



USED WATER TREATMENT.

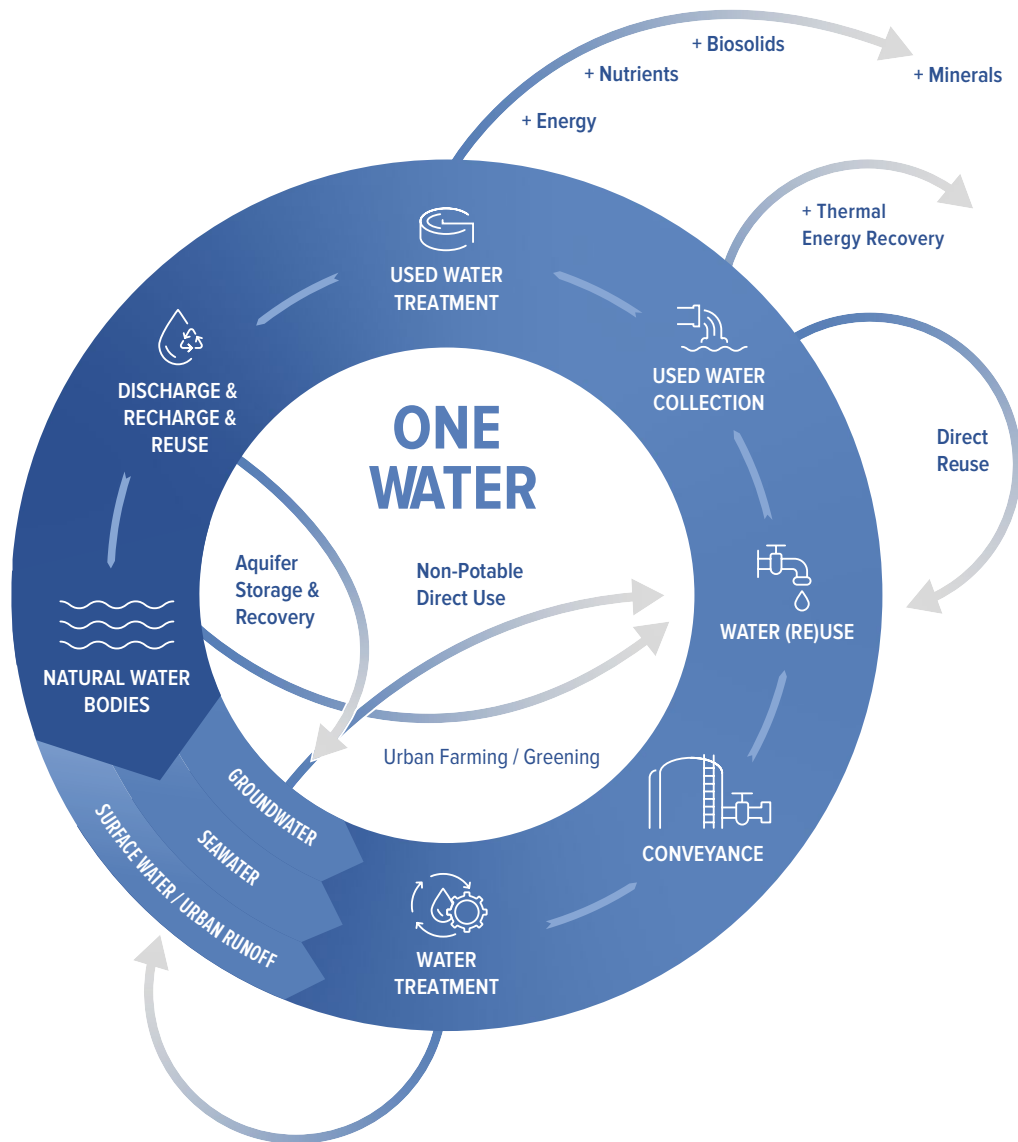
ENGINEERING EXCELLENCE.



CONSULTING
ENGINEERS

ILF ONE WATER

The One Water philosophy views all water, be it drinking water, stormwater, or used water, as interconnected components of a single system. By breaking down traditional barriers in water management, we aim to maximize the potential of every drop, ensuring sustainable and resilient water systems for the future.



Sustainable Urban Drainage Systems (SUDS)



USED WATER TREATMENT

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

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 offers customized, sustainable used water solutions, covering everything from reliable low-tech systems to complex multi-stage treatment processes, including recovery and sludge treatment. With the help of state-of-the-art-design software like BIM and CFD, ILF develops comprehensive and innovative design solutions.



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

Wolfgang van Appeldorn,
Senior Used Water Treatment Expert

PROJECT HIGHLIGHTS

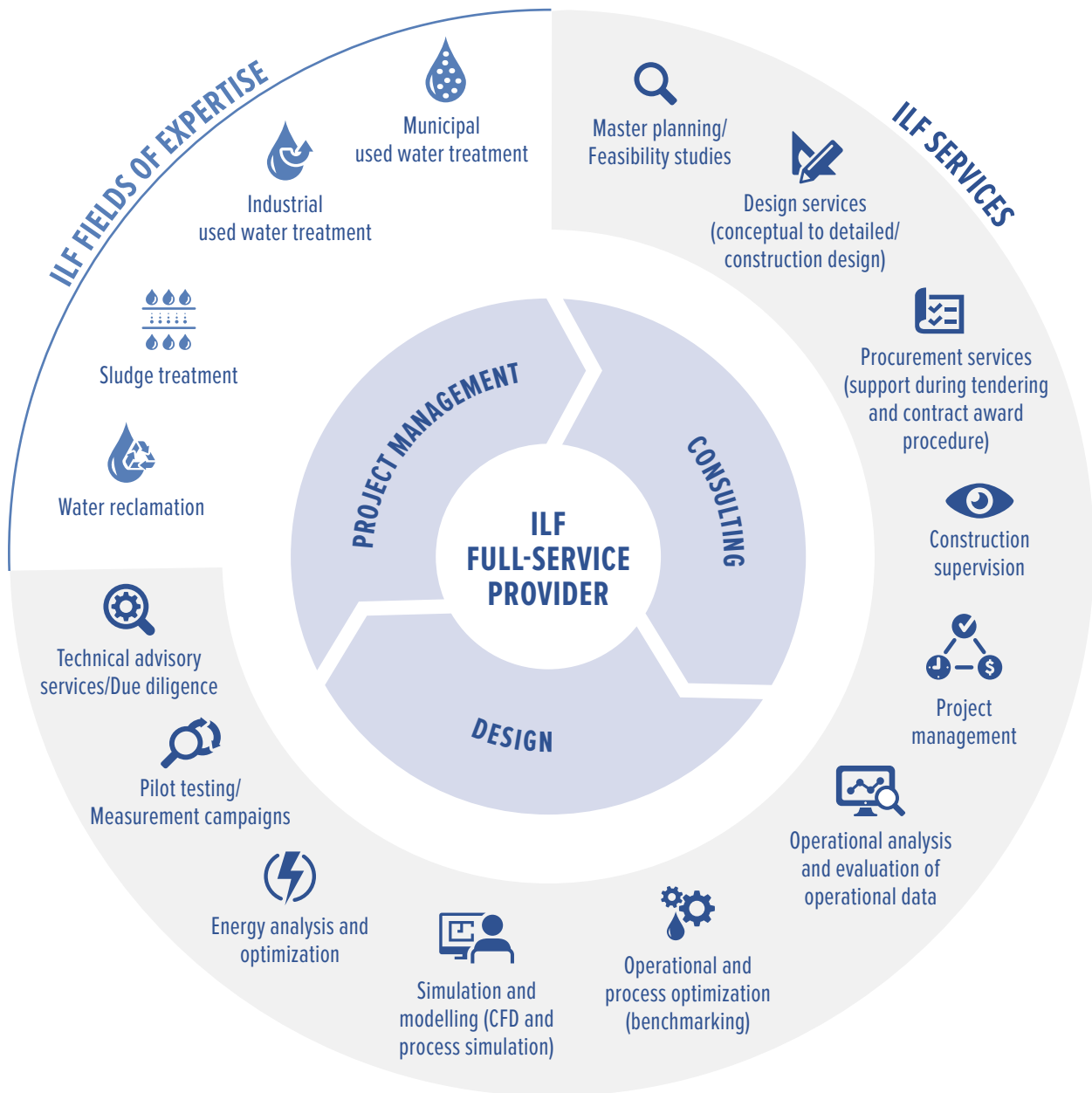
Future-Oriented and Innovative Projects:

- Vienna Main Used Water Treatment Plant (670,000 m³/day), Overall Planning & Design, two-stage activated sludge process and sludge treatment with biogas utilization for energy self-sufficient operation, Austria
- Jeddah Airport Used Water Treatment (300,000 m³/day), Technical Advisor to Client; first plant in the region to apply the Nereda® process, Saudi Arabia
- Munich Gut Großlappen Used Water Treatment (300,000 m³/day), Overall Planning & Design, capacity increase of inflow and secondary treatment, Germany
- Frankfurt Niederrad Used Water Treatment (240,000 m³/d), Overall Planning & Design, expansion of the secondary treatment stage, Germany
- Sulaibiya Used Water Treatment and Recovery Plant (600,000 m³/day), Overall Planning & Design, one of the world's largest plants of its kind with downstream reverse osmosis, Kuwait

Internationally funded projects

- Korça Used Water Treatment (85,000 PE), Owner's/FIDIC Engineer, aerated waste stabilization ponds – financing KfW, Albania
- Telawi and Tskaltubo Used Water Treatment (52,000 PE + 18,500 PE), Feasibility Study, anaerobic waste stabilization ponds and trickling filters – financing SIDA/WB, Georgia
- Teheran South Used Water Treatment (2.1 million PE), Owner's/FIDIC Engineer, financing PE, Iran
- Warsaw-Czajka Used Water Treatment (435,000 m³/day), Owner's Engineer / EPC Designer, construction design, financing EU Cohesion Fund, Poland

SUSTAINABLE RESOURCE MANAGEMENT BEGINS WITH INTELLIGENT USED WATER TREATMENT.



BASED ON NUMBERS FROM WORLD HEALTH ORGANIZATION, 44% OF THE GLOBAL HOUSEHOLD USED WATER FLOWS BACK INTO ECOSYSTEMS WITHOUT BEING TREATED OR REUSED.

[HTTPS://WWW.UNWATER.ORG/WATER-FACTS/WATER-QUALITY-AND-WASTEWATER](https://www.unwater.org/water-facts/water-quality-and-wastewater)



Vienna Main UWWP
AUSTRIA

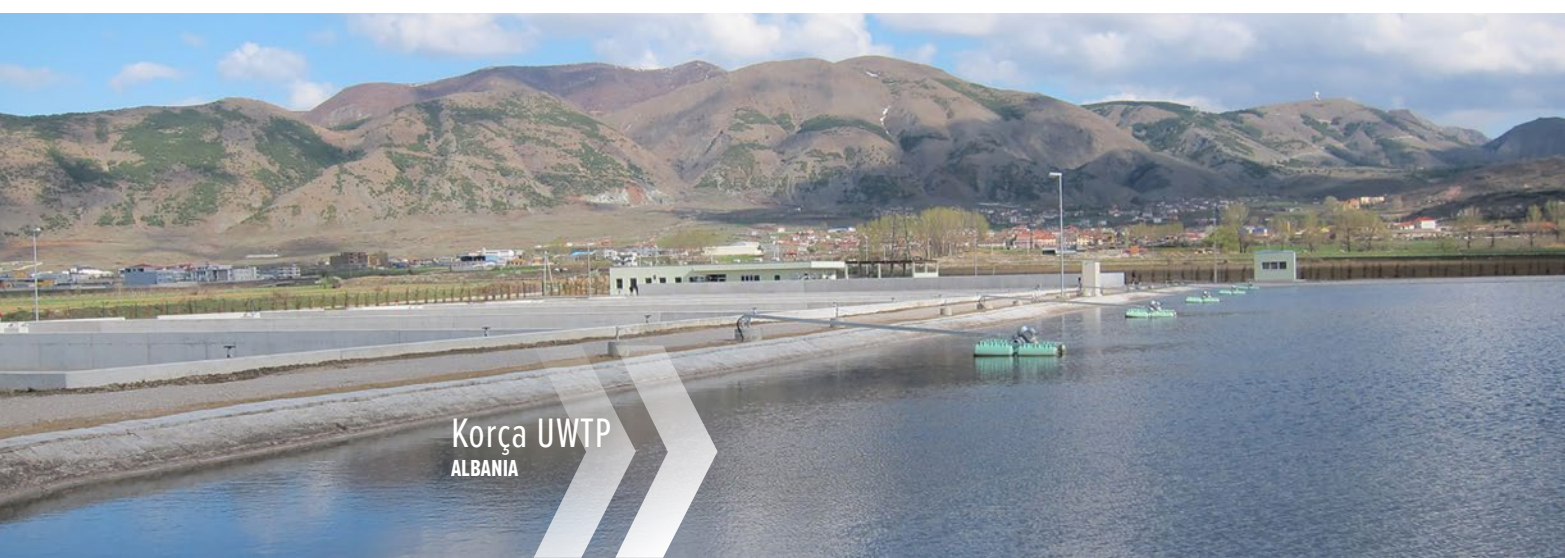
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