

HEPP Hinterdorf in Engi / Switzerland

Client

Weseta Kraftwerke AG, Engi

Consultant

IM Maggia Engineering Ltd, Locarno

Construction period

2011–2012

Construction costs

CHF 5.5 Mio.

Engineering services

According to the Swiss standards (SIA Phases): preliminary design (31), final design (32), tendering (41), construction design (51), construction supervision

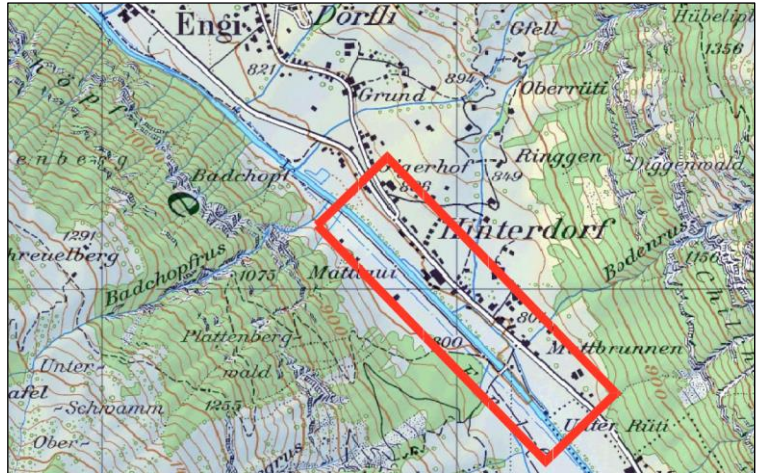
Description

The low head run-of-river power plant of Weseta Kraftwerke AG is located in the village of Hinterdorf in Engi, in the 'Kleintal', and was fundamentally renewed.

- new weir with new flap gate
- new intake and sedimentation basin
- Penstock DN2200 instead of open channel
- Power house with vertical axis Kaplan turbine
- Rehabilitation and lowering tailrace channel

Main technical data

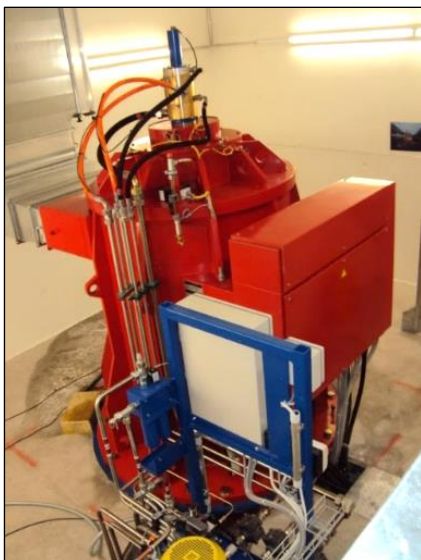
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|-------------------------------|---------------------|
| – River | Sernf |
| – Underground penstock in GRP | DN2200 |
| | L = 550 m |
| – Nominal flow | 7 m ³ /s |
| – Hydraulic head | 10 m |
| – Nominal power | 530 kW |
| – Annual production | 2.5 GWh |



Extract from the map 1 : 25'000



Grill at the end of the sand trap



New Kaplan vertical axis machine group



Installation DN 2200 made of fibreglass