

heat rate function:

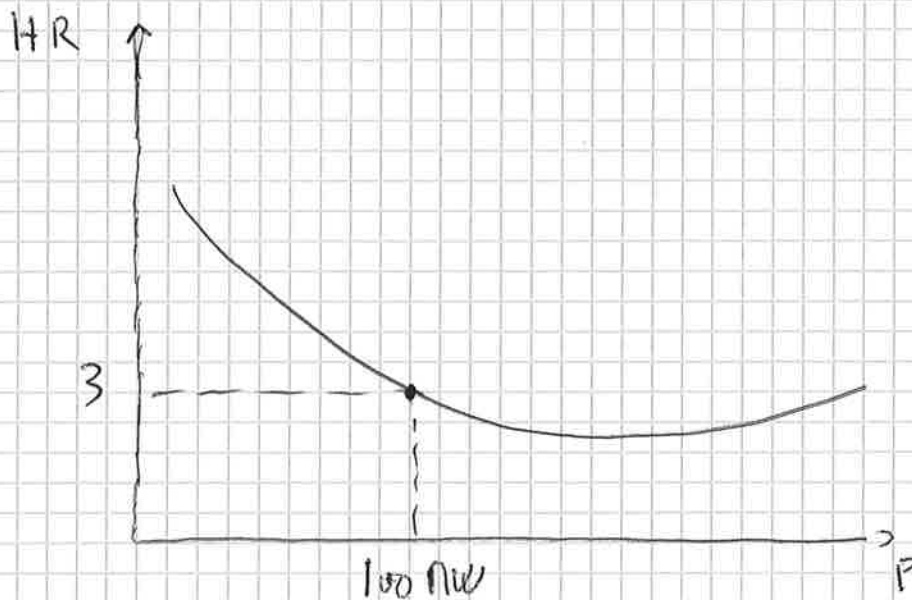
$$HR(P) \rightarrow \left[\frac{\text{MWh}_t}{\text{MWh}_e} \right]$$

$$P \rightarrow \text{MW}_e$$

~~1000 MWh $\rightarrow$ 0.3 MWh~~
~~1000 MWh $\rightarrow$ 0.3 MWh~~

$$1000 \text{ MWh} \rightarrow 0.3 \text{ MWh}_t$$

$$HR = \frac{a}{P_e} + b + c \cdot P_e$$



Input, output curve:

$$H(P) \rightarrow P_e \cdot HR(P) \rightarrow a + bP + cP^2$$

$$\left[\frac{\text{MWh}_t}{h} \right] \quad [\text{MW}_e] \cdot \left[\frac{\text{MWh}_t}{\text{MWh}_e} \right]$$

Cost function:

$$\rightarrow F \cdot (a + bP + cP^2)$$

$$C(P) = F \cdot H(P)$$

$$\left[\frac{\$}{h} \right] = \left[\frac{\$}{\text{MWh}_e} \right] \cdot \left[\frac{\text{MWh}_t}{h} \right]$$