

### Answer on Question #51057, Physics, Mechanics | Kinematics | Dynamics

The default unit of energy in SI system is Joule, which is by definition equal to the energy transferred to object by moving it 1 metre by the force of 1 Newton. Thus,  $1 J = 1 N \cdot 1 m$  and the variants “joule” and “newtonmetre” are indeed units of energy. Since by definition of power

$$P = \frac{dA}{dt}, \text{ or average power over time } t, P = \frac{A}{t} \text{ and power is measured in watts,}$$

kilowatthour has dimension  $[P][t]$  and therefore it is also the unit of energy. As already mentioned, watt is a unit of power, not energy, thus the correct answer is **watt**.

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