

417MWp Storage Hydro Power Plant Hydroelectric Project



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A large-scale storage hydropower development opportunity located in a hydrologically rich South Asian river basin. The project is a fully engineered, high-head scheme designed for long-term baseload renewable energy generation with strong regional export potential.

Project Overview

The project is a storage-based hydropower scheme featuring a major RCC dam and a large reservoir system providing significant active storage capacity. The design enables multi-season regulation and optimized generation during peak demand periods.

- Installed Capacity: 417 MW
- Turbine Configuration: 4 × 104.25 MW vertical-axis Pelton units
- Design Net Head: ~610 m
- Design Discharge: 78.4 m³/s
- Project Type: Storage Hydropower (High Head)
- Status: Ready to Build Project

Dam & Reservoir

A major curved gravity RCC dam forms a large reservoir system with substantial storage enabling seasonal regulation.

- Dam Height: 248 m
- Reservoir Total Storage: 474 million m³
- Live Storage: 350 million m³
- Spillway: Ogee, non-gated overflow designed for extreme flood handling up to PMF conditions
- Flood Handling: Designed for extreme hydrological scenarios including PMF-level inflows

Waterway System

The project features a highly engineered hydraulic layout designed for high-head energy transfer:

- ~8.2 km concrete-lined headrace tunnel (horse-shoe profile)
- Surge shaft system (165 m high, 16 m diameter)
- Multi-section steel-lined pressure shafts and drop shafts
- Underground powerhouse and transformer caverns
- Fully optimized high-pressure conveyance system for efficiency and stability

Powerhouse

- Underground powerhouse complex
- Pelton turbine configuration optimized for high-head operation
- Robust geological setting with sandstone host rock conditions

Transmission & Grid Integration

- ~112 km high-voltage transmission line
- 400 kV double-circuit design

TARGET PRICE

\$1,300,000,000

GROSS REVENUE

\$0

EBITDA

\$0

BUSINESS TYPE

Renewable Energy

COUNTRY

Nepal

BUSINESS ID

L#20261080

- Direct interconnection to a major regional substation hub

Energy Output

- Annual Generation: ~1,280 GWh
- Firm Energy: ~672 GWh
- Secondary Energy: ~608 GWh
- Strong seasonal load balancing and export capability

Estimated Project Cost (OPCC)

- Total CAPEX: ~USD 1.3 – 1.4 billion (depending on transmission scope)
- Fully itemized civil, electro-mechanical, hydro-mechanical, and infrastructure components included

Key Investment Highlights

- Large-scale storage hydropower asset with high head efficiency
- Long-life infrastructure with underground powerhouse design
- Strong geological and hydrological resource base
- High flexibility for peak load and export markets

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