

Schächen power station (UR): New construction

Bauherr

KW Schächen AG

Projektierung

IUB Engineering AG

Zeitraum

From 2018

Baukosten

Approx. CHF 19 million

Leistungen

- Feasibility study 2012
- Concession project 2014
- Design for construction 2016
- Tendering 2017

Beschreibung

Construction of a small HPP on Schächenbach stream. Intake at tailrace channel of Bürglen HPP and outlet on the RUAG site before the pressure bridge. The HPP has been designed as a run-of-river power plant with the course of the pressure pipe starting in Klausenstrasse and then along the bank of the Schächen and crossing the Gotthardstrasse (west-east connection at Schächen roundabout). The pressure line borders and crosses the new route of the west-east connection on the RUAG site.

Hauptdaten

- Gross head: 77 m
- Water flow: max. $6.5 \text{ m}^3/\text{s}$
- Pressure pipe GRP DN 1600, buried
- Length of line: 2,500 m
- Output approx.: 16.4 GWh
- Capacity approx.: 4.2 MVA
- 2 Francis turbines 2/3 and 1/3
- 1 Ossberger turbine (winter operation)

