



# Natural Gas

**Natural gas** is similar to air—it is a mixture of gases you can't see, smell, or taste. But it is different, too. It has a lot of energy in it. You can burn it to make heat. The early Chinese burned natural gas for heat to separate salt from sea water.

## Natural Gas is a Fossil Fuel

Natural gas was formed in the Earth long before the dinosaurs lived. Oceans covered much of the Earth, filled with tiny sea plants and animals.

When the plants and animals died, they sank to the bottom and were covered by sand. Layers of dead plants, animals, and sand built up over time and turned into **sedimentary rock**.

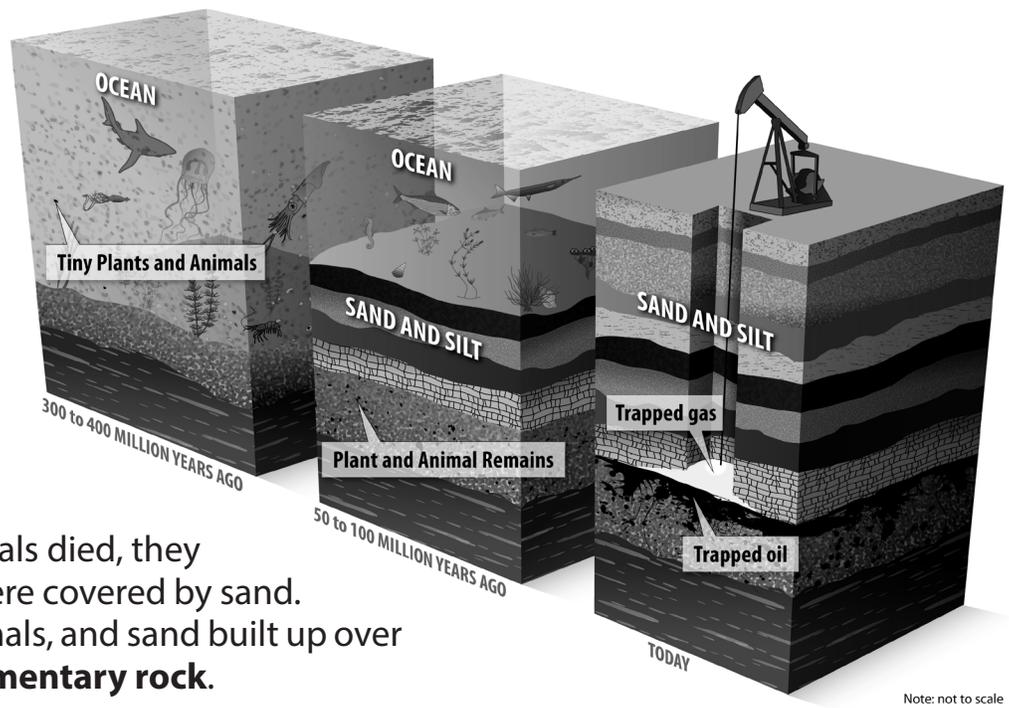
Heat from the Earth and pressure from the rock layers above turned the remains of the plants and animals into natural gas and petroleum. Since natural gas is made from the remains of plants and animals, it is called a **fossil fuel**.

The plants and animals received their energy when they were alive from the sun. It was stored in them when they died. This is the energy in natural gas.

## Natural Gas is Nonrenewable

The natural gas we use today took hundreds of millions of years to form. That's why we call it a **nonrenewable** energy source. We can't make more in a short time.

Garbage sometimes produces methane, the main gas in natural gas. **Methane** from rotting garbage is a **renewable** energy source because there will always be garbage and waste.



## Drilling for Natural Gas

Natural gas is found underground in pockets of rock. We drill **wells** into the ground to reach the gas so that it can flow to the surface. Some wells are a mile or more deep!

The natural gas is piped from the wells to machines that clean it and remove any water. An odor like that of rotten eggs is added to the gas so that leaks can be detected.



Photo courtesy of istockphoto

Natural gas is transported through pipelines.

## Transporting Natural Gas

We move natural gas from one place to another in **pipelines**. There are more than two million miles of pipeline all across the United States moving natural gas from wells to processing plants to our homes, factories, and buildings.

## We Use Natural Gas Every Day

Almost everyone uses natural gas. Most homes use natural gas for heat. So do schools and hospitals. Many stoves and water heaters use natural gas, too.

Factories burn natural gas to make products like paper and cement. Natural gas is also an ingredient in paints, glues, fertilizers, plastics, medicines, and many other products.

Power plants burn natural gas to make **electricity**. Natural gas is our number one provider of electricity and is often used in new power plants. Natural gas can be used to run cars, trucks, and buses.

## Natural Gas is Cleaner to Burn

Natural gas is the cleanest burning fossil fuel. It doesn't pollute the air as much as coal or oil. That's why it is a good fuel for heating our homes and making electricity.

**If connected end to end, natural gas pipelines in the U.S. would be long enough to stretch from the Earth to the moon three times!**



Photo courtesy of EPA

Some city buses are fueled by natural gas.