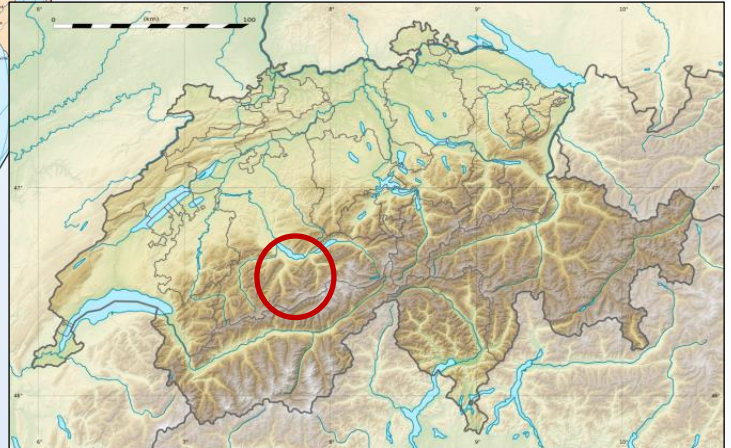


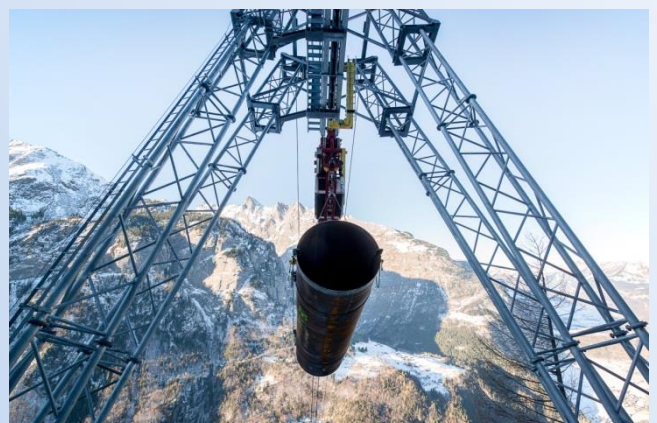
KW Innertkirchen I Parallel Shaft, Switzerland



In September 2010 DSD NOELL GmbH has been awarded the contract for building the parallel shaft in Innertkirchen 1 from the KWO, about 80 km southeastern from Berne, capital city of Switzerland.

DSD NOELL is responsible for design, supply and installation of the penstocks.
The main components are:

- Steel lining for the inclined and horizontal shaft, the connecting constructions and connecting tunnel. Total length of the Penstock approx. 2.070 m – Ø 2.00 m & 2.40 m
- Materials: S 460 ML and S 690 QL. Thickness: 12 – 100 mm
- 2 T-Joints, 1 Bifurcation and Dismantling Pipe for Service
- Pressure Gate and Swing Gate for the Surge Chamber.
- Penstock Inspection Equipment with Supervision and Security Controls.



KW Innertkirchen I Parallel Shaft, Switzerland

Innertkirchen I HEP was built more than 60 years ago and needs to be updated acc. to modern technologies. Building a second penstock which is arranged parallel to the old one creates a slower water flow velocity thus reducing friction losses. The derived savings can be used to increase energy production to a capacity of 280 MW.

