

$$3. \quad H_{ug} = 26 \frac{\text{MJ}}{\text{kg}}$$

$$W_t = H_{ug} \cdot m_{ug}$$

$$W_t = \frac{W_{el}}{\eta} = \frac{1 \text{ kWh}}{0.33} = 3.03 \text{ kWh}$$

P_6
proble
time

$$w(C) = 0.65$$

$$w(S) = 0.03$$

$$\eta = 0.33$$

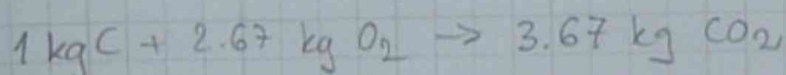
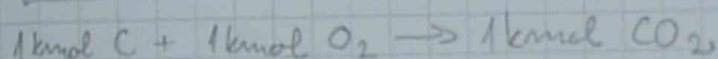
$$W_{el} = 1 \text{ kWh}$$

$$m_{ug} = \frac{W_t}{H_{ug}} = \frac{3.03 \text{ kWh} \cdot 3600 \text{ s}}{26 \cdot 10^3 \frac{\text{kJ}}{\text{kg}}} = 0.42 \frac{\text{kg}}{\text{kWh}}$$

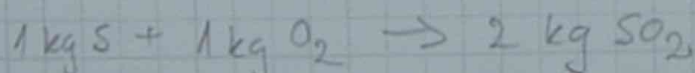
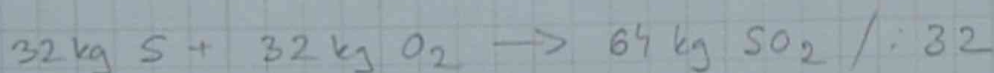
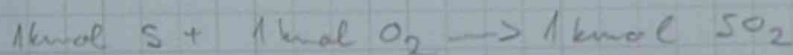
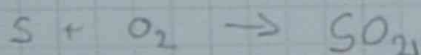
$$m(C) = 0.65 \cdot m_{ug} = 0.273 \frac{\text{kg}}{\text{kWh}}$$

$$\begin{aligned} m(\text{CO}_2) &=? \\ m(\text{SO}_2) &=? \end{aligned} \left. \begin{array}{l} \text{po kWh} \\ \text{d.eu} \end{array} \right\}$$

$$m(S) = 0.03 \cdot m_{ug} = 1.259 \cdot 10^{-2} \frac{\text{kg}}{\text{kWh}}$$



$$m(\text{CO}_2) = 3.67 \cdot 0.273 = 1.001 \frac{\text{kg}}{\text{kWh}}$$



$$m(\text{SO}_2) = 2 \cdot 1.259 \cdot 10^{-2} = 0.02518 \frac{\text{kg}}{\text{kWh}}$$