

CHAPTER 05

A list of bullet points with important information is given to help you learn the subject matter of this chapter.

- 1.- Coal represents terrestrial plant matter.
- 2.- The principal pollutant in coals is sulfur.
- 3.- The primary means of electricity generation in the U.S. is coal.
- 4.- Oil forms from marine organic matter and generally occurs in greater quantities in younger rocks.
- 5.- The modern oil industry traces its origins to the well drilled in 1859 in Pennsylvania.
- 6.- The principal chemical element (in weight percent) in the fossil fuels is carbon.
- 7.- The fossil fuel resource with the greatest total energy potential is oil shale.
- 8.- Coals, in order of increasing heat value, are peat, lignite, bituminous, anthracite.
- 9.- Thermogenic gas is the natural gas formed as a result of the elevated temperatures resulting from deep burial.
- 10.- In 1850, the dominant energy source in the U.S. was wood.
- 11.- Today, the dominant energy source used in the U.S. to generate electricity is coal.
- 12.- Natural gas is composed primarily of methane.
- 13.- The country generating the greatest total amount of energy by burning peat is Russia.
- 14.- The world's largest oil province lies along the Persian Gulf.
- 15.- During the natural maturation of organic matter, there is: (1) a loss of water; (2) an increase in the C/H ratio; (3) an increase in the C/O ratio.
- 16.- Most of the natural gas used today is thermogenically derived.
- 17.- The total amount of ultimately recoverable liquid petroleum is estimated to be 2000 billion barrels.
- 18.- The major country which produces the largest amount of electricity by use of nuclear reactors is United States.
- 19.- Biogenic methane forms as the result of bacterial activity during shallow burial.
- 20.- Thermogenic methane forms as the result of increased temperature during burial.
- 21.- The principal raw material used in the manufacture of plastics today is petroleum.
- 22.- The primary source of energy in the United States in 1850 was wood.
- 23.- The primary source of energy in the United States in 1900 was coal.
- 24.- The primary source of energy in the United States in 1950 was coal.
- 25.- The primary source of energy in the United States in 2000 was oil.
- 26.- The primary use of coal in the United States today is generating electricity.
- 27.- The primary use of oil in the United States today is making gasoline.
- 28.- The United States Strategic Petroleum Reserve is located in salt domes in Texas and Louisiana.
- 29.- The primary cause of explosions in coal mines, and the one responsible for most of the deaths in these mines is methane.
- 30.- Relative to western coal beds, eastern coal beds are higher in rank.