

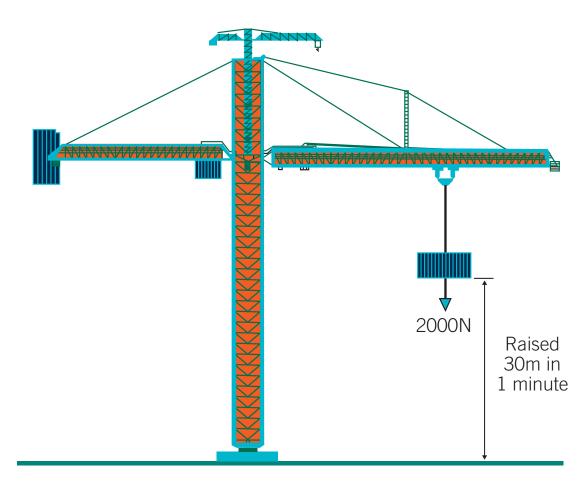
Power

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Power is the rate of transfer of energy

Mechanical power

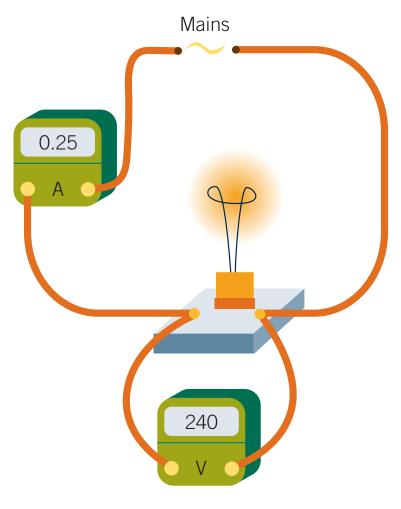


work done = force x distance

work done = $2000 \times 30 = 60,000 \text{ J}$

$$power = \frac{work done}{time taken} \quad power = \frac{60,000}{60} = 1000W = 1kW$$

Electrical power



power = current x voltage

watts = amps x volts

power = $0.25 \times 240 = 60W$







600kW



2kW



2.5kW



3kW

1 watt (1W) means 1 joule of energy per second