

Techno-economical design and analysis of cogeneration system by steam back pressure turbine

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Abstrak

Turbine steam back pressure as an initial procedure in designing cogenerating by evaluating various condition or the thermodynamics properties not considered points. Determination of boiler fuel consumption have been applied to approach steam generation efficiency, Techno-economical analysis is based on the calculation of IRR, NPV and PBP for 15 years cash flow. Optimum plan capacity should be invested with PBP no longer than 5 years, highest IRR and NPV have been met by simple Pascal Programming