

Petroleum Asset PI

$$PI = \frac{1}{I_0} \cdot \sum_{i=1}^n \frac{FCF_i}{(1+r)^i}$$

$$FCF_i = (\text{NETBACK}_i - \text{COST}_i) \cdot (1 - \text{TAX}_{\text{income}})$$

$$\text{NETBACK}_i = \text{REV}_i \cdot (1 - \text{TAX}_{\text{SIS}})$$

$$\text{REV}_i = q_i \cdot \text{PRICE}/q$$

$$\text{COST}_i = \text{COGS}_i + \text{OPEX}_i$$

$$\text{COGS}_i = q_{L,i}^\uparrow \cdot \text{COST}/qL + q_{O,i}^\uparrow \cdot \text{COST}/qO + q_{G,i}^\uparrow \cdot \text{COST}/qG + q_{W,i}^\uparrow \cdot \text{COST}/qW + q_{WI,i}^\downarrow \cdot \text{COST}/qWI$$

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