

1000MW Ultra-Supercritical Power Plant

1000MW ultra-supercritical power plants are designed for efficient electricity generation. These plants leverage advanced technology to achieve high performance and reduced emissions.

1000MW ultra-supercritical power plants		
Guoxin Xinhai power plant	2x1000MW	Completed
Shoude Hengsheng power plant	2x1000MW	Completed
Huaineng Hefeng power plant	2x1000MW	Completed
Huaineng Nantong power plant	2x1000MW	Completed



Guoxin Xinhai power plant
Main steam Parameter: 3000t/h - 27MPa - 600°C, tower boiler.
Coal Consumption Rate: 268g/kWh, Dust Emissions: 30mg/Nm3
Total investment of US\$ 1.05 billion



Overview

Ultra-Supercritical Power Generation

This 1000MW ultra-supercritical power plant represents a high-efficiency solution for large-scale energy production. Designed to optimize thermal performance, the system utilizes advanced steam parameters to maximize output while maintaining stringent emission standards. It is a robust, completed infrastructure solution suitable for utility-scale power generation.

Technical Specifications

Capacity

1000 MW
Unit Capacity

2000 MW
Total Plant Capacity

Main Steam Parameters

Parameter	Value
Flow Rate	3000 t/h
Pressure	27 MPa
Temperature	600 °C

Performance & Efficiency

Coal Consumption Rate	268 g/kWh
Dust Emissions	30 mg/Nm ³

Project Details

Project Status

Completed

Boiler Configuration

Tower Boiler

Total Investment

US\$ 1.05 billion