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Hinterrhein (GR): Overall renovation of power stations

Bauherr
KHR - Kraftwerke Hinterrhein AG, Thusis

Projektierung
Consortium LI-IM, Thusis (Laymeyer International GmbH and IM Maggia Engineering Ltd)

Zeitraum
2007–2017

Baukosten
CHF 300 million

Leistungen
Following stages in accordance with Swiss SIA standards:
- Preliminary design
- Tender documentation
- Detailed design
- Application design
- Construction supervision
- Overall construction management

Beschreibung
Total refurbishment of KHR Hinterrhein's HPPs

Hauptdaten
- 3-stage group of power plants with installed power of 650 MW and pumping capacity of 90 MW
- 4 powerhouses with Francis turbines:
  - Ferrera 3 x 63 MW
  - Bärenburg 4 x 55 MW
  - Sils i.D. 4 x 60 MW
  - Thusis 2 x 20 MW
- Hydromechanical equipment:
  - Spillway, bottom outlet, intake gates
- Water transportation:
  - Pressure tunnel 30 km
  - Pressure shafts 1.7 km
  - Supply tunnels 16 km
  - Access tunnels 1.3 km
  - Water intakes 13
- Reservoirs:
  - Preda Reservoir
  - Valle di Lei Reservoir
  - Ferrera Reservoir
  - Sufers Reservoir
  - Bärenburg Reservoir
- Switchyards
  - in Ferrera and Bärenburg
  - controlled by Sils powerhouse





