



HPP & PSP REHABILITATION.

ENGINEERING EXCELLENCE.

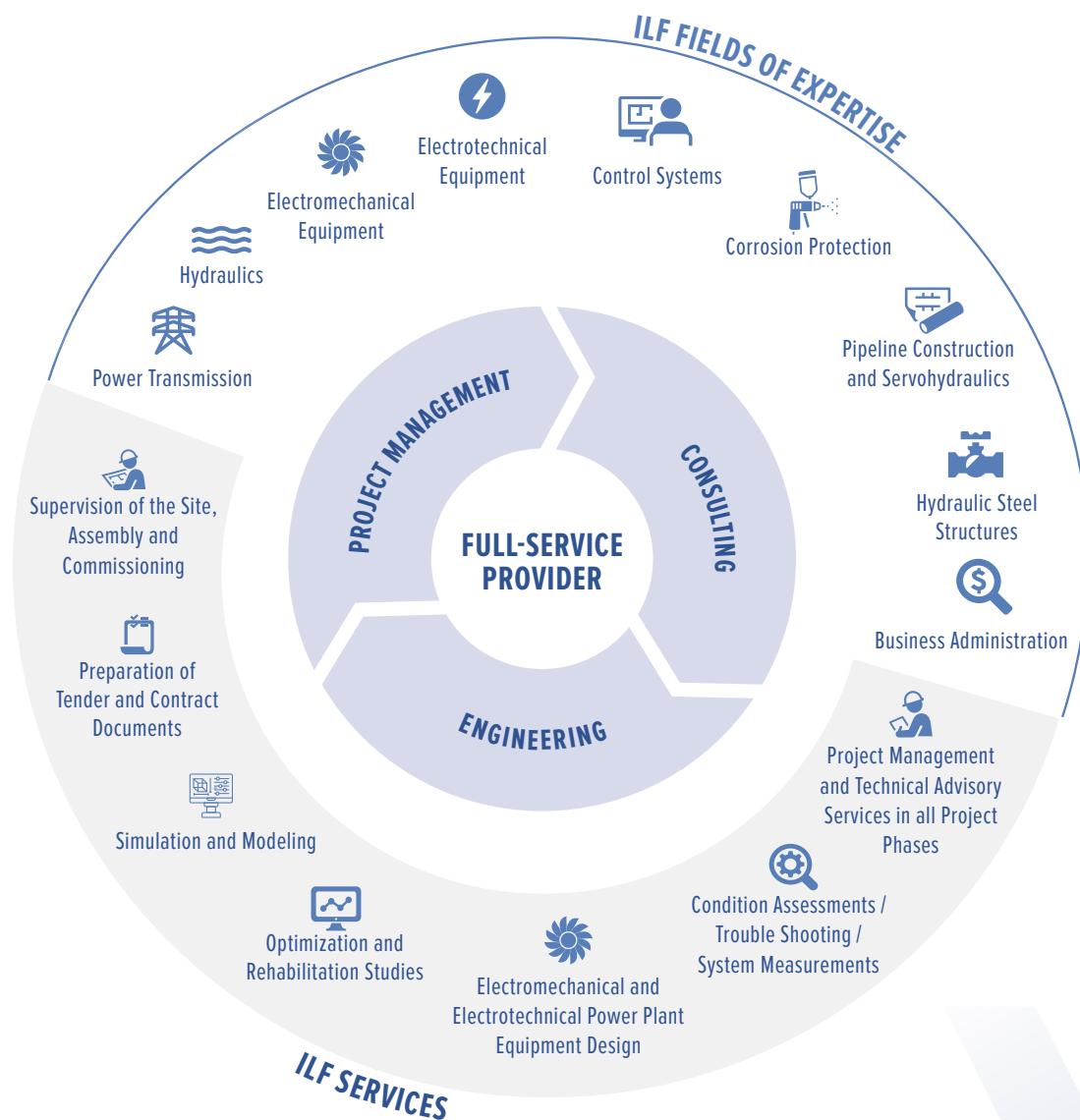


CONSULTING
ENGINEERS

HPP & PSP REHABILITATION

As the global demand for sustainable and efficient power generation grows, the rehabilitation and retrofitting of hydropower plants (HPPs) and pumped storage plants (PSPs) is becoming increasingly important. Whether for individual plants or complex groups of plants, technological renewal and targeted operational optimization is key.

With our wide range of services and international experience in the planning, design and implementation of hydropower projects, we at ILF support clients in the development of tailor-made solutions. Our aim is to combine economic efficiency and technical excellence to make rehabilitation projects successful and future-proof. Our range of services and expertise includes:



From the initial idea to commissioning, at ILF we offer clients all of the following services from a single source:

- Detailed and construction design
- Preparation of tender documents and bid evaluation
- Contract compliance checks
- Factory Acceptance Testing (FAT)
- Site supervision and quality control
- Supervision of testing and commissioning through to handover

In addition to typical consulting services, the range of services which we offer at ILF also includes:

- Condition assessments and operational optimization
- Studies of alternatives and rehabilitation concepts
- Comprehensive planning and design of retrofit and overhaul measures
- System and fingerprint measurements (of effectiveness, temperature, insulation value, vibration, flow rate, etc.)
- Corrosion protection testing
- Inspection and condition assessment of pressure pipes
- Simulation and modeling
 - Transient analysis (waterways)
 - Flow simulation (CFD)
 - Strength and fatigue calculations (FEM)
 - Modal analysis (vibration problems)

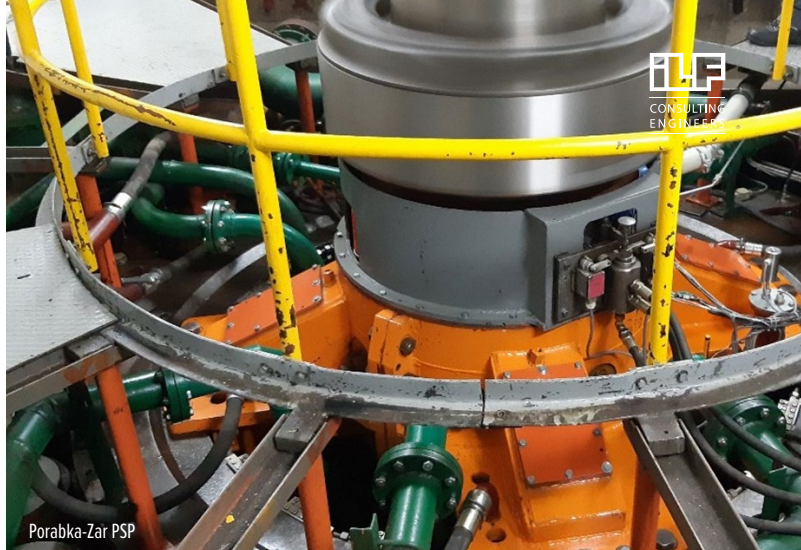


“Combining engineers’ innovative ideas with operating staffs’ experience is key for a sustainable future.”

Matthias Saurwein,
Team Leader – Hydropower Equipment & Rehabilitation

PROJECT HIGHLIGHTS

- Porabka-Zar PSP (4x130 MW), Poland
Study of alternatives, execution concepts, preparation of tender documents and award of contract procedure
- Qairokkum HPP (increase from 126 to 174 MW), Tajikistan
Technical services for tender phase, and site supervision
- Andelsbuch HPP (1x6 MW), Austria
Study of alternatives, execution concepts, tender phase, supervision of assembly and commissioning
- Rifawerk PSP (2x5 MW), Austria
Study of alternatives, execution concepts, tender phase, supervision of assembly and commissioning
- Rosshaupten HPP (2x25 MW), Germany
Study of alternatives, execution concepts, tender phase, assistance during award of contract procedure
- Rehabilitation and extension of the Schluchsee Cascade (total output: 470 MW), Germany
Study of alternatives, execution concepts, tender phase



Porabka-Zar PSP



Rifawerk PSP



Andelsbuch HPP



Qairokkum HPP



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