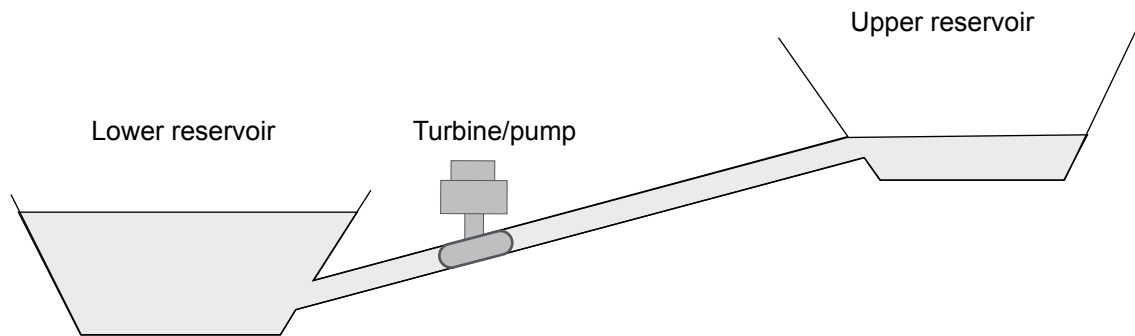


1 A small town uses a pumped storage system in order to meet sudden high demands of electricity.

The diagram shows a simple pumped storage system.



1 (a) (i) Describe how a pumped storage system is used to economically supply electricity during peak times. **[4 marks]**

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1 (a) (ii) Suggest why all small towns do not use pumped storage systems to meet peak demand electricity. **[1 mark]**

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1 (b) Another method to generate electricity is to burn fossil fuels. Burning fossil fuels produces carbon dioxide which is a greenhouse gas. The amount of carbon dioxide released into the atmosphere can be reduced by using carbon capture technology.

Describe how carbon capture helps to slow the increase of carbon dioxide released into the atmosphere. **[2 marks]**

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(Total 7 marks)

End

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