KEC

K Education Centre

GCSE Physics - Energy

P3: Energy Resources

Assignment Questions

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P3: Energy Resources

Q: Give advantages and disadvantages of nuclear fuel over other fuels.

Q: What is a renewable resource of energy? Give examples.

Q: A solar water panel heats the water flowing through it from 15 ° C to 70 ° C when water flows through at a rate of 0.020 Kilograms per second.

- a) Calculate the energy transferred by hot water from the solar panel.
- b) Estimate the output temperature of the hot water if the flow rate is reduced to 0.006 kg/s. Specific heat capacity of water is 4200 J/Kg⁰ C.
- Q: Give advantages and disadvantages of renewable energy resources.

Q: Why nuclear power cannot replace fossil fuels completely?

Q: Name the type of power station that can be started fastest.

Q: How variable demand of electricity is met?

Q: What does carbon neutral? Give an example of a biofuel.

Q: Which type of power station is the least suitable for connecting to the national grid to meet a sudden increase in demand. Give reason for your answer.