

Hydroelectric Power Plant with Pelton Turbine

This hydroelectric power plant uses a Pelton turbine. The plant converts the potential energy of water into mechanical energy, ultimately generating electrical power.



Overview

Sustainable Hydroelectric Power Generation

This hydroelectric power plant utilizes a Pelton turbine to efficiently convert the potential energy of stored water into clean electrical power. Designed for high-head applications, the system leverages reservoir water height to drive mechanical energy production. It serves as a vital infrastructure component for sustainable energy projects in mountainous or remote terrain.

Technical Configuration

Turbine Type

Pelton Turbine

Energy Source

Hydroelectric (Potential Energy)

Infrastructure Components

Key Infrastructure

- Dam Structure
- Water Reservoir
- Pelton Turbine Unit
- Power Generation Assembly

Environmental Suitability

Ideal Terrain

Mountainous, Remote Locations, High-Head Sites

Operational Features

Operational Status

Functional reservoir and power generation capabilities