

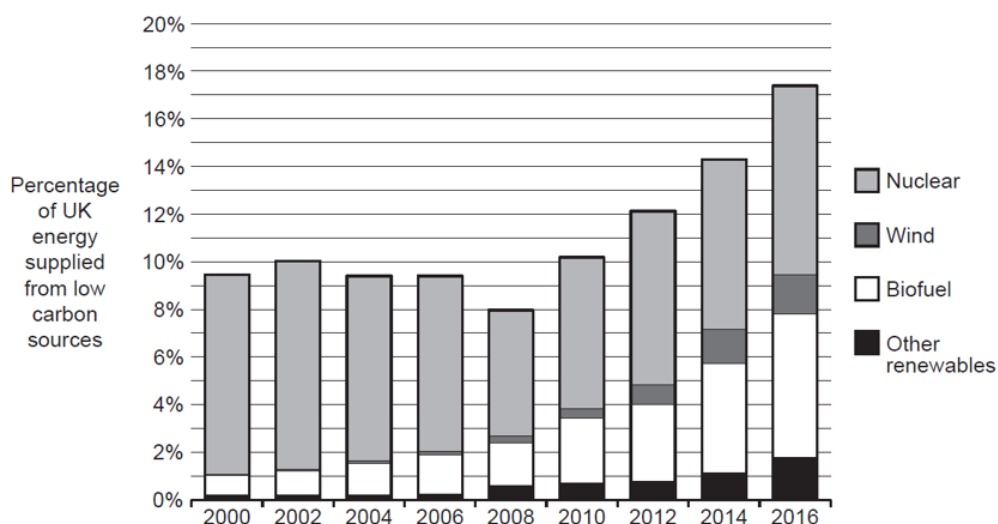
**GCSE Physics B (Twenty First Century Science)**  
**J259/01** Breadth in Physics (Foundation Tier)

**Question Set 39**

A low-carbon source causes very little carbon dioxide to be given off into the atmosphere.

Some of the energy supplied to the UK comes from low carbon sources.

**Fig. 1.1** shows how the percentage of UK energy supplied from low carbon sources has changed over time.



**Fig. 1.1**

- (a) (i) Describe the trend in the percentage of UK energy supplied by **biofuels**. [1]
- (ii) Suggest **one** reason for this trend. [1]
- (b) Ali and Ling discuss the trends shown in the data.



**Ali**

I think that, in the future, we will get more energy from the wind than from nuclear power.

- (i) Evaluate whether the evidence shown in **Fig. 1.1** supports Ali's statement [2]



**Ling**

The data shows that in 2016, over 16% of energy was supplied by renewable energy sources.

- (ii) State why Ling is **incorrect**.

[1]

- (iii) Using **Fig. 1.1**, estimate the correct percentage of energy that was supplied by renewable energy sources in 2016.

Percentage = ..... %

**[1]**

**Total Marks for Question Set 39: 6**

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