Renewable Energy & Infrastructure

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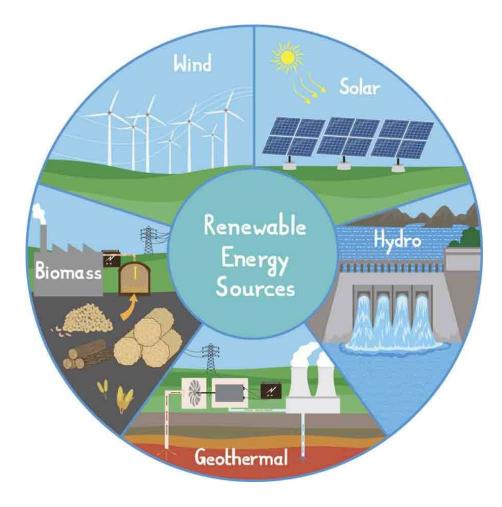
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Envirothon Key Topic #2 February 17th 2024

What is Renewable Energy?

*<u>Renewables</u>

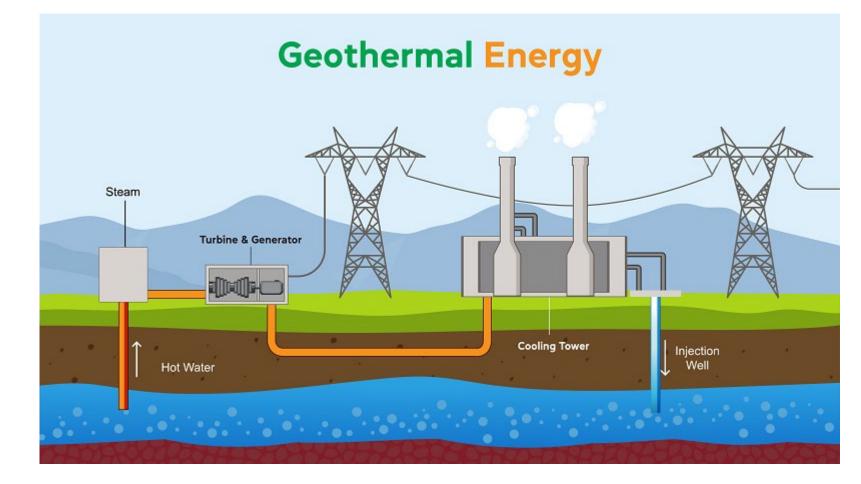
Renewable energy is usable energy that is collected from renewable resources which include sources like sunlight, wind, rain, rivers, tides, ocean waves and geothermal heat.



Geothermal

♦<u>Geothermal</u>

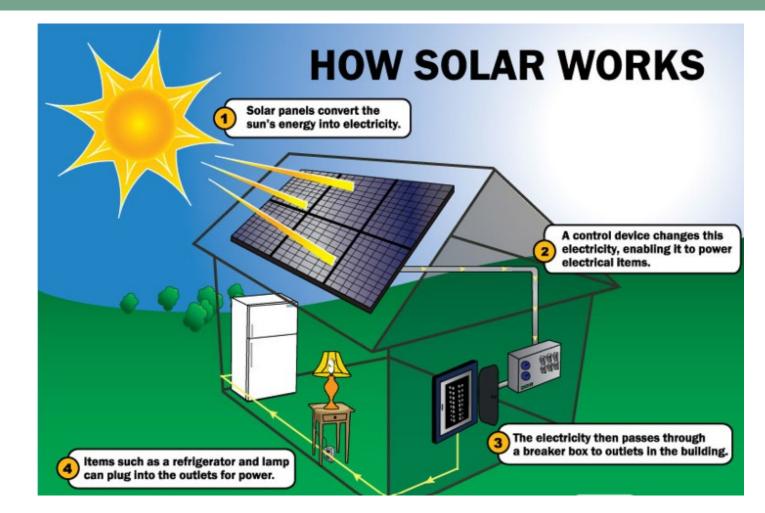
 form of renewable energy created by powering electrical generators with the heat of the earth.



Solar

*<u>Solar</u>

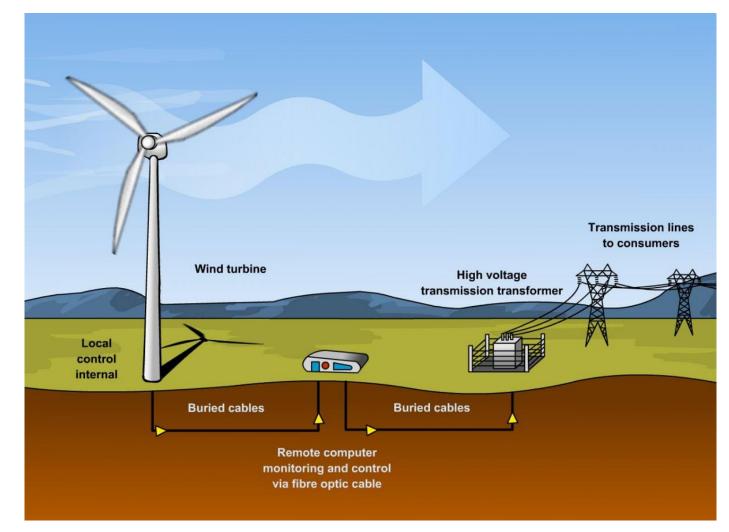
 \succ form of renewable energy that captures radiant light and heat from the Sun that is harnessed using a range of technologies such as solar power to generate electricity, solar thermal energy, and solar architecture.



Wind

∻<u>Wind</u>

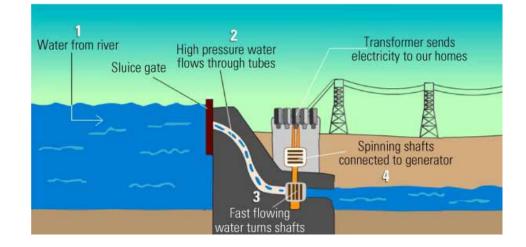
process by which we use
wind to generate
electricity or mechanical
power. Wind energy refers
to capturing the energy
from moving air and
converting it into
electricity.

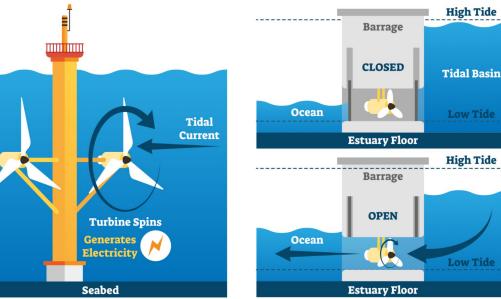


Hydro

∻<u>Hydro</u>

 hydro energy or water energy refers to capturing the energy in flowing or falling water and converting it into electricity.
When this energy is converted into electricity, it is referred to as hydroelectricity.

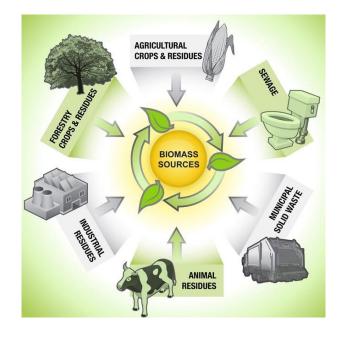


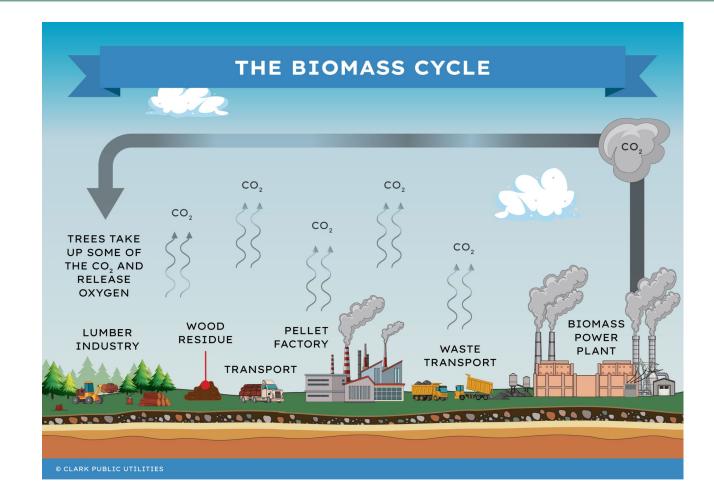


Biomass

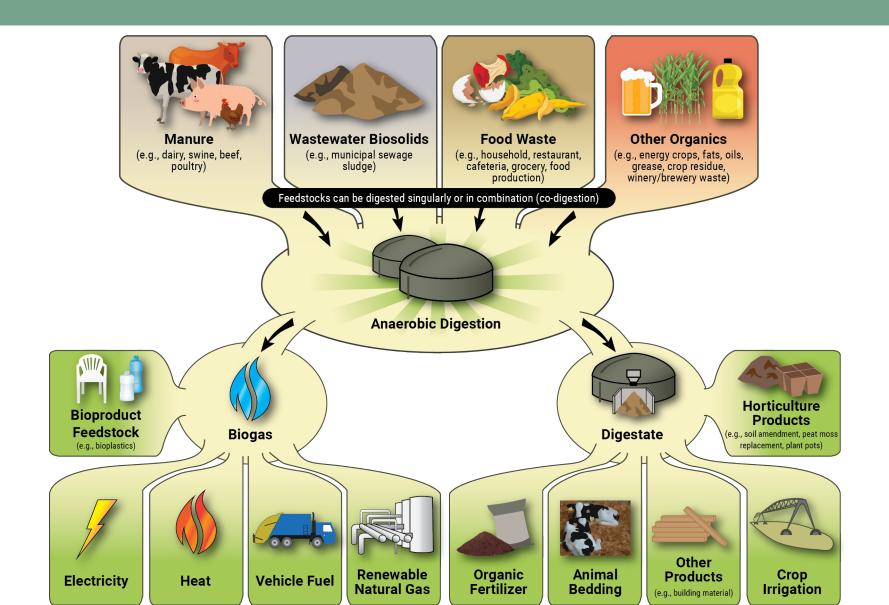
♦Biomass

 carbon-neutral electricity generated from renewable organic waste that would otherwise be dumped in landfills



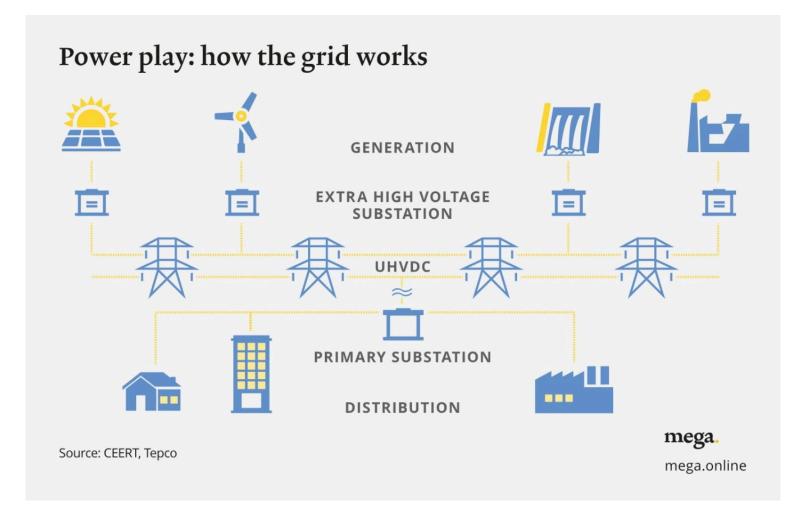


Anaerobic Digestion



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Renewable Energy Infrastructure



Questions ?

