

Axpo, 60-kV Russein switchboard

Sub-project management for the renovation of a 60 kV switchboard

Project description

The Russein switchboard acts as the node point between the Tavanasa and Disentis power plants. The Russein power plant also feeds into this grid node via two transformers. The switchboard was previously operated as a 60 kV switchboard with an auxiliary rail. Due to its advanced age, it was also necessary to fully replace the 60 kV switchboard when increasing the output of the Russein power plant (increase to approx. 26 MW).



Old system – prior to renovation



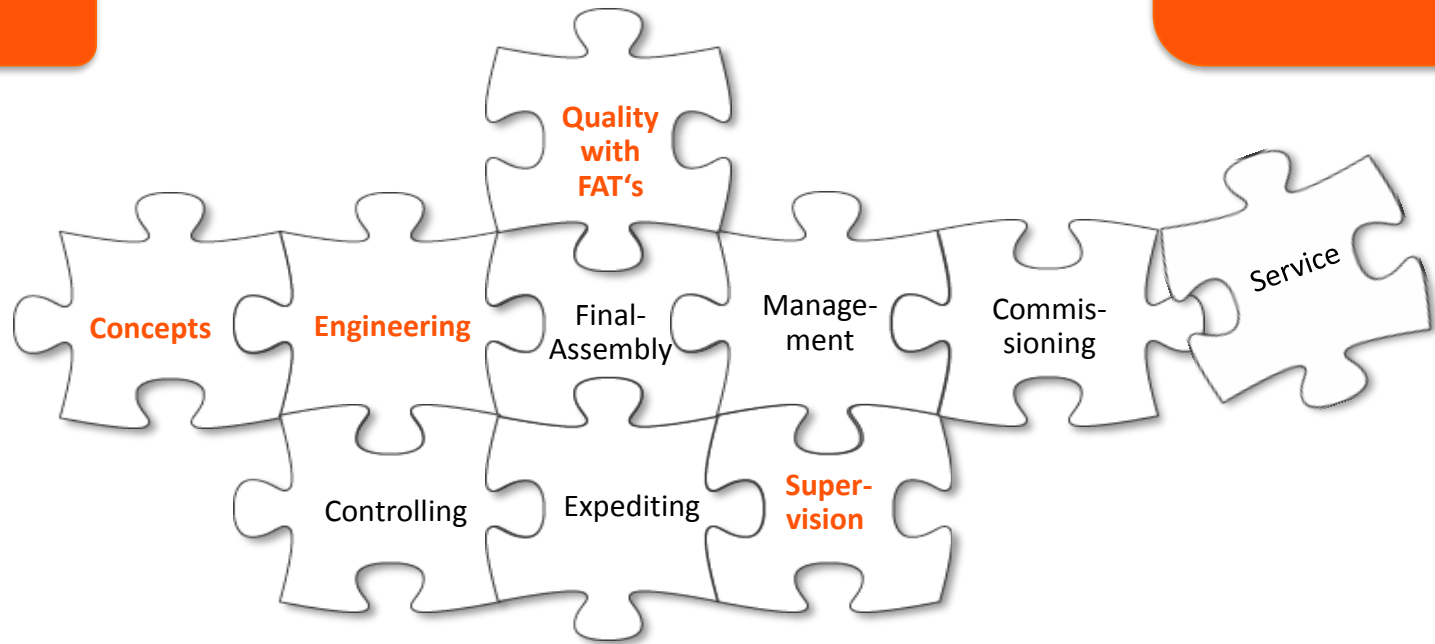
System after renovation

The role of INP Switzerland

INP Switzerland supported the Axpo project team with a sub-project head for the primary technology of the new 60 kV switchboard. The cost calculation, technical specification for the primary technology, application for planning approval from the Swiss Federal Inspectorate for Heavy Current Installations (ESTI), interface work, providing support when purchasing all required small parts, as well as support during realization, installation and commissioning were implemented by INP Switzerland within the planned timetable. The switchboard now consists of an SF6-insulated multi-function module using an H-bridge circuit and was put into operation on schedule for the re-commissioning of the Russein power plant at the end of November 2014.

Smart E-Engineering-Services

Flexibility Throughout the Project



- Creation of a variant comparison for various switchboard types (AIS, GIS or hybrid)
- Creation of tender documents for the switchboard
- Award recommendation and support in contract awarding negotiations
- Submission of ESTI documents
- FAT for suppliers (primary and secondary technology of 50kV switchboard)
- Coordinating assembly and commissioning through to energization for the first time
- Documentation and project completion



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