

Types of Renewable Energy

Here is where your presentation begins

Table of Contents

01

Solar

Craig, Siena, Fore

02

Wind

Simo, Doris, Will

03

Hydropower

Caroline, Chase,
Sese

04

Biomass

Iker, Cameron,
Hunter

05

Tidal

Sophia L, Ricky,
Brody

06

Geothermal

Sophie N, Carlos,
Luke

Contents of The Slides

Slide 1 contents

- At least 2 photos of your renewable energy
- The name of your renewable energy
- A sentence about how the energy works/what it is made from/what it uses
- Where people might use this type of energy (is it for cars? Houses? workplaces?)
- At least 2 countries that use this energy source

Slide 2 contents

- Your resources listed in MLA9
- Any photo credits for the two photos in slide 1
- The names of the students responsible for the section
- The name of your renewable energy

Be prepared to give a 1 minute presentation on your renewable energy source. All group members should attempt to speak in this presentation.



Solar Power

Siena: Solar power is the energy taken from the sun to power different things. It is made of

craig It is used in Germany and Italy.

Craig: People use solar power for cars, lights, and heating homes.



Solar Power

Citations

Geographic, National. "Solar Power Has Benefits as a Source of Alternative Energy." *Environment*, National Geographic, 3 May 2021, <https://www.nationalgeographic.com/environment/article/solar-power>.

Solar, Freedom. "7 Uses of Solar Energy." *Freedom Solar*, 19 Nov. 2021, <https://freedomsolarpower.com/blog/7-uses-of-solar-energy>.

, Vox. "Solar Power Home." *Vox*, 28 Apr. 2015, [https://cdn.vox-cdn.com/thumbor/hLpe_Qv-JaYw4FqXwWclKNe80io=/0x0:1000x750/1200x800/filters:focal\(0x0:1000x750\)/cdn.vox-cdn.com/uploads/chorus_image/image/46225418/shutterstock_72500704.0.0.jpg](https://cdn.vox-cdn.com/thumbor/hLpe_Qv-JaYw4FqXwWclKNe80io=/0x0:1000x750/1200x800/filters:focal(0x0:1000x750)/cdn.vox-cdn.com/uploads/chorus_image/image/46225418/shutterstock_72500704.0.0.jpg). Accessed 17 Feb. 2022.

Tidal Power

By Ricky, Sophia Lü, [Brody](#)

How does Tidal Power Work?

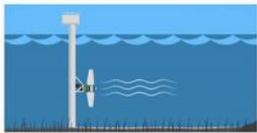


Tidal power is a source of energy produced and generated by tides and waves using a giant turbine and generator.

Tidal Power

Where do people use it?

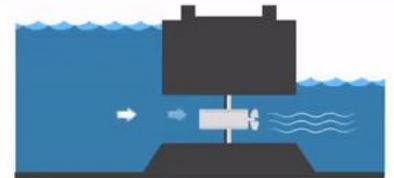
People normally use it to power up houses just like solar power does.



TIDAL TURBINES



TIDAL FENCES



TIDAL BARRAGES

HYDROPOWER

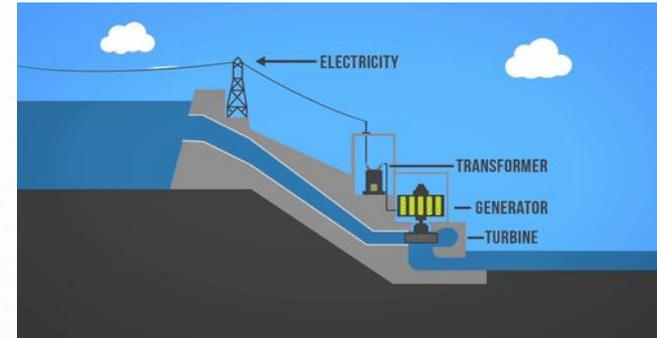
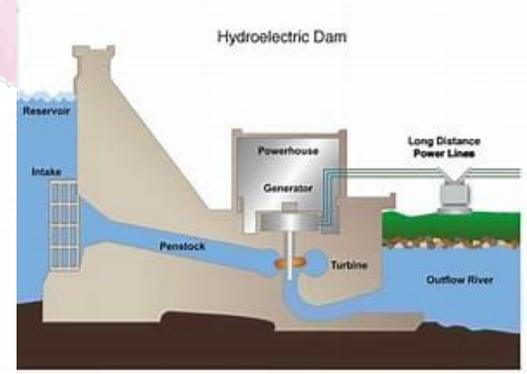
BY SÉSÉ, CAROLINE AND CHASE

1 Hydropower can be used to turn on the blades of a turbine to generate electricity. a dam is used to control the flow this can help grow plants faster. In 2019 it was one of the most used energy sources of total annual U.S. renewable electricity generation.

Sésé

2 **Top 2 Consumers**
The top two consumers of Hydropower are China and Canada

Chase
Hydropower turns water into electrical energy by going down a dam and the water's kinetic energy is used to turn into a turbine. Then a generator turns the turbine's mechanical energy into electricity



HOW DOES HYDROPOWER WORK?

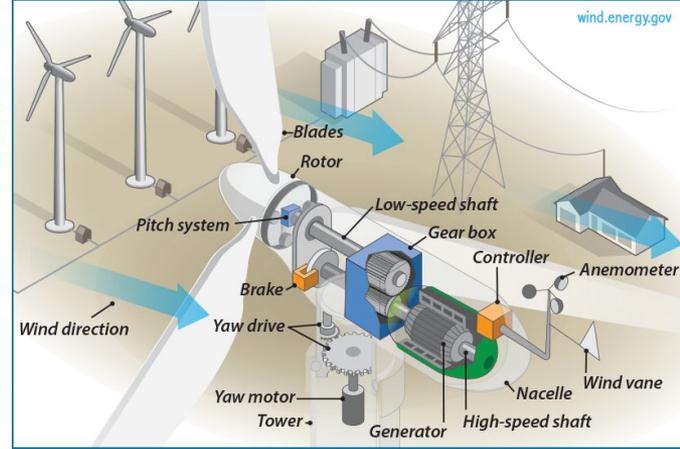
Giphy. "Hydroelectric Gifs - Get the Best GIF on Giphy." GIPHY, <https://giphy.com/explore/hydroelectric>.

"Hydroelectric Power Water Use Completed." *Hydroelectric Power Water Use* | U.S. Geological Survey, <https://www.usgs.gov/special-topics/water-science-school/science/hydroelectric-power-water-use#:~:text=World%20Distribution%20of%20Hydropower&text=China%20is%20the%20largest%20producer,Source%3A%20Energy%20Information%20Administration>).

Caroline



Wind Power



Wind turbines have blades that spin when they are pushed by wind. The blades are connected to a drive shaft that turns and electric generator when it turns.

People should use wind turbines to power their homes.

Canada and the United States use wind power



By Simo, Will, And Doris

Souza, Morgana, and Academic Web Pages. "Morgana Souza." *Center for Virology and Vaccine Research (CVVR)*, Morgana Souza <https://cvvr.hms.harvard.edu/Wp-Content/Uploads/2020/03/Cvvr-Header-Banner-Long-White-Bg.png>, 2 Feb. 2022, <https://cvvr.hms.harvard.edu/lab/barouch-laboratory/>.

Google Image Result for

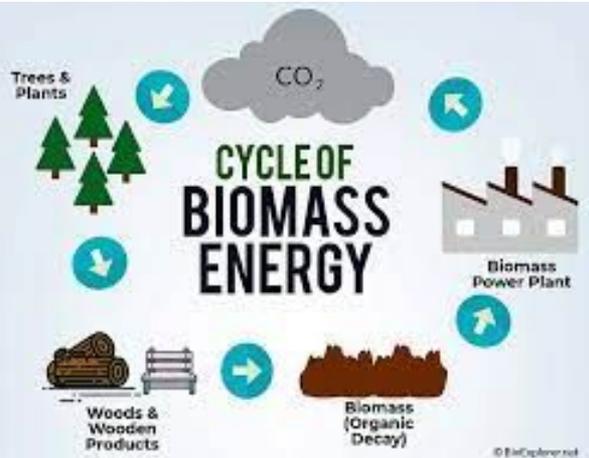
<https://Assets.justenergy.com/Wp-Content/Uploads/2020/11/Wind-Energy-Image-Definition.jpg>, Google, <https://www.google.com/imgres?imgurl=https%3A%2F%2Fassets.justenergy.com%2Fwp-content%2Fuploads%2F2020%2F11%2Fwind-energy-image-definition.jpg&imgrefurl=https%3A%2F%2Fjustenergy.com%2Fblog%2Feverything-you-need-to-know-about-wind-energy%2F&tbnid=Bipl1Siodm8ROM&vet=12ahUKEwjWiK3F5Ib2AhUPr3IEHcoSDhgQMygCegUIARDYAQ..i&docid=Ji9Ni3OLSbRQmM&w=600&h=400&q=wind+power&client=safari&ved=2ahUKEwjWiK3F5Ib2AhUPr3IEHcoSDhgQMygCegUIARDYAQ>.

www.ETEnergyworld.com. "World's Top 10 Countries in Wind Energy Capacity - ET Energyworld." *ETEnergyworld.com*, 18 Mar. 2019, <https://energy.economictimes.indiatimes.com/news/renewable/worlds-top-10-countries-in-wind-energy-capacity/68465090> .

"U.S. Energy Information Administration - EIA - Independent Statistics and Analysis." *Electricity Generation from Wind - U.S. Energy Information Administration (EIA)*, <https://www.eia.gov/energyexplained/wind/electricity-generation-from-wind.php>.

Biomass by Hunter, Cam and Iker

How does it work what does it fuel
Biomass works when people gather waste from plants and other sources but mainly plants. Then they bring the waste to a factory to burn it. After they burn it it turns into steam which while move in a rotary motion to cause and electricity generator attached to the turbine by an axle to move it creates a electric current. Its is mainly used to heat houses and it is also used in forest product industry.



Two countries that use biomass energy is ethiopia and nigeria.



“How Does a Steam Turbine Work?”

Petrotech, Inc.,

<https://petrotechinc.com/how-does-a-steam-turbine-work/#:~:text=Because%20steam%20turbines%20generate%20rotary,that%20produces%20an%20electric%20current.>

BioExplorer. “Top 20 Biomass Energy Pros and Cons: Biology Explorer.” *Bio Explorer*, 27 Dec. 2018,

<https://www.bioexplorer.net/biomass-energy-pros-cons.html/>.

BioExplorer. “Top 20 Biomass Energy Pros and Cons: Biology Explorer.” *Bio Explorer*, 27 Dec. 2018, <https://www.bioexplorer.net/biomass-energy-pros-cons.html/>.

<http://www.opengreenspace.com/opportunities-and-challenges/environmental/biomass-fuel/>

Citations in mla9 format!!!!

email, adminSend an, et al. “What Countries Use Biomass Energy the Most.” *Lisbdnet.com*, 11 Dec. 2021, https://lisbdnet.com/what-countries-use-biomass-energy-the-most/#What_Countries_Use_Biomass_Energy_The_Most.

Biomass by Cam, Hunter and Iker

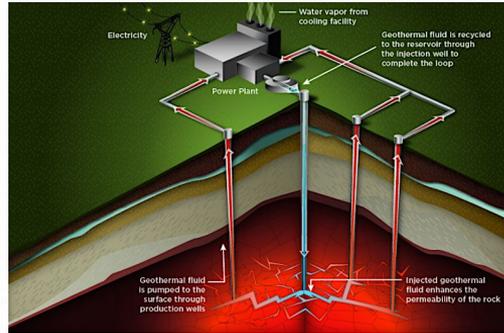
Geothermal Energy

What is Geothermal Energy?

Geothermal energy is heat in the earth. The geothermal comes from the greek word geo (earth)

Why is it important

Geothermal energy is important because it is one of the most reliable sources of power that heats and cools. And produces energy with a minimal environment impact



What does it do?

It produces heat continuously. When air conditioners and heat pumps release heat into the air outdoors a geothermal heat pump uses the ground as its heat. It releases heat underground or into a body of water.

Why do we need it?

To bath to heat building or to generate electricity.

How does it work?

Geothermal power plants use steam to produce electricity. The steam comes from reservoirs of hot water found below the earth's surface.

The steam rotates turbine that turns on a generator, and that produces electricity.

“Geothermal Electricity Production Basics.” *NREL.gov*,
<https://www.nrel.gov/research/re-geo-elec-production.html#:~:text=Geothermal%20power%20plants%20use%20steam,more%20below%20the%20earth's%20surface.&text=The%20steam%20rotates%20a%20turbine,a%20generator%2C%20which%20produces%20electricity.>

