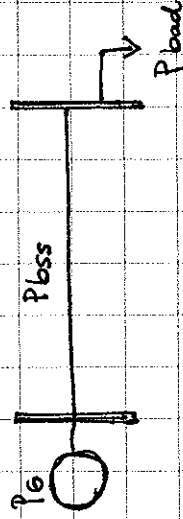


MOSTRACIÓN:



$$CMg_{gen} = \frac{\partial C_T(P_G)}{\partial P_G} = C'_T(P_G)$$

Costo marginal variable

de la unidad que engata
al sistema el MW ADICIONAL.

$$P_G = P_{Loss} + P_{Load}$$

$$CMg_{\text{barra load}} = \frac{\partial C_T(P_G)}{\partial P_{Load}} = C'_T(P_G) \cdot \frac{\partial (P_{Loss} + P_{Load})}{\partial P_{Load}}$$

$$= C'_T(P_G) \cdot \left(1 + \frac{\partial P_{Loss}}{\partial P_{Load}} \right)$$

$$CMg_{\text{barra load}} = CMg_{gen} \cdot \left(1 + \frac{\partial P_{Loss}}{\partial P_{Load}} \right)$$

Costo Marginal
de incrementar en 1 MW
la carga en barra load.

factos de
pérdida