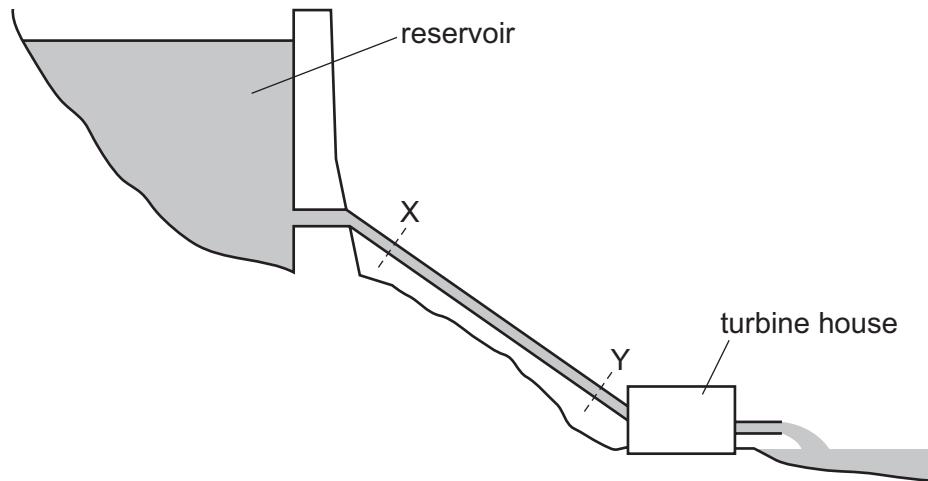


- 16 The diagram shows a hydroelectric power station.

The reservoir is linked to the turbines by a pipe of uniform cross-sectional area.



Water flows from X to Y at constant speed. Which statement about the change of energy of the water as it moves from X to Y is correct?

- A It gains both gravitational potential energy and kinetic energy.
- B It loses both elastic potential energy and kinetic energy.
- C It loses both elastic potential energy and gravitational potential energy.
- D It loses gravitational potential energy and gains elastic potential energy.