

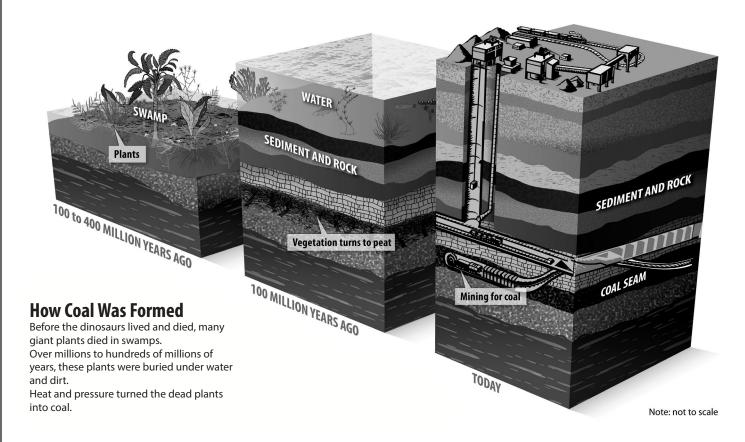
Coal looks like shiny, black rock. Coal has lots of energy in it. When it is burned, it makes heat and light energy. Many years ago, Native Americans burned coal to make pots. The early settlers didn't use much coal—they burned wood.

People began using coal in the 1800s to heat their homes. Trains and ships used coal for fuel. Factories used coal to make iron and steel. Today, we burn coal mainly to make electricity.

Coal is a Fossil Fuel

Coal was formed millions to hundreds of millions of years ago, before the dinosaurs. Back then, much of the Earth was covered by huge swamps. They were filled with giant ferns and plants. As the plants died, they sank to the bottom of the swamps.

Over the years, thick layers of plants were covered by dirt and water. They were packed down by the weight. After a long time, the heat and pressure changed the plants into coal. Coal is called a **fossil fuel** because it was made from plants that were once alive. The energy in coal came from the sun.



Coal is Nonrenewable

The coal we use today took millions of years to form. We can't make more in a short time. That is why it is called **nonrenewable**. There is a lot of coal in the United States. There is enough to last up to 250 years.

Digging for Coal

Most coal is buried under the ground. We must dig it out—mine it. If the coal is deep in the ground, tunnels called **mine shafts** are dug down to the coal. Machines dig the coal and carry it to the surface. Some mine shafts are 1,000 feet deep. This is called **deep mining**.

If coal is near the surface, miners dig it up with huge machines. First, they scrape off the dirt and rock, then dig out the coal. This is called **surface mining**.

After the coal is mined, they put back the dirt and rock. They plant trees and grass. The land can be used again. This is called **reclamation**.

Electricity

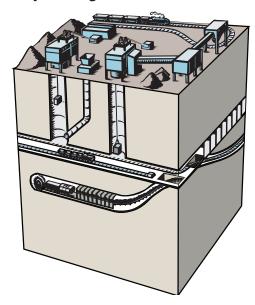
After the coal is mined, it is cleaned and shipped to market. Most coal is moved by trains to power plants and factories. Sometimes it is moved on barges along rivers.

Power plants burn the coal to make **electricity**. Coal is one of our most important energy sources. It gives us 39 percent of the electricity we use and almost one-fifth (18 percent) of our total energy.

Coal Can Pollute the Air

When coal is burned, it can pollute the air. Power plants and factories work hard to keep the **pollution** from getting into the air. They clean the coal before they burn it. They use **scrubbers** to clean the smoke before it goes into the air.

Deep Mining



Surface Mining

