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RENEWABLE AND NONRENEWABLE ENERGY



OBJECTIVE Upon completion of this lesson you will be able to:

- Identify different types of energy sources.
- Differentiate between nonrenewable energy and renewable energy.
- Determine what a smart grid is.
- Determine what greenhouse gases are.

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ESSENTIAL QUESTION

What is the best renewable energy source for your home, car and industry?



Define energy:

How we obtain it is what makes a difference. Some types are called clean energy and some types are called non-renewable energy (dirty energy). List some examples of clean energy sources:

Explain why they are considered clean:

Give an example of dirty energy:

Explain why it is considered dirty:

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What is the best renewable energy source for your home, car and industry?



Define fossil fuel:

Why do you think it is called a "fossil fuel"?

List some things that come to mind when you hear the term "non-renewable energy".

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Define Nuclear energy:

What are some viable solutions to getting energy from dirty energy sources?

What is renewable energy?

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What are examples of renewable energy?

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What is the best renewable energy source for your home, car and industry?

Each of the following sources of renewable energy that do not pollute the environment as much as fossil fuels do have advantages and disadvantages. Describe these renewable energies and how they are collected:



Solar:

Wind:

Hydroelectric power:

Ocean energy:

Geothermal:

Biomass:

Hydrogen:

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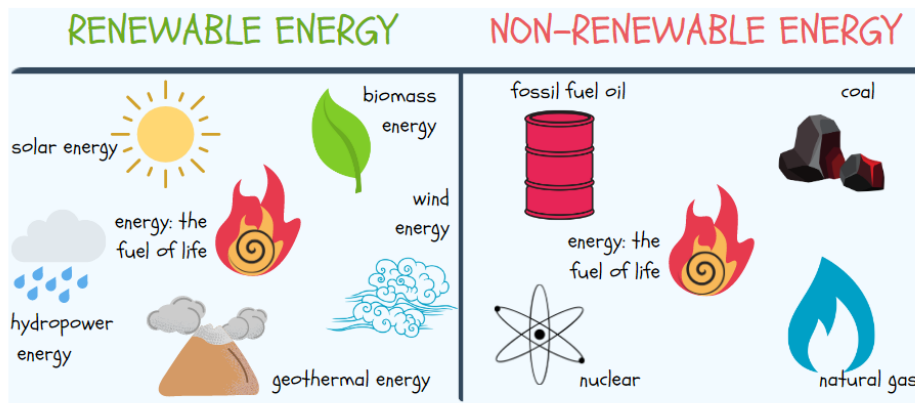
What is the best renewable energy source for your home, car and industry?

Define and give examples of a greenhouse gas and then describe how greenhouse gases affect the planet:



What other greenhouse gasses are present in the atmosphere, besides carbon dioxide?

HOW TO DRAW RENEWABLE AND NON-RENEWABLE ENERGY



RESEARCH:

What are the long-term effects of greenhouse gasses in the atmosphere?

Link: <https://youtu.be/yZSvHc0Px3w>

Resources:

Nuclear Energy: <https://www.eia.gov/energyexplained/nuclear/>

Renewable Energy: <https://www.nrdc.org/stories/renewable-energy-clean-facts#sec-what-is>

Greenhouse gases: <https://www.epa.gov/ghgemissions/overview-greenhouse-gases>

Energy 101: Sustainable Public Transportation <https://www.youtube.com/watch?v=M50ldGoNeMs>

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What is a smart grid?

Link: https://www.youtube.com/watch?v=JwRTPWZReJk&feature=emb_rel_pause