



NAWAI SECONDARY SCHOOL

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'Learning Lightens Life'

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Year 9 Basic Science Weekly Home Study Package 6: Batch 8

Lesson 10

Strand	Energy
Sub Strand	Energy Source and Transfer
Learning Outcome	<ul style="list-style-type: none"> Identify and list different sources of energy.

Sources of Energy

- Wood
- Wind

3. Hydro (Water)

- Electricity is produced when fast flowing water falls on water turbines
- Turbines converts energy in water to mechanical energy
- Generators convert mechanical energy to electricity



4. Solar

- Light and heat from the sun
- Solar cells changes light energy into electricity
- Solar panels are black-to trap heat energy



5. Geothermal

- Heat within the earth
- Renewable
- Eg. Savusavu hot spring



6. Ocean Thermal Energy Conversion

- Found in tropical oceans-water temperature differs from surface to deeper in sea

7. Ocean Waves

- Wave power device extract energy directly from motion of waves

8. Nuclear Energy

- Energy that is created in nuclear reaction
- Nuclei of atom is split, causing the energy to be released .

(Reference: Science Book 1 Page 88-89)

Activity

- Identify the sources of energy below.
 - Boiling cassava in hot spring _____
 - Monosavu water dam _____
 - Energy from nuclear atoms _____
 - Solar flood lights _____
 - Solar calculators _____
 - Heat from underneath the sea _____
- What does OTEC stands for?

THE END