

ANALISIS KELAYAKAN INVESTASI MESIN PEMBANGKIT LISTRIK DI PT SUNGAI BAHAR PASIFIK UTAMA

ABSTRACT

Research was conducted in PT Sungai Bahar Pasifik Utama, Muaro Jambi, Jambi Province to determine the electrical energy generated from the rest of processing fiber and shell of palm to transmit the energy to a housing around the location factory. On this research will increase the engine power plant costs Rp 13.400.000.000 with economical life of 10 years and then analyzed using the analysis of feasibility of investment by 4 of investment valuation (Payback Period, Net Present Value, Internal Rate of Return and Profitability Index) and Break Even Point analysis. As for the results of the value is from Payback Period criterion of 96.27 months or 8,02 years, NPV equal to Rp 1,032,376,973 (positive), IRR of 13.02% and magnitude of PI is 1.077 The calculation result of Break Even Point is the result 128.933 houses which must be received by PT SBPU amounting to Rp 18,356,164,384. Thus, the investment of electricity generation machine feasible to be implemented because it meets the requirements of economic feasibility.

Keywords : *palm oil, fiber and shell, electrical energy, investment valuation*