

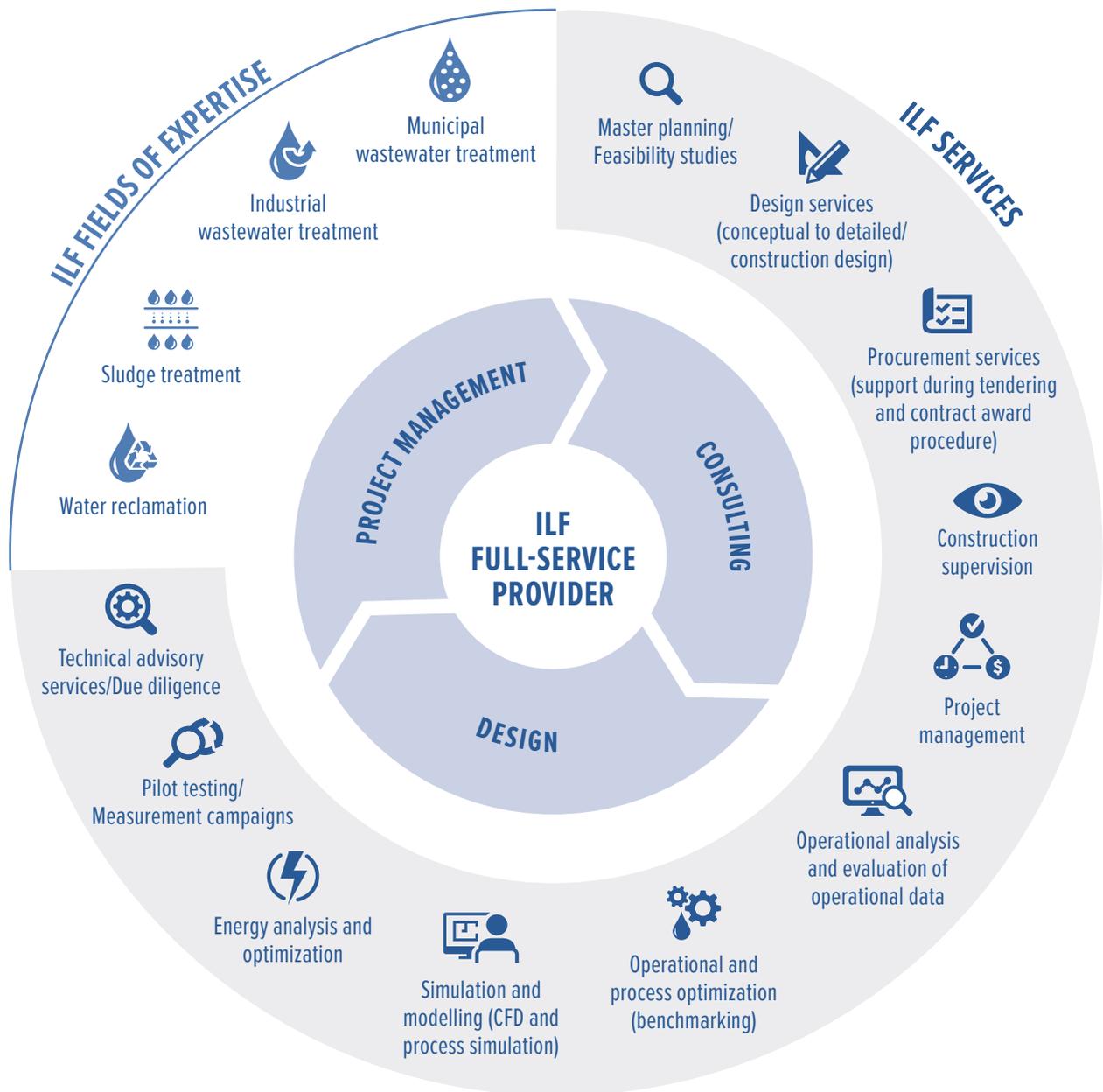
WASTEWATER TREATMENT.

ENGINEERING EXCELLENCE.



WASTEWATER TREATMENT

Advancements and developments in wastewater treatment have accelerated in recent years. Today, sustainability, resource efficiency and recovery are the main drivers of further innovation in wastewater treatment. For around 45 years, ILF has been serving clients worldwide to develop and implement customized, cost efficient and holistic wastewater treatment solutions.



GLOBALLY, 80% OF WASTEWATER FLOWS BACK INTO ECOSYSTEMS WITHOUT BEING TREATED OR REUSED.

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Regulatory requirements, aiming to further improve recipient water quality or allow the safe use of treated effluent, ask for additional efforts beyond conventional treatment solutions. Additionally, finite resources and climate change are key factors driving the shift to more sustainable and efficient practices, such as material and energy recovery.

ILF provides its clients with customized and sustainable treatment process solutions that involve all levels of intricacy, from robust and low-tech solutions to highly complex multi-stage treatment processes for advanced wastewater treatment and wastewater recovery, as well as energy recovery and sludge treatment. By consistently applying modern design software tools (BIM; CFD modelling, etc.), ILF is able to offer integrated and innovative design solutions.



“We at ILF consider wastewater to be a valuable resource. By using innovative technologies we can transform wastewater into clean water, green energy and other useful resources.”

Wolfgang van Appeldorn,
Senior Wastewater Treatment Expert

PROJECT HIGHLIGHTS

Groundbreaking and innovative projects:

- Vienna Main Wastewater Treatment Plant (WWTP) (670,000 m³/d), Prime Consultant, 2-stage activated sludge process and innovative sludge treatment including energy recovery to allow net zero energy operation, Austria
- Jeddah Airport Independent Sewage Treatment Plant (ISTP) (300,000 m³/d), Sponsor’s Technical Advisor, first plant in the region with NEREDA®-based aerobic granular biomass process, Saudi Arabia
- Dammam ISTP (200,000 m³/d), Lender’s Technical Advisor, IFAS-based biological treatment process, Saudi Arabia
- Sulaihiya Wastewater Treatment and Reclamation Plant (600,000 m³/d), Prime Consultant, largest WWTP providing UF/RO-filtration post treatment, Kuwait
- Strass WWTP, Zillertal (56,850 m³/d), Prime Consultant, 2-stage activated sludge process, first plant reaching energy self-sufficiency worldwide, Austria
- Warsaw Czajka WWTP (435,000 m³/d), Detailed/Construction Design, largest WWTP in the country, Poland

Internationally funded projects

- Korça WWTP (85,000 PE), aerated ponds – KfW funded, Albania
- Telavi WWTP (52,000 PE) and Tskaltubo WWTP (18,500 PE), anaerobic ponds, trickling filter – SIDA/World Bank funded, Georgia
- Tehran South WWTP Module 1-4 (2.1 million PE, 450,000 m³/d) – World Bank funded, Iran



Vienna Main WWTP, Austria

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Abu Dhabi BOOT project



Tehran South WWTP, Iran



Korça WWTP, Albania



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