9.4 Energy Security: Changing Demand and Factors Affecting Supply: 10-minute Pack

AQA 8035 · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Define the term 'energy security' as it is used in discussions of national supply and demand.

(Total for Question 1 is 1 mark)

2 Give ONE reason why global energy consumption has risen in recent decades, with reference to population change.

(Total for Question 2 is 1 mark)

3 Suggest ONE reason why urbanisation increases energy demand in cities, referring to services and infrastructure.

(Total for Question 3 is 1 mark)

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4 Define the term 'fossil fuel reserve' in the context of national energy supply.

(Total for Question 4 is 1 mark)

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5 Describe TWO ways economic development in emerging economies increases energy demand, giving an example of each way.

(Total for Question 5 is 4 marks)

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Mark scheme · 9.4 Energy Security: Changing Demand and Factors Affecting Supply: 10-minute Pack

Question 1

a reliable and affordable supply of energy that meets a country's needs, oe **B1**

Answer: A reliable and affordable supply of energy that meets a country's needs.

Question 2

population growth has increased the number of people needing energy for homes, transport and industry, oe **B1**

Answer: Population growth has increased the number of people needing energy for homes, transport and industry.

Question 3

urbanisation concentrates people and services, increasing demand for electricity, heating, transport and water services in cities, oe **B1**

Answer: Urbanisation concentrates people and services, increasing demand for electricity, heating, transport and water services in cities.

Question 4

a deposit of coal, oil or natural gas that is known to exist and could be extracted commercially, oe **B1**

Answer: A deposit of coal, oil or natural gas that is known to exist and could be extracted commercially.

Question 5

way 1 identified, e.g. industrialisation raises demand for electricity and fuel; rising incomes lead to more car ownership and household appliances; urbanisation increases demand for services and infrastructure that use energy; expansion of commercial services and the digital economy increases electricity use, oe **B1**

an example of way 1, matching the way given, e.g. new factories in India need power; more households in China buying refrigerators and cars; growing Nigerian cities need more electricity for transport and hospitals; data centres and offices in Sao Paulo, oe **B1**

way 2 identified, a different way from way 1, oe **B1**

an example of way 2, matching the way given, oe **B1**

Answer: For example: increased industrialisation raises demand for electricity and fuel, such as new factories in India needing power; rising incomes lead to more car ownership and household appliances, for example more households in China buying refrigerators and cars. Urbanisation and growth of services also increase energy for transport, hospitals and offices.

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