

Gas Turbine Combined Cycle Power Plant

Gas turbine combined cycle power plants offer high efficiency and operational flexibility. They combine gas and steam turbines to extract more energy from the fuel.



ADDITIONAL IMAGES



Overview

High-Efficiency Power Generation

A Gas Turbine Combined Cycle (GTCC) power plant is an advanced energy solution designed for high efficiency and operational flexibility. By integrating gas and steam turbines, the system extracts maximum energy from fuel, utilizing hot exhaust gases from the gas turbine to generate additional electricity through a steam turbine. This configuration provides quick start-up capabilities, making it an ideal choice for meeting peak electricity demands while maintaining a lower emissions profile compared to traditional coal-fired plants.

Technical Specifications

Core Components

- Gas Turbine
- Heat Recovery Steam Generator (HRSG)
- Steam Turbine

Operational Benefits

High Efficiency, Quick Start-up, Flexible Power Generation, Low Emissions

Safety and Compliance

Safety Protocols

- Fuel Storage Safety
- No Smoking or Open Flames
- 50-Foot Exclusion Zone for Ignition Sources