



Limmern Pumped Storage Station (CH) Muttsee Dam Grouting

Employer	KLL Kraftwerke Linth-Limmern AG
Client	ARGE Kraftwerk Limmern
Execution of works	Renesco GmbH, Abt. Marti Geotechnik
Construction Period	2013 - 2015
Contract Sum (grouting only)	CHF 3.700.000

Project Description

The 1,000MW Limmern pumped storage station will be built in the Swiss Canton of Glarus. To increase storage capacity at the Mutsee reservoir, a 1.050m long dam wall is being built at 2.400m above sea level. Extensive grouting measures serve to consolidate the underlying strata in the base area and seal the rock under the dam wall.

Scope of services

Execution of all grouting required by the inspection gallery

Contact grouting:

- Depth: up to 5m into the rock
- Up to four rows of grout holes, depending on width
- Metres drilled: 14,000

Curtain grouting:

- Up to 30m in depth
- Bore hole spacing: 3m
- Grouting in three stages (primary, secondary and tertiary bore holes)
- Grouting in accordance with the GIN method, in 3m sections
- Metres drilled: 9,500



Front page: View of the Mutsee dam wall construction site

1. Drilling equipment during the inspection
2. Core drilling in progress
3. At work in the grouting container