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Fossil Fuel Energy Production



One the most common ways to make things work is by burning fossil fuels. Fossil fuels can be used to make electricity in a factory, heat your home, or burned inside a common internal combustion engine to make a car go. Oil, coal and natural gas are all examples of fossil fuels. To make electricity, fossil fuels are burned which heats water to make steam. Steam is a gas and moves a lot faster than water. When it moves, it spins turbines (similar to large fan blades), which make the electricity. Fossil fuels produce a lot of electricity but they also create a lot of pollution.



The history of fossil fuels:

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How do we get energy from fossil fuels?

Fossil fuels have a lot of stored energy. To release that energy, we need to burn them. Just like when you burn wood in a fireplace, burning fossil fuels releases a lot of heat. Heat is a form of energy that we can trap and use.

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The environmental impact of fossil fuels:

There are many ways fossil fuels impact the earth. These ways include:

- Air pollution – Toxic gasses are released into the air.
- Acid Rain – These gases mix with water vapor in the air creating acid rain. Plants and animals can be harmed by acid rain.
- Global Warming – Greenhouse gasses like CO₂ are released into the air. They remain in the air and trap heat, warming the Earth.



The future of fossil fuel energy:

Fossil fuels are not a renewable resource. This means that if we continue to burn them, they will run out. Also, 97% of scientists agree that the burning of fossil fuels has led to

global warming and climate change. To prevent more damage to the climate, humans need to find other ways to generate energy. Some other ways to make energy include:

- The Sun
- The Wind
- Water and waves

Unfortunately, fossil fuels will continue to be used for many years. They are cheap and reliable. They are also available in many countries but they can't be used forever. They will run out and they do cause pollution. Due to this, we must find cleaner ways to get the energy we need.

Reading Comprehension Questions:

1. Why did we need a better source of energy in the mid-1700s?
2. Why
3. Describe
4. How is acid rain produced?
5. How can

Extension Questions

6. Why do you think a car's engine is called an internal combustion engine?
7. Why is it important that we find different ways to make our electricity? You must state at least two reasons.
8. Write

For the remaining questions, please refer to the video found below. It can be accessed through the URL or the QR code provided.



<https://goo.gl/y0XzpN>

9. How
10. What kind of fossil fuel formed from the decomposition of smaller organisms like zooplankton and algae?
11. What
12. Fossil fuels are the largest emitter of this greenhouse gas that leads to climate change.

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