POWER PLANT BÄRENWERK
FUSCH (AT)

EMPLOYER
Salzburg AG, AT-5020 Salzburg

DESIGNER
Salzburg AG, AT-5020 Salzburg

TIME OF COMPLETION
2012 - 2014

CONTRACT SUM
CHF 25 Mio. (€ 21 Mio.)

EXECUTION OF THE WORKS
ARGE KW Bärenwerk

CONSORTIUM PARTNERS
Marti GmbH Österreich, AT-8010 Graz
Marti GmbH Deutschland, DE-70567 Stuttgart
Marti Tunnel AG, CH-3302 Moosseedorf

LEAD COMPANY – TECHNICAL AND COMMERCIAL LEAD
Marti GmbH Österreich, AT-8010 Graz
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FUSCH (AT)

SCOPE OF THE WORKS
Upgrade of the power plant Bärenwerk in Fusch, on the Grossglockner. The main measures are the construction of the underground waterway gallery and the new dam.

- Waterway  Ø 3.8 m
- Tilt  4.8 %
- Length  3'275 m

Technical Specifications
- Operator:  Salzburg AG
- Plant type:  Hydropower plant
- Commissioning:  1924
- Yield (+28 %):  14'960 kW
  instead of 11'600 kW
- Annual production (+17 %):  66.3 Mio. kWh
  instead of 56.9 Mio. kWh
- Turbines:  3 Pelton turbines
- Tank: daily storage in Ferleiten
- Height of fall: 290 m
- Flow:  6.45 m²/s
  instead of 5.35 m²/s

ACTIVITIES
- 100 m with counter-jacking  D&B
  15 % slope
- 280 m gallery  D&B
- 2'835 m penstock  TBM Ø 3.8 m
- 2'935 m inner shell  600 m with sealing