

A wide-angle photograph of a construction site for water transmission systems. Large, grey, cylindrical pipes are being laid out in a trench. A yellow crane is lifting a pipe into place. In the background, there are large mounds of sand and other construction equipment. The sky is clear and blue. The text 'WATER TRANSMISSION SYSTEMS.' is overlaid in white, bold, sans-serif font in the upper left quadrant.

**WATER TRANSMISSION
SYSTEMS.**

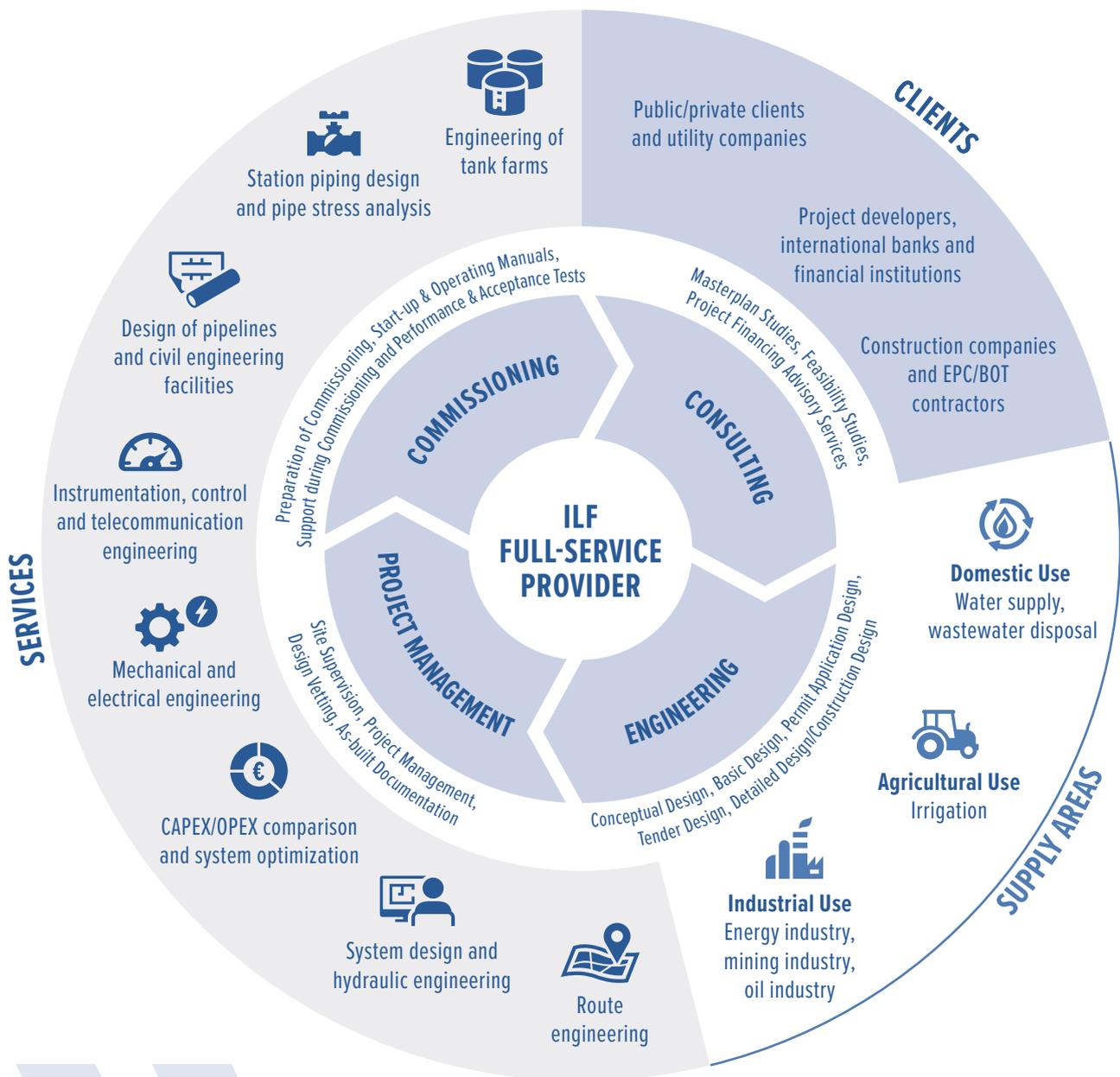
ENGINEERING EXCELLENCE.



CONSULTING
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WATER TRANSMISSION SYSTEMS

The transport of large quantities of water over long distances, often over several hundreds of kilometers, requires the construction of complex transmission systems. In each and every project, meeting the requirement of keeping the respective Water Transmission System (WTS) in continuous operation and ensuring cost efficiency, poses a particular challenge. With more than 40 years of experience in designing, implementing and optimizing large-scale water transmission systems, ILF has established itself as an international market leader in this field.



14,500+ KM OF SYSTEMS DESIGNED AND IMPLEMENTED
33+ MILLION m³/d OF TOTAL THROUGHPUT
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Water transmission systems contribute to improving the quality of life around the globe. When implementing these systems, it is essential to balance the technical aspects, operational requirements, safety regulations, environmental protection measures and project costs.

ILF's know-how in fulfilling these requirements and in providing additional services such as water treatment/ seawater desalination, energy supply, water distribution, contract and finance consulting, etc. make ILF the qualified partner of choice for complex WTS projects. ILF also generates considerable added value for clients through its distinctive quality awareness, continuous advancement and comprehensive knowledge of the market and of prices. In its endeavor to achieve these objectives, ILF, as a full-service provider, adopts an interdisciplinary approach to the design of water transmission systems and the delivery of sophisticated technical solutions from a single source.



“Decades of experience in implementing some of the largest water transmission systems in the world and the unwavering courage to develop innovative solutions make ILF ready to take on project challenges of the future.”

Markus Klingenschmid,
Department Manager
Water Pipeline Engineering

PROJECT HIGHLIGHTS

- Design and implementation of the world's first “closed” hydraulic water transmission system (Riyadh WTS, Lines A & B, Saudi Arabia)
- The world's largest sea water transmission system with a max. capacity of 2.0 million m³/d (Common Sea Water Supply Project, Iraq)
- The world's largest potable water transmission system with a max. capacity of 1.3 million m³/d (Rabigh to Jeddah/Makkah/Taif WTS, Saudi Arabia)
- One of the world's longest water transmission systems consisting of 6 hydraulically independent pipelines with a combined pipeline length of 950+ km (Shuqaiq Phase 2 WTS, Saudi Arabia)
- 4,600 m max. elevation difference within a single system (Collahuasi WTS, Chile)
- Design, planning and implementation of entire water transmission systems, covering the whole service spectrum from water treatment/sea water desalination, energy supply (among others from renewable energy sources) and water transmission to delivery to consumers (e.g. Windhoek Region Water Supply Project, Namibia)



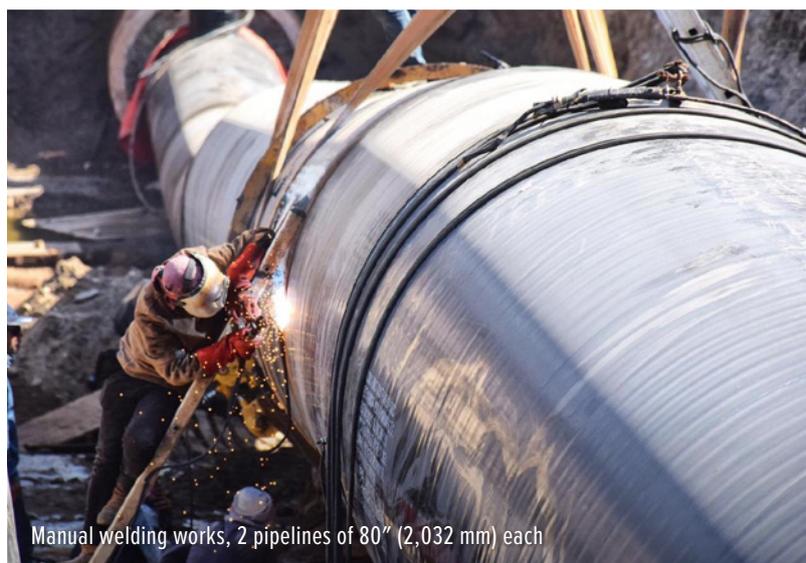
Pumping station, throughput: 947,000 m³/d, 10 pumps of 8.7 MW each



Pipe laying, 2 pipelines of 72" (1,829 mm) each



Tank farm, steel tanks: 170,000 m³, 2 pipelines of 96" (2,438 mm) each



Manual welding works, 2 pipelines of 80" (2,032 mm) each



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