

Q1. (2022)

A network of transformers and transmission cables transfers electrical power from power stations to consumers.

a)

0 5 . 3 What is this network called?

[1 mark]

b)

0 5 . 4 Explain how using step-up transformers makes the network efficient.

[3 marks]

Q2. (2023)

0 5 Wind power and solar power are both renewable energy resources used to generate electricity for the National Grid.

0 5 . 2 The energy transferred by the National Grid in one second was 36 gigajoules (GJ).

Which of the following is the same as 36 gigajoules?

[1 mark]

Tick (✓) **one** box.

$36 \times 10^3 \text{ J}$

☐

$36 \times 10^6 \text{ J}$

☐

$36 \times 10^9 \text{ J}$

☐

$36 \times 10^{12} \text{ J}$

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