

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 Caveragno-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 exca-
vation volume 8'500 m³).
- Excavation of new tunnels (access and
supply) and caves
- Enlargement of existing tunnels
- Construction in concrete (approx. 3600
m³) h gradual raising of the lake

