

# 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 Nanfeng 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 <sup>3</sup>

## Project Details

### Project Status

Completed

### Boiler Configuration

Tower Boiler

### Total Investment

US\$ 1.05 billion