



## B 169 Harpfnerwandtunnel (AT) Rehabilitation

<b>Country</b>	Austria (AT)
<b>Type</b>	Rehabilitation, Road tunnel, power plant
<b>Client</b>	Verbund
<b>Main Contractor</b>	Felbermayr Bau GmbH & Co KG, Salzburg
<b>Execution of the work</b>	Renesco GmbH
<b>Designer</b>	IL - Ingenieurbüro Laabmayr & Partner
<b>Construction Period</b>	2023-2024

## Project Description

The 2,597m long tunnel is a single-lane road tunnel between the towns of Mayrhofen and Ginzling in the Zillertal.

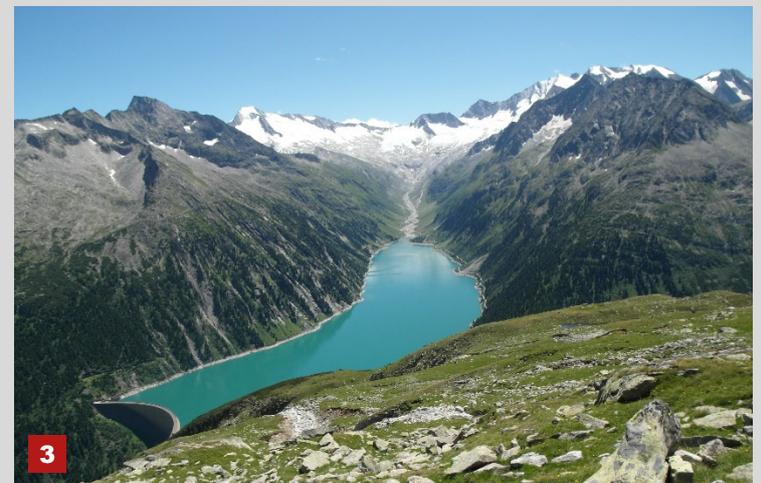
It was built in 1965 as part of the construction of the Zemm hydro-electric power plant to handle site traffic. Most of the tunnel was built without an inner lining; some areas were provided with mortar protection. The clearance profile was designed for the transport of power plant components. The tunnel is currently under modernization/ rehabilitation to increase the safety standards.

The main power station in Mayrhofen (670 million kWh) consists mainly of the Stillup reservoir, which is the key point of the Zemm-Ziller power plant group, and a working water conduit that supplies water to the power plant in Mayrhofen.

## Scope of Service

The niches will be waterproofed with a loose-laid sheet membrane, umbrella seal (drained), between the initial shotcrete lining and the final shotcrete lining.

- 2.1mm PVC-P sheet waterproofing according to the OEBV guideline (Austrian standard)
- Geotextile, polypropylene 500g/sqm
- Anchor penetrations.
- Reinforcement mats



1. Waterproofing at tunnel crown
2. Portal
3. Schlegeissperre, dam & reservoir