IM Engineering | IUB Engineering

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Borgnone (TI): New construction of hydropower plant

Bauherr
OFIMA - Officine Idroelettriche della Maggia SA

Projektierung
IM Maggia Engineering Ltd

Zeitraum
2016–2018

Baukosten
CHF 17.0 Mio.

Leistungen
For civil engineering, electromechanics and hydromechanics of the following SIA phases, general planner's mandate:

- 21 feasibility study
- 32 preliminary design
- 33 call for tenders
- 41 call for tender
- 51 construction design
- 52 construction and supervision
- 53 commissioning

Beschreibung
New hydroelectric minicentral with Kaplan turbine of approx. 3.2 MW located at the exit of the Cavergno-Palagnedra supply tunnel. Flow rates between 5 and 30 m3/s and fall between 6-16 m.

Hauptdaten
Main features of the project:

- External excavation in rock and loose ground up to 20 metres in height with gradual lowering of the lake (total excavation volume 8'500 m^3).
- Excavation of new tunnels (access and supply) and caves
- Enlargement of existing tunnels
- Costruction in concrete (approx. 3600 m^3) h gradual raising of the lake