

Fangut (Albania): dam and hydropower Project (65 MW)

Bauherr

Ayen Enerji AS Tirana / Albania

Projektierung

IM Maggia Engineering Ltd in association

Zeitraum

2010-2018

Baukosten

€ 120 million

Leistungen

Feasibility study, construction design, tender documents, realisation and project supervision, workshop tests, general site supervision, commissioning.

Beschreibung

The Fangut HEPP consists of a CFRD dam which forms a reservoir of 135 million m³, a 9,500 m long pressure tunnel, surge tank, valve chamber, 260 m long penstock and power house with two vertical Francis turbines and tailrace channel.

Hauptdaten

Volume of Fangut

- Reservoir: 135 million m³
- Dam height: 92 m
- Dam length: 403 m
- Pressure tunnel: 9'500 m
- Diameter: 5.4 m
- Aquaduct: 125 m
- Diameter: 4.5 m
- Surge chamber: Ø 11 m
- Height surge chamber: 115 m
- Valve chamber: 11x11x15m
- Penstock: 260 m Ø 4.5 m

Power house Fangut

Vertical Francis turbines

- Capacity: 2x 32.75 MW
- Hydraulic head: 130.58-104 m
- Nominal flow: 2x 28.5 m³/s
- Speed: 375 min⁻¹
- Generators: 2x 40 MVA

Valves

- 2 butterfly valves: DN2500 PN16
- 1 safety butterfly valve: DN4500 PN10
- 2 transformers: 2x 40 MVA
- 1 GIS-switchyard

