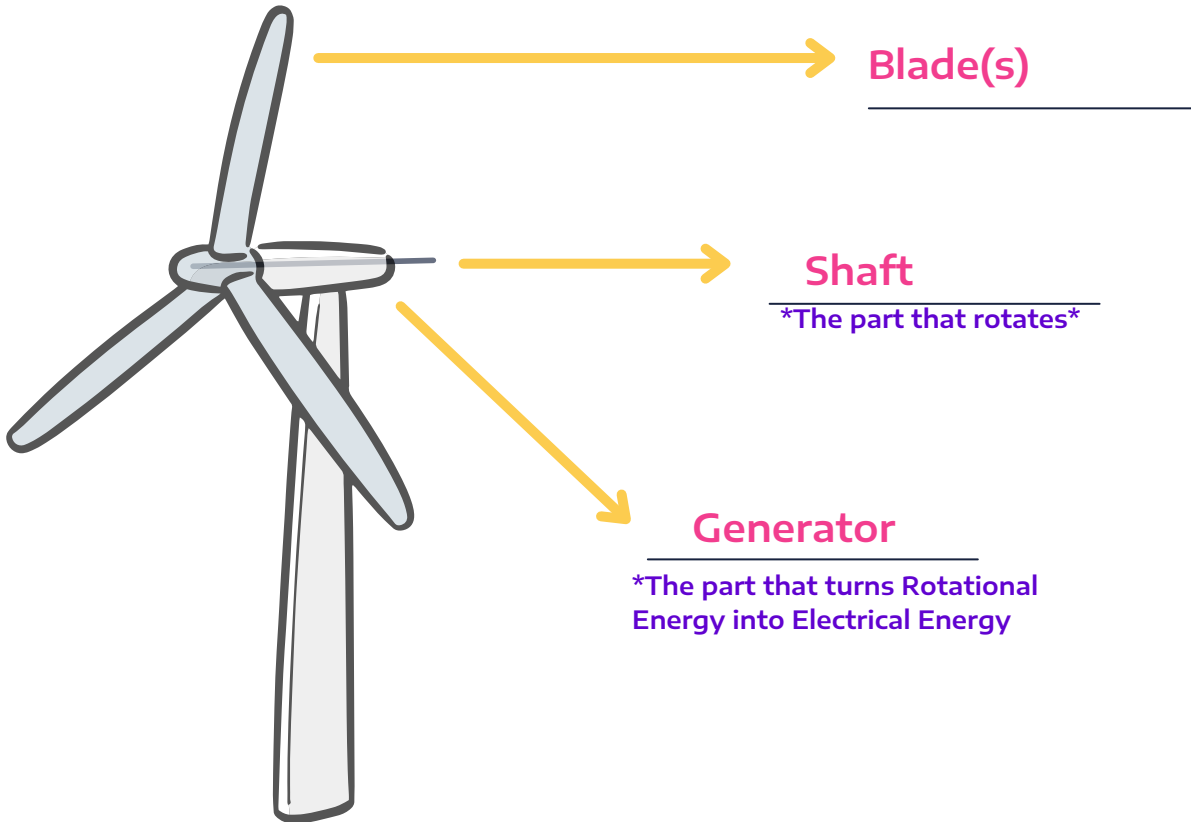


Wind Turbine- Activity Guide



Label the parts of this Wind Turbine



Why are these wind turbines facing different directions?



Wind is unpredictable... It blows different directions so they place turbines different ways so no matter where it is blowing, at least one turbine will be facing it and producing power.



Quiz



1. Why is STIIX-Ville exploring Wind Turbine technology in the first place?

~They need a new source of power and want to look into the feasibility of Wind Energy.

2. Name at least 2 common activities we do that require energy:

Hint: activities that use energy often use heat

Heating an oven, Air conditioning, Turning on a light, Keeping a refrigerator cool, etc.

3. Where does most of the energy we use today come from?

Hint:



Burning fossil fuels.

4. Describe 'Renewable Energy' or 'Green Energy' in your own words. How does it differ from burning fossil fuels?

~Renewable energy is creating energy/power from unlimited resources such as wind, the sun, waves, etc. It differs from fossil fuels because the coal they burn is finite and they do not produce harmful emissions into the atmosphere.

5. What is the process of taking energy from the wind and converting it to electricity?

~The wind rotates the blades, the blades rotate the generator, the generator produces electricity, the electricity is transferred to people.

6. Name at least one challenge with wind turbines?

~Hard to transport, do not make quite enough energy yet

7. What did Kelsey and Stefano (the engineers we met) do for work?

They are Wind Energy research engineers.