

Energy: How the Sun Gives us Energy

Year 8
Lesson 5

How the Sun Gives us Energy

- **WALT: Describe the process by which a variety of energy resources originate from the sun**
- I must be able to describe how the Sun relates to fossil fuels and the water cycle
- I should be able to explain how a variety of energy resources originate from the Sun
- I could prepare and carry out a presentation on this

We've already learnt that

- We get electricity from a variety of resources
- That these resources generally power a
.....
- Kinetic energy from the turbine is then turned intoenergy using a

Fossil fuels originate from the Sun because

- They originate from the fossils of animals and plants that died and became buried in rock millions of years ago
- The plants lived from energy from the Sun through the process of photosynthesis
- This is where oil, coal and gas originates

Wind, wave and hydro-electric energy originate from the water cycle

The sun is involved because:

1. The sun warms the air. Warmer air gets pushed out of the way by sinking cold air which causes wind - - - **wind energy**
2. The wind blows across the sea and causes waves - - - **tidal (wave) energy**
3. The Sun evaporates water which then forms rain. Rain can be trapped behind dams to drive turbines - - - **hydro-electric energy**

Your task

1. Colour and draw the diagram showing how the Sun gives us energy from p. 269

2. Choose one energy resource and prepare a verbal presentation. Include:
 1. What it is
 2. How the energy is gained from the Sun
 3. How electricity is produced from it
 4. Its advantages and disadvantages

Plenary

- Be ready to present your presentations