



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 stored 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 shows you each type of question described common exam types that students make and remember the key facts that you need to know.

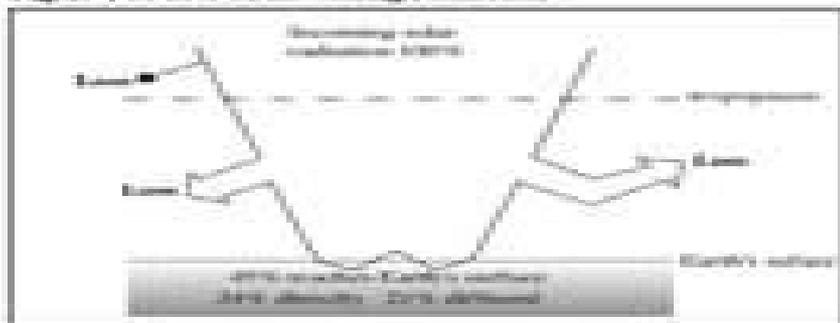
What is the origin of solar power?

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

How does the atmosphere alter 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 clouds or due to the temperature as 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, the reflection and scattering.

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 that to heat our kettles, we are still really using solar power - it just is an **indirect** way.

Typical Exam Question

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

Methodology

Highlight **direct** and

indirect uses.

Explain an **area** of **direct** power.

Explain **how** an **example** of **indirect** power is **used** in

an **indirect** **process** **powered** by **generated**

an **indirect** **process**.

Be remember: The Sun is the **source** of **all** or **an** **indirect** **area** **indirect** **power** for **indirect** **power** is **really** **solar** **power**. **Directly**, **which** **helps** **generate** **power**, an **area** **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 remember: The Sun is the **source** of **all** photosynthesis in our plants in our food. So the **big** of a **lot** **constant** **solar** **energy**, in an **indirect** **form**, **solar** **energy** **has** **driven** a **carbon** **atom** **from** the **atmosphere** **up** **through** the **food** **chain** to **be** **generated** the **C** **cycle**.

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

Exam Questions And Answers Solar Energy

SA Dillow



Exam Questions And Answers Solar Energy:

Exam Questions And Answers Solar Energy Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Exam Questions And Answers Solar Energy**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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