

Practical electricity

$$P = IV$$

$\nwarrow$ voltage
 $\nearrow$ current
 $\downarrow$ power

$$\begin{aligned}
 P &= I V \\
 &= \left(\frac{V}{R}\right) (V) \\
 &= \frac{V^2}{R}
 \end{aligned}$$

$$\begin{aligned}
 E &= Pt \\
 &= IVt
 \end{aligned}$$

$$\begin{aligned}
 P &= I(RI) \\
 &= I^2 R
 \end{aligned}$$

kWh

$$① \quad W \div 1000 = kW$$

$$② \quad \cancel{kW} \times h = kWh$$

$$③ \quad kWh \times \text{cost} = \text{Total cost}$$

$\leftarrow$ energy

Renewable energy

Renewable energy is defined as ~~the~~ energy from sources that can be replenished naturally.

