

- 15** A power station using coal as fuel has an average power output of 3000 MW. Coal is supplied by 20 trains each day. The efficiency of the station in converting the thermal energy released from the coal to electrical energy is 26%.

A mass of 1.0 kg of coal will release 33 MJ of thermal energy when burnt.

Which mass of coal does each train bring?

- A**  $2.5 \times 10^4 \text{ kg}$       **B**  $6.3 \times 10^4 \text{ kg}$       **C**  $1.5 \times 10^6 \text{ kg}$       **D**  $3.0 \times 10^7 \text{ kg}$