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## EXERGY ANALYSIS OF COMBINED CYCLE COGENERATION SYSTEMS A

PDF - Search results, exergy analysis of combined cycle cogeneration systems a thesis submitted to the graduate school of natural and applied sciences of middle east technical university, Exergy and Efficiency Analysis of Combined Cycle Power Plant Padma Dhar Garg\*, Satender Dehiya\*, Ankit Barasiya\*\*, Aditya Rahangdale\*\*, Vijay Shankar Kumawat\*\*\*, Request PDF on ResearchGate | Exergy analysis of a combined power and cooling cycle | This paper presents a comprehensive exergy analysis of a combined power and cooling cycle which combines a Rankine and absorption refrigeration cycle by using ammonia-water mixture as working fluid., The exergy analysis is very important tool to find the actual irreversibilities in different components of any cycle/system and performance based on exergy analysis gives the real assessment of the system. In this present work energy and exergy analysis of cogeneration plant is being carried out.,

Schematic diagram for a Single Block of Sabiya Combined Cycle Power Plant [14]. 3.

Performance Analysis The present study introduces a comparative energy and exergy analysis for Sabiya power plant. The analysis investigated the effects of different ambient temperatures, pressure ratios, pinch point temperatures, and condenser pressures., Energy and exergy analysis of a combined refrigeration and waste heat driven organic Rankine cycle system were studied theoretically in this paper. In order to, 47 Majed Alhazmy et al.: Exergy Analysis of Combined Effect of Evaporative Cooling and Steam Injection on Gas Turbines Performance Enhancement in Hot and Humid Climates respectively. Processes 1-2s and 3-4s are isentropic presenting the process in an ideal cycle., thermodynamic deficiencies are determined by the exergy analysis evaluating the degree of exergy destruction [5-7]. The entropy-generation of the components is precisely calculated in the exergy analysis and this enables us to forecast the thermodynamic performance of an energy system and the efficiency of the system components [8].

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