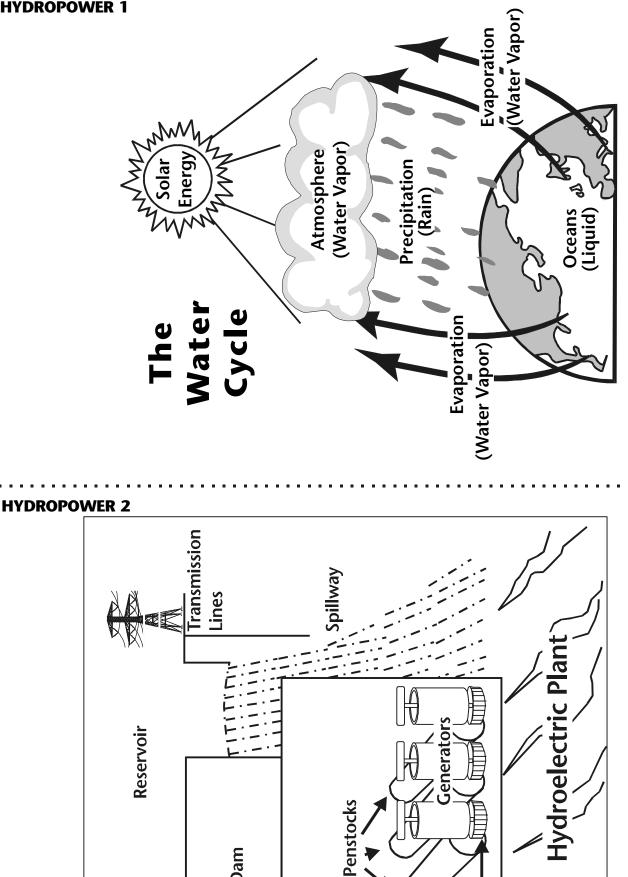
#### **GEOTHERMAL 3**



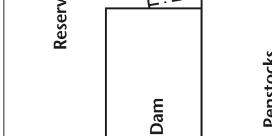
**GEOTHERMAL 4** 

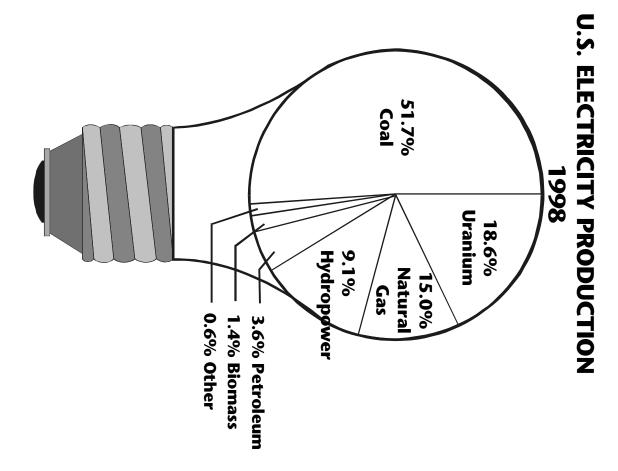
# **Residential GeoExchange Unit**



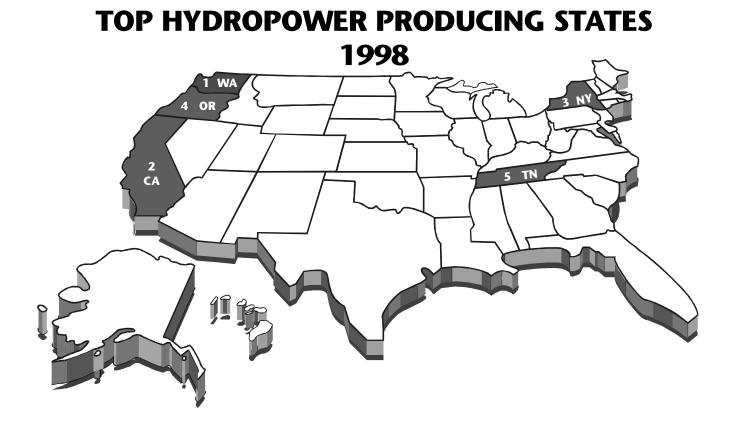


**Turbines**.

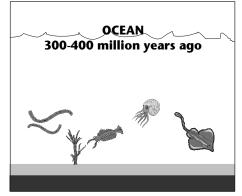




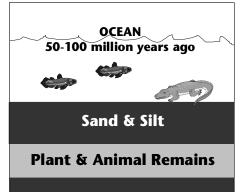
**HYDROPOWER 4** 



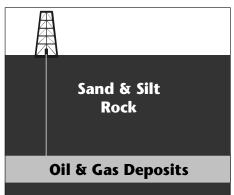
### NATURAL GAS FORMATION



Tiny sea plants and animals died and were buried on the ocean floor. Over time, they were covered by layers of silt and sand.



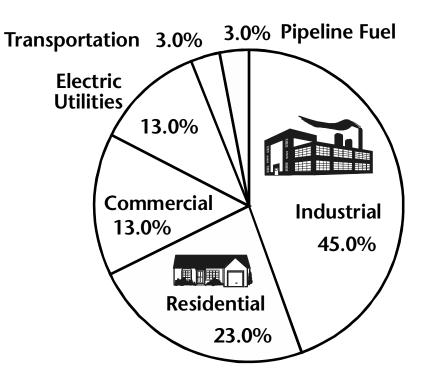
Over millions of years, the remains were buried deeper and deeper. The enormous heat and pressure turned them into oil and gas.

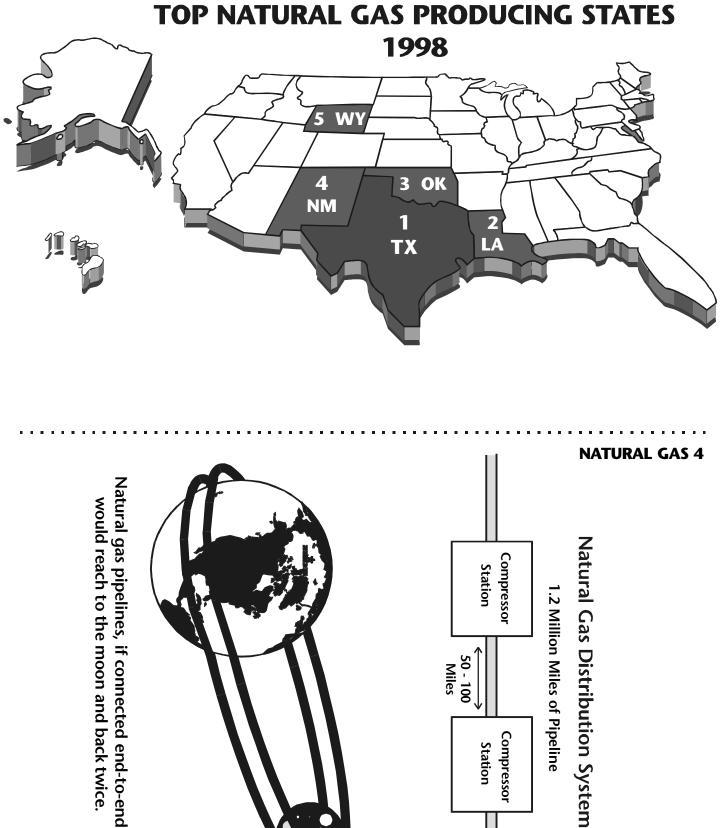


Today, we drill down through layers of sand, silt, and rock to reach the rock formations that contain oil and gas deposits.

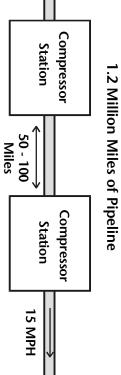
NATURAL GAS 2

#### NATURAL GAS USE 1998



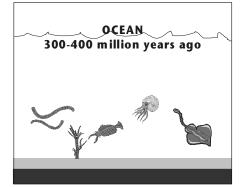


Natural gas pipelines, if connected end-to-end, would reach to the moon and back twice.





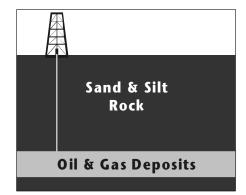
#### **PETROLEUM FORMATION**



Tiny sea plants and animals died and were buried on the ocean floor. Over time, they were covered by layers of silt and sand.

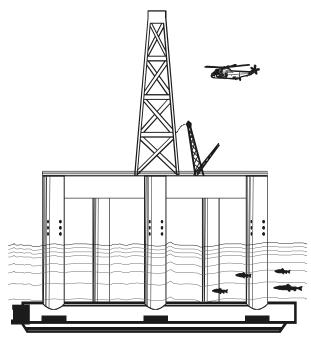


Over millions of years, the remains were buried deeper and deeper. The enormous heat and pressure turned them into oil and gas.

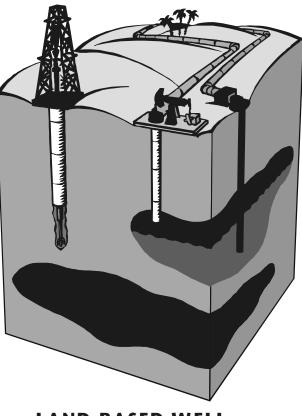


Today, we drill down through layers of sand, silt, and rock to reach the rock formations that contain oil and gas deposits.

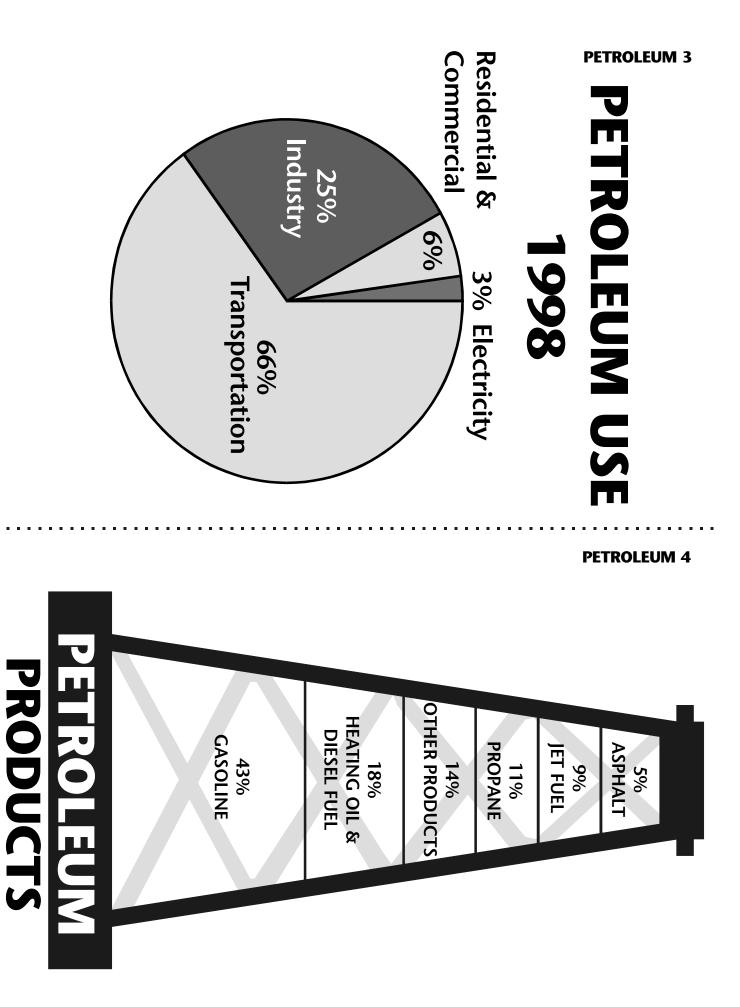




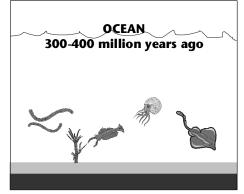
**OFFSHORE PLATFORM** 



LAND-BASED WELL



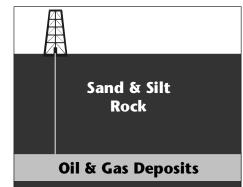
## PROPANE IS FOUND IN PETROLEUM AND NATURAL GAS DEPOSITS



Tiny sea plants and animals died and were buried on the ocean floor. Over time, they were covered by layers of silt and sand.

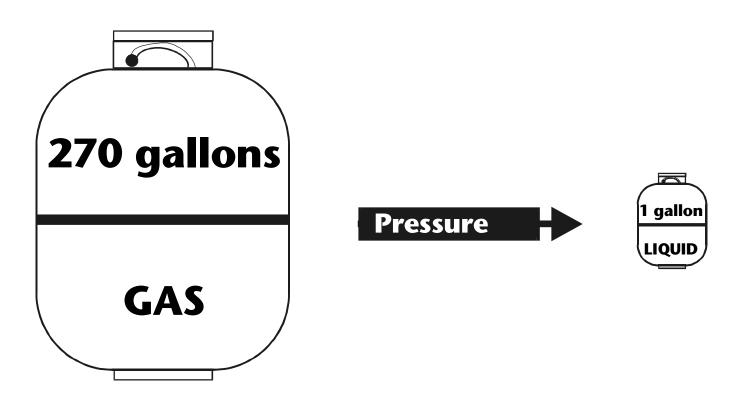


Over millions of years, the remains were buried deeper and deeper. The enormous heat and pressure turned them into oil and gas.

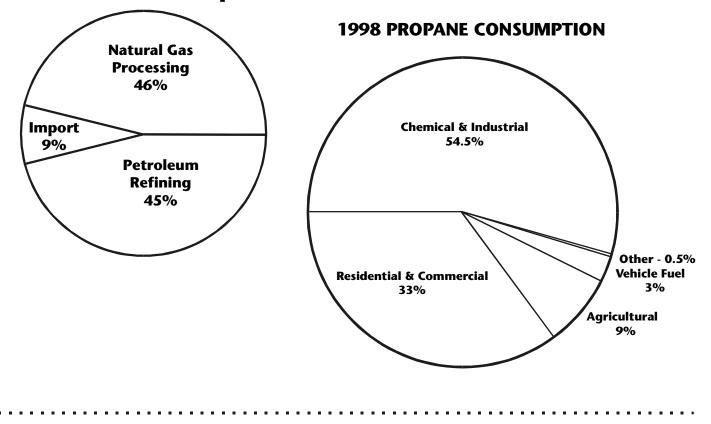


Today, we drill down through layers of sand, silt, and rock to reach the rock formations that contain oil and gas deposits.

#### **PROPANE 2**



#### **Sources of U.S. Propane**



**PROPANE 4** 



To heat barns and operate farm equipment

### **How Propane is Used**



To fuel machinery that is used indoors



To fuel hot air balloons





To heat homes



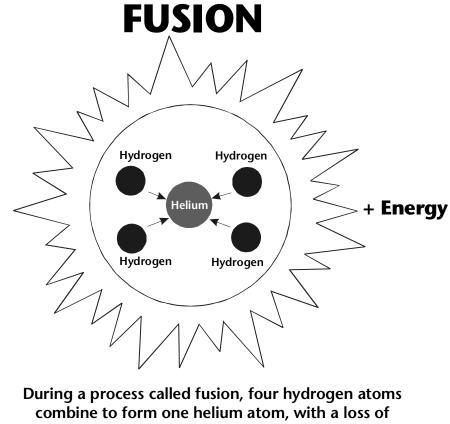
To fuel fleet vehicles



To fuel appliances

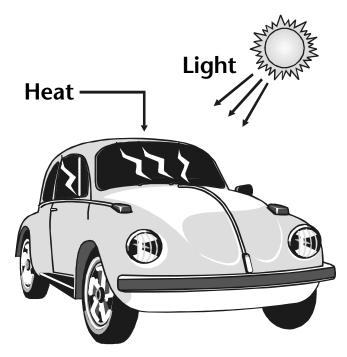
To fuel backyard grills

SOLAR 1



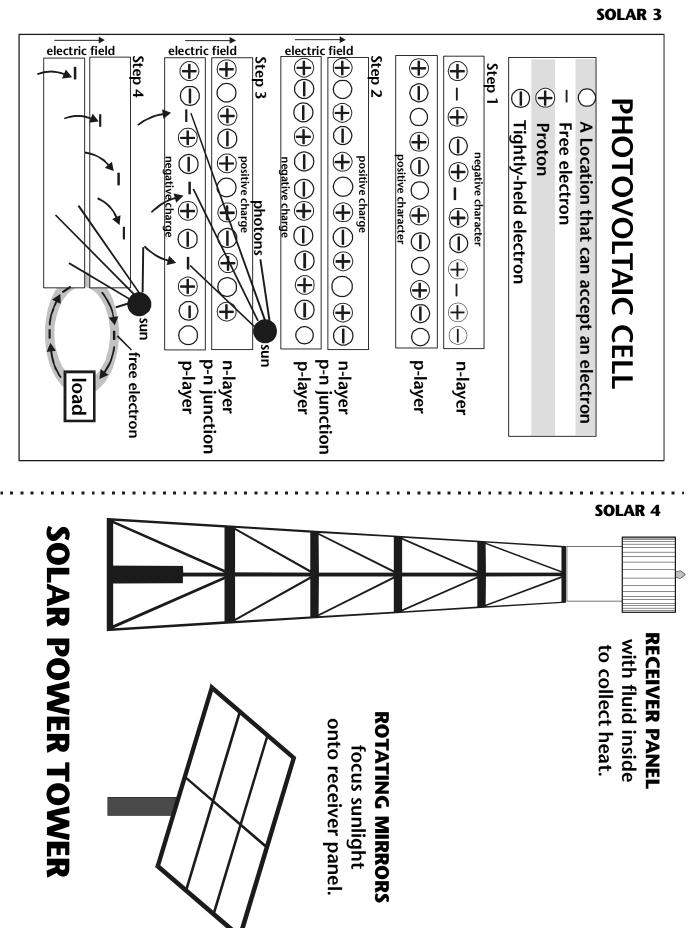
matter. This matter is emitted as radiant energy.

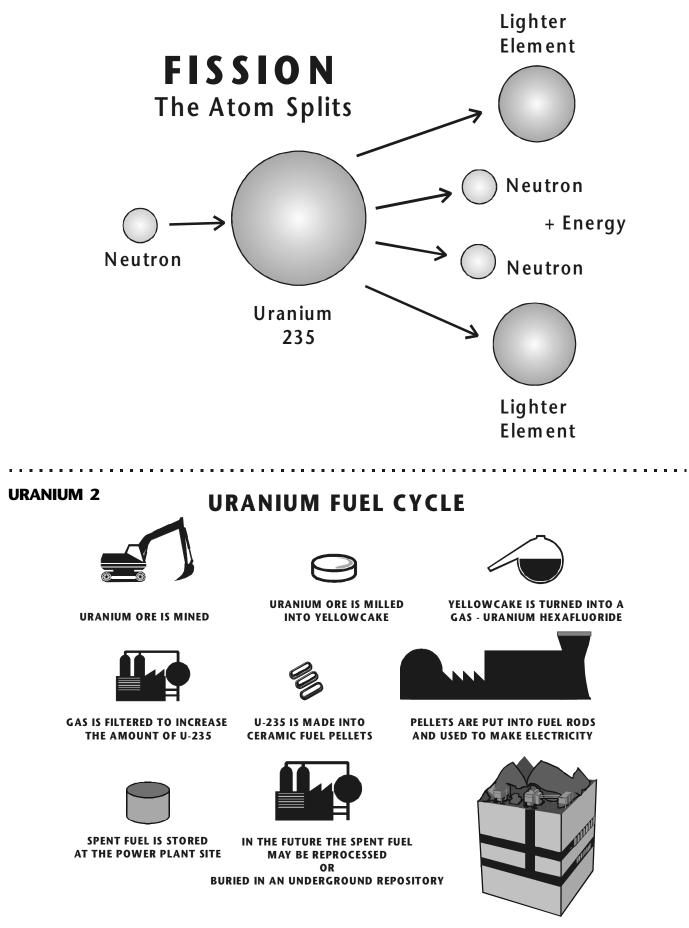
**SOLAR 2** 

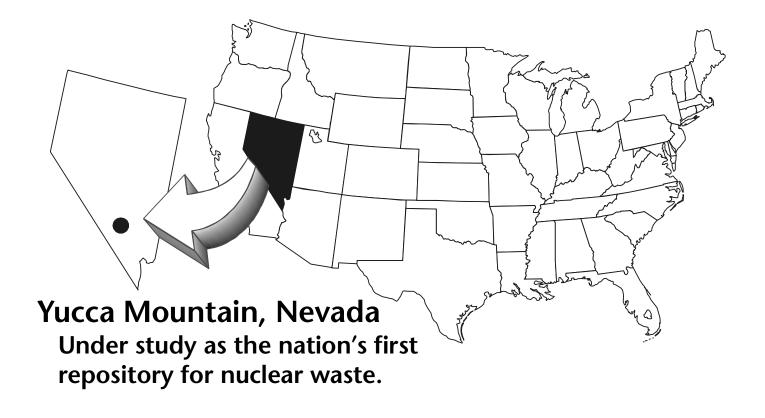


On a sunny day, a closed car works as a solar collector. Light rays pass through the glass, are absorbed, and changed into heat. The heat then gets trapped inside.

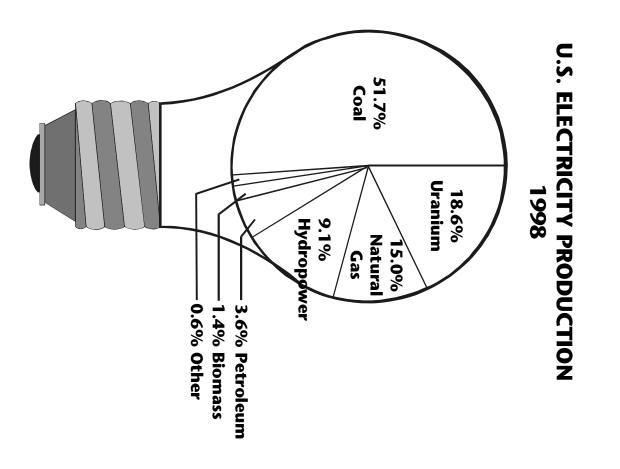
#### **SOLAR 3**

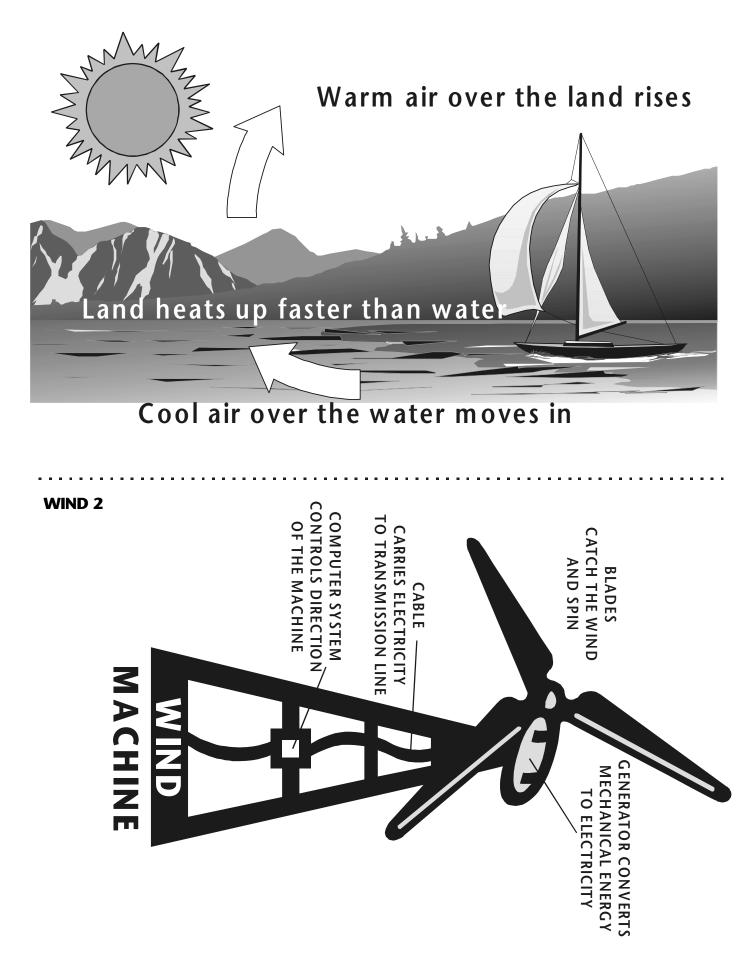






**URANIUM 4** 

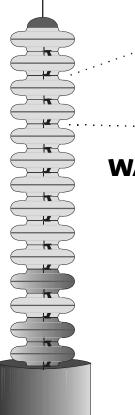




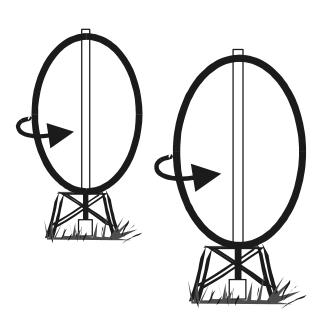
#### **PRODUCTION CAPABILITY OF WIND PLANTS**



WIND 4







**VERTICAL AXIS WIND MACHINES**