

Answer on Question # 55678, Physics / Electric Circuits

Solution:

1. $E = P \times t$

$P = 1200 \text{ W} = 1.2 \text{ kW};$

$t = 1 \text{ Min} = 0.0167 \text{ Hr}$

$E = 1.2 \times 0.0167 = 0.02 \text{ kW}\cdot\text{h}$

2. $C = c_0 \times E$

$c_0 = 7 \text{ cents} / \text{kW}\cdot\text{h};$

$E = 0.02 \text{ kW}\cdot\text{h}$

$C = 7 \times 0.02 = 0.14 \text{ cents}$

Answer: 0.02 kW·h; 0.14 cents

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