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The potential performance of optimized gas-steam combined cycles built around latest-generation gas turbine engines is analyzed, by means of energy/exergy balances. The options here considered are the reheat gas turbine and the H-series with closed-loop steam blade cooling.

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**Combined Cycles
Using Latest
Generation ...**

The current study presents detailed energy and exergy analysis of a Rankine cycle of a triple pressure combined cycle power plant (CCPP) using the design data. The effects of several operating parameters on the turbine output, efficiencies, and exergy destruction

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were investigated.

Energy, exergy and parametric analysis of a combined cycle

...

Fateme Ahmadi
Boyaghchi, Hanieh
Molaie, Investigating
the effect of duct
burner fuel mass flow
rate on exergy
destruction of a real
combined cycle power
plant components
based on advanced
exergy analysis,

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Energy Conversion and
Management, 10.1016/
j.enconman.2015.07.00
8, 103, (827-835),
(2015).

Exergy analysis of a 420 MW combined cycle power plant ...

Firstly, a sophisticated thermodynamic model of this combined cycle is established and validated in MATLAB, followed by detailed parametric studies on energy and exergy

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distributions in each
sub-cycle. Trade-offs

among those sub-
cycles are then

investigated under
design and off-design
conditions.

Energy and exergy analysis of the combined cycle power ...

The exergy analysis
identifies the sources
of irreversibility in the
system and aids in the
evaluation of losses

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and outputs by examining their quality. Exergy analysis of the combined Brayton/Rankine power cycle of NTPC (National Thermal Power Corporation) Dadri India is done. Theoretical exergy analysis is carried out for different combined cycle

Exergy and Efficiency Analysis of Combined Cycle

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Exergy Analysis of 144
Mw Combined Cycle
Power Plant Kotri
Pakistan

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Analysis of 144 Mw
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Exergy analysis of a
solar combined cycle:
organic Rankine cycle
and absorption cooling
system ... exergy
analysis assesses the
irreversibility of each

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Cogv
component of the system. The exergy of each sub-system is a measure of its distance from equilibrium. Thus, an exergy

Exergy analysis of a solar combined cycle: organic Rankine ...

In this article, the energy-exergy analysis of a gas-fired combined-cycle power plant components has been comprehensively

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investigated in which also the effects of different values on gas and steam cycles equipment have been analyzed. To sum up, the following points can be extracted from the current assessment:

Energy-exergy performance assessment with optimization ...

The highest net power production, thermal

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efficiency, and exergy efficiency of the gas turbine (GT)-ORC combined cycle are found at 40 bar and 240°C for rORC, reaching 8,723 kW, 47.63%, and 67.33%, respectively. This means that almost 1,605 kg-CO₂ / h reduction in CO₂ emission is possible with the use of rORC as a bottoming cycle in the GT.

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Energy, Exergy, and Parametric Analysis of Simple and ...

Abstract. In this paper, exergy analysis is used to evaluate the performance of a combined cycle: organic Rankine cycle (ORC) and absorption cooling system (ACS) using LiBr-H₂O, powered by a solar field with linear concentrators. The goal of this work is to design the

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cogeneration system
able to supply
electricity and ambient
cooling of an academic
building and to find
solutions to improve ...

Exergy analysis of a solar combined cycle: organic Rankine ...

Performing exergy
analysis of a 420 MW
combined cycle power
plant Ameri et al., [2]
concluded that
maximum exergy loss

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occur in combustion chamber and of the total exergy losses, 83% losses occur ...

Exergy analysis of a 420 MW combined cycle power plant ...

In a natural-gas-fired combined cycle power generation unit exergy analysis was performed in the plant and the amounts of exergy destruction were presented for the components.

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Exergy analysis of a natural gas fired combined cycle ...

Energy and exergy analysis has been presented for most of the systems. The energetic and the exergetic COP for each system are presented. Renewable energy sources are also discussed including geothermal, solar, and wind energy, a with combination with

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refrigeration systems
in different industrial
and residential
applications.

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Energy and Exergy Analysis of Refrigeration Systems ...

A combined gas power cycle with humidification has been investigated using the advanced exergy analysis. The combustion chamber and humidifier were

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found to be the components with the largest exerg...

Advanced exergy analysis of a combined gas power cycle ...

Exergy Analysis of Combined Cycles: Part 1—Air-Cooled Brayton-Cycle Gas Turbines M. A. El-Masri Department of Mechanical Engineering, Massachusetts Institute of Technology,

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Cambridge, MA 02139

**Exergy Analysis of
Combined Cycles:
Part 1—Air-Cooled ...**

Exergy analysis of an
operating combined
cycle plant

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cycle plant ...**

Furthermore, with
shrewd configurations,
a lower exergy
destruction in the

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combustion chemical transformation can be achieved. This paper focus on a second law analysis of a CLC combined cycle power plant with CO₂ sequestration using syngas from coal and biomass gasification as fuel.

Exergy Analysis of a Syngas-Fueled Combined Cycle with

...

Comparisons with the

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literature and simulation results are discussed first for the standalone S-CO₂ BC. Energy analysis is done for the combined cycle to inspect the parameters affecting the cycle performance. The second law efficiency is calculated, and exergy losses incurred in different components of the cycle are discussed.

Energy and Exergy

Download Free Exergy Analysis Of Combined **Analysis of the S- CO₂ Brayton Cycle**

Performance
evaluation of a
combined cycle power
plant (CCPP) is
generally attempted
using first law of
thermodynamics based
on energy and mass
balance methodology.
For detailed
component wise
performance analysis,
exergy-based
evaluation based on

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second law of thermodynamics is gaining increasing importance.

Combined cycle power plant performance evaluation using ...

EXERGY ANALYSIS OF
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COGENERATION
SYSTEMS Çolpan, Can
Özgür M.Sc.,
Department of
Mechanical
Engineering

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Supervisor: Prof. Dr.
Tülay Yeşin May 2005,

120 pages In this
thesis, several

configurations of
combined cycle

cogeneration systems

proposed by the author
and an existing

system, the Bilkent

Combined Cycle

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