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General Knowledge - Science & Technology

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General Knowledge

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Question 1:

How many joules are in 1 kWh?

[ANSWER] Answer & Explanation:

Kilowatt-hours to joules1 kWh = 3.6 x 106 joules. In engineering notation, that's 3.6E6.

Question 2:

If the sun can produce solar power what can the moon produce?

[ANSWER] Answer & Explanation:

Unfortunately, the Moon has no source of energy, only the reflective dust on its surface. It doesn't react or anything like the Sun. So there is no source of power than can come directly from the Moon. (below) Edited by Kenney Curtiss However, if the sun does come in direct contact with our solar systems sun it is capable of harnessing electrical currants which can be stored and utilized for afar and distant missions/exploration's

Question 3:

How is solar energy trapped to provide electricity?

[ANSWER] Answer & Explanation:

In two ways. Photovoltaic (PV) cells and panels convert energy from sunlight into a flow of electrons (electricity). This can be on rooftops or in huge arrays out in the desert. Solar ovens and solar farms use mirrors to focus the sun's rays onto a central point. Concentrated Solar Power (CSP) stations typically heat a central tank of a medium (like molten salt) to more than 600° Celsius. This heat is used through steam to run electricity turbines, including overnight, as the heat is retained for many hours.

Question 4:

Is tidal energy better than solar energy?

[ANSWER] Answer & Explanation:

They are both good. They both produce electricity without any carbon emissions, so they contribute nothing to the problem of global warming. They are both renewable, which means they don't cost anything to run, apart from day to day maintenance, and the power continues to come even after we use it. Both have disadvantages: solar needs the sun to shine, and tidal energy only happens a few times a day and only in suitable locations.

Question 5:

How many watt does a Solar cell output?

[ANSWER] Answer & Explanation:

Solar cells are available in sizes (power outputs) ranging from a few milliwatts to kilowatts and more. It's all about size (the area and number of the cells) and a few other factors. Arrays of solar cells that some call solar panels will deliver energy in a range dependent on the wiring and size of the array, the attitude of the mount, and the geographic location and weather in the area in which it is erected. Just think it through and it will become apparent. Probably the most critical factor as regards the power output of the unit or assembly is termed the maximum power point. Power out is determined by current times volts. At some "happy medium" between maximum current and maximum voltage (neither of which is the "best" point of operation) is that magic combination of volts and amps that result in the solar cell delivering maximum power (with other factors optimized, of course). It's the electronics support circuitry that controls the point of best operation. Start reading and come up to speed on this amazing principal of power generation. Begin with the link provided. One thing to note is that efficiency of a panel is also taken into consideration are you using a Serengeti with a 13% solar cell efficiency or SPR 225 with an 18%. The efficiency effects the amount a solar cell will output.

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[WEB] Website: www.solvemyques.com

[EMAIL] Email: support@solvemyques.com