

# 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