

Viehofen hydropower plant, St. Pölten Lower Austria

Client:

Voith Hydro LLC & Co Limited Partnership

Country:

Austria

Duration:

June 2021- April 2022

Services:

Hydrogeologic Analysis
 Geological Investigation
 Expert Statements and Assessments
 Establishment and supervision of GW monitoring levels

Project objectives

Geological and hydrogeological consulting and expert opinion for the construction of a small hydropower plant in Viehofen in the north of St. Pölten.

Project description

The planned hydropower plant is to be built on the Mühlbach with an artificial channel that branches off from the Traisen via a weir. An underwater turbine with an output of up to approx. 120 kW will be used. Due to its location in a built-up area, the impact of the construction of the planned plant must be hydrogeologically and geotechnically assessed.

Project data

- Development water volume Q_a = up to 5.5 m³/s
- Gross head: approx. 2.5 m
- Installed power: up to 120 kW

Project specifics

The hydropower plant was applied for almost 10 years ago to cover the energy needs of a housing estate with around 350 flats but was not realised. Now the project is to be resubmitted and implemented in an adapted form.

Services

- Geological and hydrogeological subsoil investigation (conception, coordination, supervision of the execution, evaluation of dredged trenches and boreholes)
- Preparation of a geological and hydrogeological report
- Planner support in the preparation of the submission documents
- Installation and supervision of groundwater monitoring levels (partly with remote transmission)



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© iC/ Water monitoring level