

Bärenwerk HEP upgrading, site supervision

Client:

Salzburg AG

Country:

Austria

Duration:

from 30.07.2011 to 31.12.2014

Services:

Consultancy of tender documents

Site supervision

Project objectives

Efficiency increase of the system

Project description

The Füscher Bärenwerk went on stream in 1924 and is the first and oldest powerplant of the former provider SAFE. It was a crucial factor for the economical development of Salzburg during the interwar and postwar period. After 88 years an extensive modernisation needs to be done in order to produce green electricity from the water of the Füscher Ache. The construction works will last from mid 2012 until the end of 2014. The Bärenwerk HEP will receive an new 3.47 km long headrace tunnel with a diameter of approx. 3.6m.

Project data

Type of powerplant: powerplant for daily reservoir

Went into service: 1924, rebuilding: 2012 - 2015

Capacity: 14.960 kW

Annual production: 66,3 Mio. kWh

Turbines: 2 open jet turbines with horizontal shaft

Drop height: 290 m

Rate of flow: 6,45 m³/s

Headrace tunnel: l=3275,75 m, cross section approx. 10 m²

Project specifics

A source of drinking water is encountered by the headrace tunnel and needs to be protected from detrimental construction influence.

Services

The services of iC comprise the site supervision, a review of the tender documents and the geological documentation of the tunnel excavation. One supervising engineer, one geologist and up to three superintendents are employed.

