



Answering Exam Questions: Solar power

Here are 4 common types of exam questions on solar energy and power:

- The origin of solar power and how solar energy is absorbed by the atmosphere
- The role of solar power as other forms of energy resources e.g. water power and wind power and in the carbon and nitrogen cycles
- How solar energy varies with latitude
- How we use our solar power in our homes

This FactSheet illustrates each type of question described common exam questions that students make and summarises the key facts that you need to know.

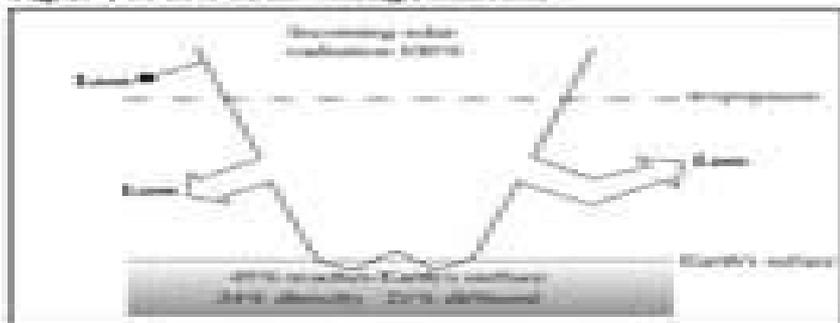
What is the origin of solar power?

The origin of solar power is nuclear fusion in the Sun. Fusion involves the joining of hydrogen nuclei in stars/batteries. This requires very high temperatures (1000 million °C) but releases huge amounts of energy.

How does the atmosphere affect this incoming energy?

Fig 1 shows a simplified version of what happens to incoming solar radiation.

Fig 1. The fate of incoming radiation



As you can see, less than half of the potential solar radiation reaches the Earth; the rest is absorbed in the atmosphere or is absorbed or lost to the atmosphere or is reflected from clouds/Earth's surface.

Fig 1 also shows that only about 24% of this incoming radiation is received directly at the earth's surface; the other 76% of radiation is absorbed, reflected and scattered.

Does the Sun power everything?

Answer:

This is a question which catches many students out. The key principle to understand is that solar power can act **directly** or **indirectly**.

What is the difference?

When sunlight heats up a black solar panel and heats water which boils our kettles, we are using the solar power **directly**. But when the sun powers electricity from a wind turbine, and we then use that to heat our kettles, we are still really using solar power - but in an **indirect** way.

Typical Exam Question

Explain why solar power may be described as indirect solar power.

Markscheme

Sunlight heats air;

blows fans;

creating an area of lower pressure;

so air flows in region of higher pressure is pulled in;

so wind/generator movement is generated;

so indirect power.

Be careful! The flow is an heating of air - so wind uses **heated** power. So solar power is really solar power. Similarly, winds help generate waves, so wave power can also be considered indirect solar power.

How does solar power drive the C, N and P cycle?

This question doesn't come up very often, but when it does, lots of students find it very difficult. But they shouldn't!

Consider the carbon cycle. From GCSE you primary school you know that:

Sunlight drives photosynthesis

This changes a gas carbon dioxide into a sugar which might then be used to make protein.

An animal eats the plant and converts the C atoms in the plant protein into protein in meat.

Be careful! The flow is not photosynthesis - so plants do not flow. So the flow of a few carbon atoms/sugars, so an indirect flow. Solar energy has driven a carbon atom from the atmosphere up through the food chain - i.e. has powered the C cycle.

To get top marks, you might also mention the role of solar power in non-biobased weathering.

Exam Questions And Answers Solar Energy

Jianjun Gao



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