

DEFINE power grid

STATE the percent of energy that the U.S. imports

STATE the sector in the U.S. that utilizes the most energy

STATE the energy source that can provide the greatest amount of electricity due to its abundance

STATE the efficiency of the transfer of energy from fuel to electricity

STATE the fossil fuel with largest reserves worldwide

STATE the cleanest burning fossil fuel

STATE the world leader (country) in hydroelectricity

STATE the country that generates the most energy from wind

STATE the fastest growing renewable energy source for generating electricity

LIST the greatest petroleum producing countries from largest to smallest

LIST advantages of nuclear energy (fusion)

LIST energy sources that are ultimately powered by the sun

LIST nondepletable energy sources

OUTLINE carbon neutrality

OUTLINE how dams generate electricity

OUTLINE some potential drawbacks in using solar energy systems

OUTLINE which parts of the U.S. are most and least likely to install solar energy systems

OUTLINE how utility companies can best reduce peak demand events

CALCULATE & COMPARE energy efficiency between different modes of transportation

CALCULATE gallons of fuel necessary when given energy expenditures and distances

CALCULATE the amount of energy an household appliance uses over a given time

CALCULATE percentages

CALCULATE half lives and remaining masses

IDENTIFY energy sources as renewable or nonrenewable

IDENTIFY examples of fossil fuels and non fossil fuels

IDENTIFY disadvantages of coal use

IDENTIFY the type of power plant (electrical) that releases mercury and lead into the atmosphere

IDENTIFY environmental costs of oil use and extraction

IDENTIFY environmental costs of natural gas use and extraction

IDENTIFY disadvantages of nuclear energy

IDENTIFY the location where the most damaging nuclear accident in history occurred

IDENTIFY environmental costs of water impoundment (dams)

IDENTIFY disadvantages of wind power

IDENTIFY actions and behaviors that will save energy (limited to the book)

COMPARE and CALCULATE energy efficiency of two different TV's

DISCUSS how nuclear waste is currently stored and how it should be stored in the future

DISCUSS how south facing windows are passive solar designs

DISCUSS how governments can encourage energy conservation

DISCUSS the best and general ways that we can maximize our energy resources in environmentally sound ways

EXPLAIN why petroleum is the primary fuel used in transportation

EXPLAIN why uranium 235 is most commonly used in nuclear reactors

DEDUCE energy use trends using a world energy consumption by fuel line graph

ANALYZE a world energy consumption by fuel line graph

ANALYZE and use figure 12-4 to answer a question