



Interactive Example Candidate Responses

Paper 3 (May / June 2016), Question 4

Cambridge IGCSE™
Physics 0625



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4 Fig. 4.1 is a simplified diagram of a geothermal power station.

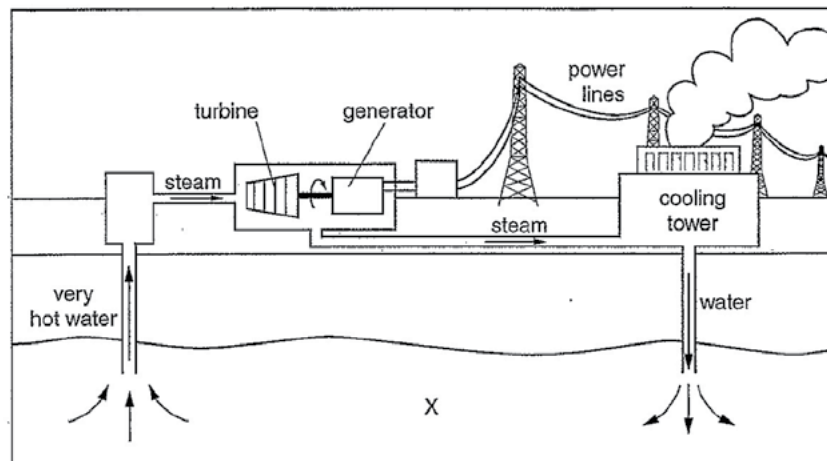


Fig. 4.1

(a) Describe the energy resource labelled X in Fig. 4.1.

Renewable

[1]

(b) Identify the useful energy transformation that takes place in the geothermal power station. Tick **one** box in each column.

input energy		output energy	
chemical	<input type="checkbox"/>	chemical	<input type="checkbox"/>
electrical	<input type="checkbox"/>	electrical	<input checked="" type="checkbox"/>
gravitational	<input type="checkbox"/>	gravitational	<input type="checkbox"/>
sound	<input type="checkbox"/>	sound	<input type="checkbox"/>
thermal	<input checked="" type="checkbox"/>	thermal	<input type="checkbox"/>

[2]

(c) State **two** disadvantages of obtaining energy from fossil fuels.

1. *It is better pollutant.*

2. *It is non-renewable.*

[2]

[Total: 5]

Select
page

Your
Mark

4(a)

4(b)

4(c)

Q4 Mark scheme

(a)	<u>hot rocks</u>
(b)	input: thermal output: electrical
(c)	any two from: air pollution OR atmospheric pollution climate change OR global warming OR greenhouse gases use up diminishing resources OR non-renewable

4 Fig. 4.1 is a simplified diagram of a geothermal power station.

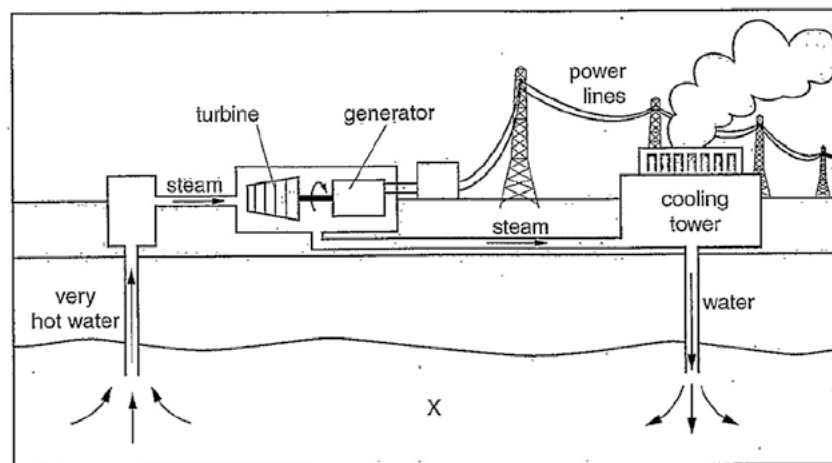


Fig. 4.1

(a) Describe the energy resource labelled X in Fig. 4.1.

hydro electric energy [1]

(b) Identify the useful energy transformation that takes place in the geothermal power station. Tick **one** box in each column.

input energy		output energy	
chemical	<input type="checkbox"/>	chemical	<input checked="" type="checkbox"/>
electrical	<input type="checkbox"/>	electrical	<input type="checkbox"/>
gravitational	<input type="checkbox"/>	gravitational	<input type="checkbox"/>
sound	<input type="checkbox"/>	sound	<input type="checkbox"/>
thermal	<input checked="" type="checkbox"/>	thermal	<input type="checkbox"/>

(c) State **two** disadvantages of obtaining energy from fossil fuels.

1. air pollution from the power station

2. noisy from the power station

[2]

[Total: 5]

Select
page

Your
Mark

4(a)

4(b)

4(c)

Q4 Mark scheme

(a)	<u>hot rocks</u>
(b)	input: thermal output: electrical
(c)	any two from: air pollution OR atmospheric pollution climate change OR global warming OR greenhouse gases use up diminishing resources OR non-renewable

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