

PZI 8.

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

$$w(s) = 0.01$$

$$P_n = 400 \text{ MW}$$

$$\eta = 0.33$$

$$m = 0.74$$

$$m(\text{SO}_2) = ?$$

$$m = \frac{P \cdot t_{\text{god}}}{P_n \cdot t_{\text{god}}} \Rightarrow P = m \cdot P_n = 296 \text{ MW}$$

$$W_{\text{god}} = P \cdot t_{\text{god}} = 296 \text{ MW} \cdot 365 \cdot 24 \cdot 3600$$

$$W_{\text{god}} = 9334656000 \text{ MJ}$$

$$W_t \cdot \eta = W_{el} \Rightarrow$$

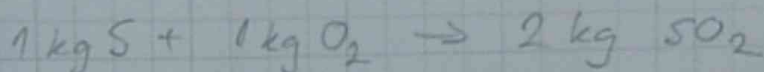
$$W_t = \frac{W_{el}}{\eta} = \frac{9334656000 \text{ MJ}}{0.33}$$

$$W_t = 28286836363.6 \text{ MJ}$$

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

$$m_{ug} = \frac{W_t}{H_{ug}} = \frac{28286836363.6 \text{ MJ}}{26 \frac{\text{MJ}}{\text{kg}}} = 1087955244.75 \text{ kg}$$

$$m(s) = 0.01 \cdot m_{ug} = 10879552.4475 \text{ kg}$$



$$m(\text{SO}_2) = 2 \cdot m(s) = 21759104.89 \text{ kg}$$

$$= \underline{\underline{21759.1 \text{ t}}}$$