

that specialize in petroleum and coal research. Geologists work with a variety of other specialists that include geophysicists, sedimentologists, geochemists and The U.S. Geological Survey's (USGS) Energy Resources Program has geologists Geology and chemistry are the major fields of science in the study of energy.

other scientists.

We use mainly non-renewable energy sources to make electricity. In the United States, coal is the number essential raw materials needed for we still could not live without oil, one energy source for generating electricit ilm, medicines, tar, synthetic we were able to generate all our electricity needs coal. Oil, gas, and coal are the



"Can the Earth's natural heat be usefully harnessed?" volcanologists are working to answer the question,

USGS geologists and Molten rock (magma) most high-temperature associated with active electricity generation. that have potential for geothermal resources the heat needed to create the Earth's crust provides volcanoes and deep in







The U.S. uses more aluminum than any other country, mostly in beverage cans. We recycle about 50 to 65 percent. Currently, there is a decline in recycling. In

greenhouse gases that are produced to make new cans from virgin materials. energy than converting bauxite to metal. Recycling cans also saves tons of

fact we are at the lowest rate in 15 years according to the Container Recycling

Institute. This becomes a huge energy waste. THINK, CAN DO!



pound of aluminum than it did 25 years ago, mainly because of recycling. Using recycled Today, it takes less electricity to produce a

bauxite. It takes huge amounts of electricity metal that is made from a kind of clay called Aluminum is a very lightweight, versatile to make aluminum from bauxite.

LING AND

studies ways to minimize the negative effects geologic energy resources contain materials of developing and using energy resources. especially if these materials are released in coal, oil, and natural gas from the Earth, to our Nation's economic health. Removing provides jobs for many people and contributes last for several years or longer. The USGS large amounts. These harmful effects can that can harm the environment (and people). however, can affect the environment. Most The development of energy resources



in the northeastern United States. Acid rain rain has affected lakes (and fish populations) released to the air. Large amounts of sulfur can source of sulfur emissions from burning coal mineral pyrite (the whitish area), the principal automobile paints and other coatings. and marble buildings or sculptures and even can also have corrosive effects on limestone mix with water in the air to form acid rain. Acid When burned, the sulfur in the pyrite may be This photomicrograph of a coal sample shows the

boom. This early oil production resulted in environmental effects that would later become part of the "reclamation" movement. fhe first well to strike oil in Southern California was drilled in 1892 and by the early 1900's California was in the midst of an oi

FOLDING INSTRUCTIONS

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