



Hydropower Plant Bärenwerk (CH) Grouting & Waterproofing

Country	Austria
Type	Hydropower Plant
Client	Salzburg AG for Energy, Infrastructure and Telecommunication
Main Contractor	ARGE KW Bärenwerk, Marti GmbH
Execution of the work	Renesco GmbH/ Marti Geotechnik
Designer	Salzburg AG, IGT
Construction Period	2014

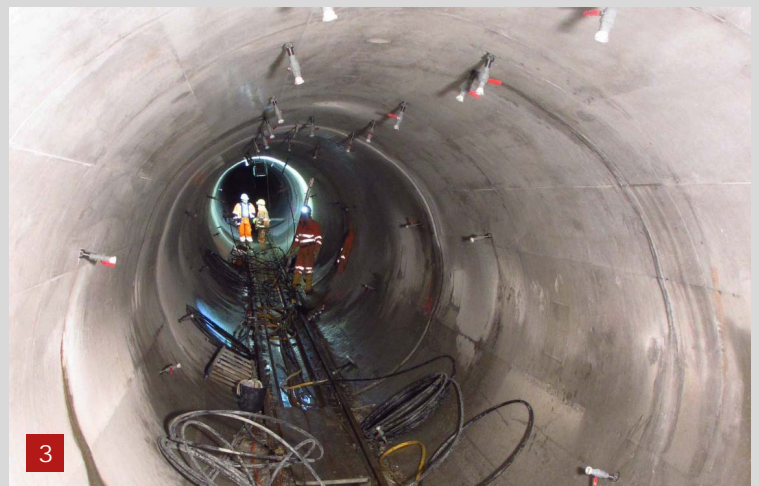
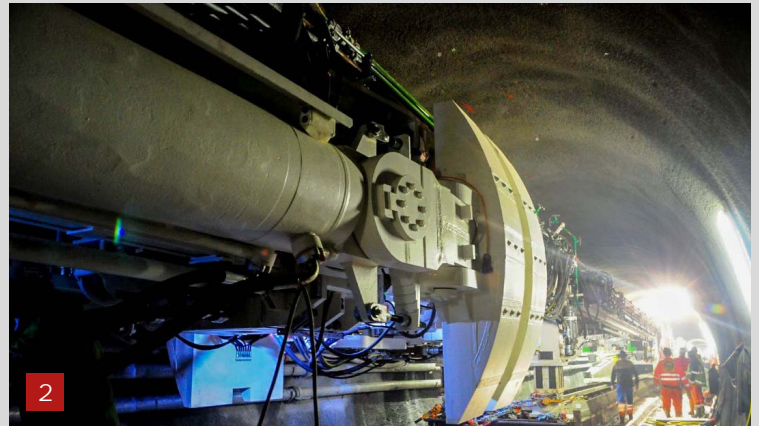
Project Description

Upgrade of the Hydropower Plant in Fusch (AT) at the Grossglockner Mountain. The main activities are the construction of the underground waterway gallery and the new dam.

- Pressure tunnel, 2'935m, Inner shell concrete thickness of 25-35cm, breakout Ø 3.80m
- Gallery, 280m
- Penstock, TBM, 2'835m

Scope of Service

- Sealing and Consolidation grouting of approx. 200m length of tunnel
- Contact grouting of approximately 100m tunnel length
- Contact grouting with Passive Pre-stressing of the concrete inner shell at pressures up to 23bar of a distance of 2'745m
- Execution of Grouting through bore holes of a distance of 2'145m
- Execution of Grouting through sleeve pipes over a distance of 600m in the sector with sheet waterproofing
- Installation of a 3mm thick TPO/FPO sheet waterproofing system including protection geotextile, drainage sheets, grouting barriers, termination details and injection/ grouting devices.



1. Monitoring/ Data Management of the Grouting Work
2. Penstock, TBM
3. Pressure Tunnel, Passive Pre-stressing