

ABSTRACT

The drastic changing on the oil and coal price in the world cause the previous feasibility study on the several power plant project arise a new question, are the previous feasible project still valid to be continued at such as condition ?

The purpose of this thesis is to re-evaluate critically on the previous feasibility study for the steam power plant 2x100 MW, especially at financial aspect, because of the fundamental changing on the several assumption that have been applied in the calculation between previous assumption and the now real condition.

The feasibility indicators will be used are Net Present Value (NPV), Internal Rate of Return (IRR), Net Benefit Cost-Ratio (NBCR), Gross Benefit Cost Ratio (GBCR) and Payback Period (PP). These indicators are used as dependent variables.

Beside it, the case of coal price changing, the construction cost changing, the equity ratio changing, the electricity price, the loan interest rate and the loan return period are used as independent variables.

This thesis tries to analyze the previous feasibility study in several aspects, such as:

- Analyze on the calculation process and procedures*
- Analyze on the assumption values that have been used in the calculation*
- Sensitivity analysis for the dependent variables (NPV, IRR, NBCR, GBCR and PP) as effect of the independent variables changing.*

This thesis shows, in the definitely different condition of assumption, the similar project is still feasible to be continued, completed with the sensitivity level of variable changing

Hopefully, this thesis has any contribution for invest development in Indonesia