

ILF GROUP ENGINEERING EXCELLENCE.

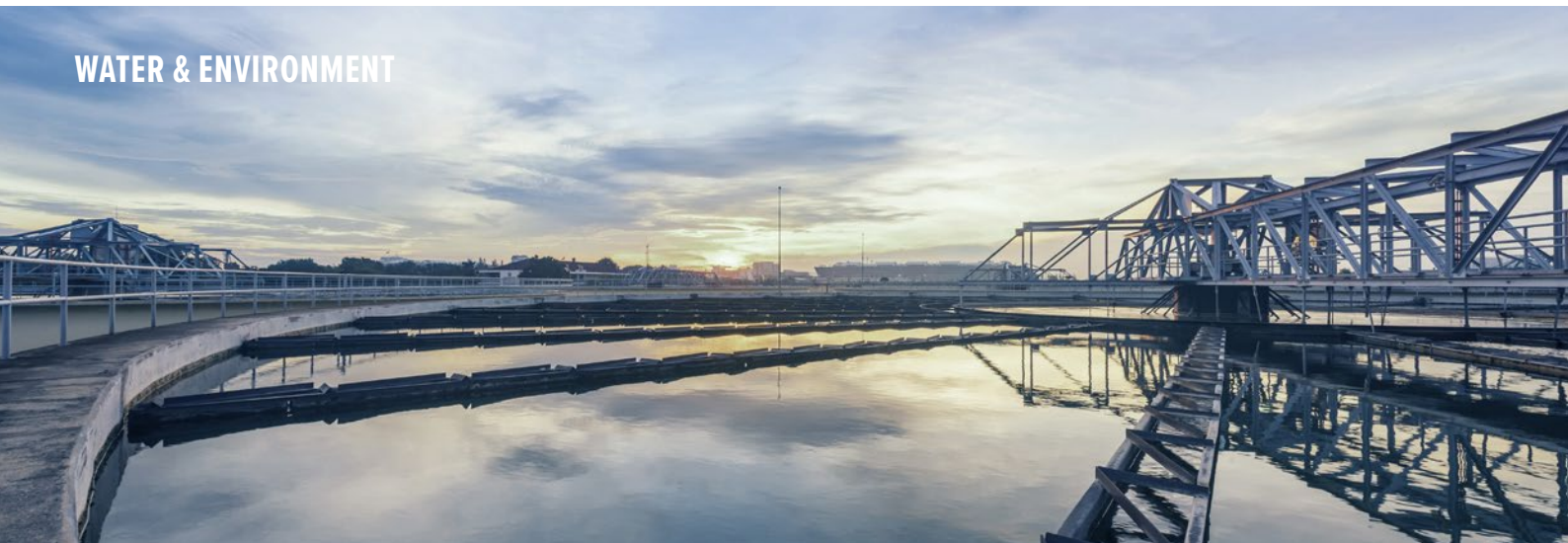


CONSULTING
ENGINEERS

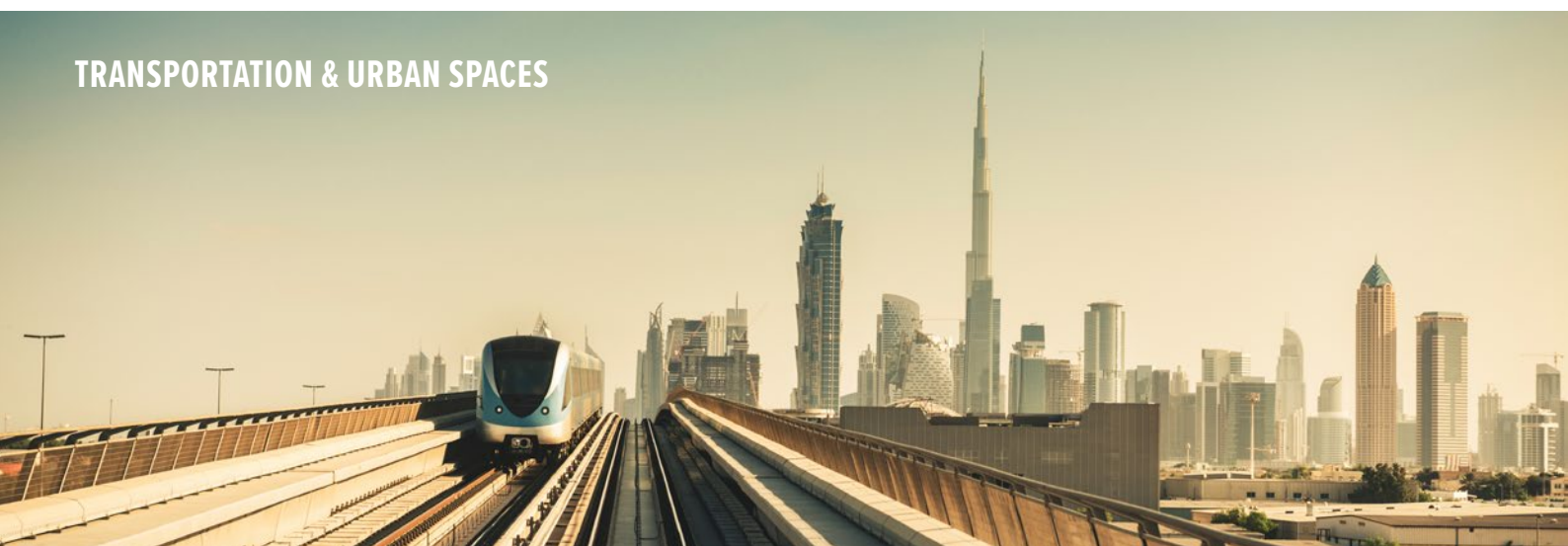
ENERGY & CLIMATE PROTECTION



WATER & ENVIRONMENT



TRANSPORTATION & URBAN SPACES



RESOURCES & SUSTAINABLE INDUSTRY



ILF AT A GLANCE

ILF is a leading international engineering and consulting group that supports its clients to successfully identify, prepare and execute technically challenging energy, industrial and infrastructure projects.

55+

years of experience

10,500+

projects successfully executed

2,600+

employees worldwide

150+

countries in which ILF has been successful

45+

office locations across five continents

4

main business areas

With over 2,600 highly qualified employees in more than 45 offices across five continents, the companies of the ILF Group have a strong regional presence. This enables ILF to interact with clients and project parties at any time and any place.

At the same time, close cooperation within the network enables ILF to draw on a number of international experts and utilize their special experience, processes and tools. This combination of local and international expertise, as well as ILF's complete independence – as a company privately owned by the founding families, which has no affiliation to manufacturers, suppliers, or financing institutions – ensures that clients' needs are best met.

ILF's working principles are:

- analyzing clients' needs and providing the corresponding consulting services
- adopting a holistic approach to developing and optimizing sustainable project solutions
- working diligently to deliver high-quality, tried and tested, yet innovative solutions
- interacting closely with clients and project parties on site
- integrating all stakeholders, applying ILF's vast international experience, outstanding competence and extensive local knowledge
- upholding the company's independence to deliver creative and bespoke project solutions

ILF is committed to achieving the highest level of client satisfaction and to maintaining long-term business relations with its clients.



“ILF combines local presence and international expertise to sustainably serve clients' needs.”

Klaus Lässer, CEO

FOR A BETTER QUALITY OF LIFE

*The vision that drives us,
and the reason we believe in the work we do.*

VISION

A leader in improving quality of life around the globe.

VALUES

The following company values form the basis for all interactions at ILF:

Respect

Everyone is treated with respect and dignity, independent from their position, ethnicity, gender, orientation or belief. This is true for both ILF staff and third parties.

Honesty

Honesty is considered crucial for professional relationships. This is why “walking the talk” is important to ILF.

Reliability

Employees take responsibility for their assignments and their actions. Great importance is given to ensuring the highest quality whilst meeting project requirements and deadlines.

Fairness

Fairness is a guiding principle in all decision-making processes and relationships at ILF.



BELIEFS

ENGINEERING EXCELLENCE

Instead of solely focusing on growth, ILF aims for market leadership through quality and continuously strives for engineering excellence.

This is achieved through:

- a holistic approach to problem solving
- a high level of ingenuity and creativity
- a constant desire for improvement
- strong motivation and dedication
- great diligence and persistence
- accompanying staff development programs
- efficient knowledge management and competence development

EFFECTIVE COOPERATION

United as a team, ILF employees around the world successfully bridge distance, time zones and cultures, making a concerted effort to best serve clients' needs.

GREAT PEOPLE

It is the people at ILF that make the difference. Highly motivated employees are keen to excel and contribute to the overall success of the company. Problems are seen as challenges, and finding the best solution is the goal. ILF strives for long-term working relationships and encourages its employees to see themselves as ILF ambassadors.

COMPLETE INDEPENDENCE

ILF is privately owned with no affiliation to manufacturers, suppliers, financing institutions or any other third parties. Actions are always based on objective considerations and are in the best interest of the respective client.

SUSTAINABLE DEVELOPMENT

The *United Nations' Sustainable Development Goals (SDGs)* provide the framework for ILF to shape a livable and sustainable future and to improve the quality of life for all. ILF strongly supports the achievement of these goals through its innovative services for the benefit of clients, its sustainable corporate culture and its valuable contributions to the well-being of society.

SUSTAINABLE DEVELOPMENT GOALS



SERVICE PORTFOLIO

Following a one-stop approach, ILF offers its clients a comprehensive range of consulting, engineering and project management services, along with a variety of additional services.

MANAGEMENT CONSULTING

- Market Studies
- Master Plans
- Transaction Advisory Services, Due Diligence Analyses
- Pre-Feasibility Studies
- Bankable Feasibility Studies
- Lender's Engineering
- Dispute Resolution
- PPP Advisory Services
- Project Screening
- Financial Advisory Services
- Institutional Analysis and Strengthening
- Operation and Maintenance Consultancy

PROJECT MANAGEMENT

- Project Organization
- Project Management Consultancy
- Risk Management
- Stakeholder Management
- Project Execution Planning
- Procurement Services
- Supply Chain Management
- Construction Supervision
- Commissioning Supervision
- Operation Supervision

ENGINEERING

- Pre-Concept
- Conceptual Design
- Basic Design
- FEED, Tender Design
- Permit Application Design
- Guide Design
- Detailed Design
- Construction Design
- Design Review
- As-Built Documentation
- Integrity Assessment
- Rehabilitation Design
- Modification Design
- Decommissioning Planning

ADDITIONAL SERVICES

- Geological and Hydrogeological Consultancy
- Geotechnical Design and Consultancy
- Urban and Environmental Planning
- Environmental and Social Management
- Information Management – GIS and BIM
- Risk and Safety Management
- Resilience Management of Critical Infrastructure
- Rehabilitation of Aging Infrastructure
- Energy Concepts
- Climate Services and Climate Change Adaptation
- Disaster Risk Management
- Sustainability Advisory Services





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WITH OUR EXPERTISE AND
SERVICES, WE ARE ...

Learn more

ENERGY &
CLIMATE
PROTECTION

WATER &
ENVIRONMENT

TRANSPORTATION
& URBAN SPACES

RES
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ENERGY & CLIMATE PROTECTION

We are driving the energy transition! ILF supports clients worldwide to execute large-scale projects focused on the generation, storage and transmission of electricity supplied from a variety of renewable energies. In this way, we are actively promoting the shift towards energy being supplied from sustainable sources for present and future generations.



SOLAR POWER

- Feasibility Study for Regional Solar Park, 150 MW_p (PV) and 70 MWh (Battery Energy Storage System – BESS), GAM
- Feasibility Study for Desalination Plant and Water Carriage System to secure water supply to Central Coast, Windhoek, and electricity supply – 100 MW_p (PV) and 400 MWh (BESS), NAM
- South Amman Solar Power Project, 46 MW_p (PV) and 3.5 MWh (BESS), JOR

WIND POWER

- Baltic Power OWF, 1,200 MW, Baltic Sea
- Dhofar Wind Power Plant, 50 MW, OMA
- Großinzersdorf Wind Park, 9.9 MW, AUT

HYDROPOWER

- Atdorf Pumped Storage Plant, 1,400 MW, GER
- Limmern Pumped Storage Plant, 1,000 MW, SUI
- Qairokkum Hydropower Rehabilitation Project, 174 MW, TJK
- Muzizi Hydropower Plant, 48 MW, UGA

BIOENERGY

- Zabrze Combined Heat and Power Plant, 140 MW_{th} and 75 MW_{el}, POL
- Częstochowa Combined Heat and Power Plant, 120 MW_{th} and 65 MW_{el}, POL
- Hall Biomass-Fired Cogeneration Plant, 27 MW_{th} and 1.1 MW_{el}, AUT

THERMAL POWER

- Kozenice Power Plant, 1,075 MW_{el}, POL
- Shuqaiq II Independent Water and Power Project (IWPP), 850 MW_{el}, KSA
- Khulna Dual Fuel Combined Cycle Power Plant, 330 MW_{el}, BAN

WASTE TO ENERGY

- Sharjah Multifuel Waste-to-Energy Plant, 29 MW_{el}, UAE
- Municipal Waste Incineration Plant in Warsaw, 54 MW_{th} and 24 MW_{el}, POL
- Solid Waste Incineration Plant in Poznań, 34 MW_{th} and 15 MW_{el}, POL

HYDROGEN

- “ELEMENT ONE” – 40–100 MW Power-to-Gas Facility incl. Electrolyzer Facility, Methanation Plant, H₂ Pipeline as well as H₂ Injection, GER
- Red Sea Development Project – up to 50 MW Green H₂ Energy Storage, KSA
- DEMO4GRID Project – 4 MW Electrolyzer Facility, H₂ Storage Facilities & H₂ Refueling Station, AUT
- Elten Compressor Station – Feasibility Study for Hydrogen Admixture, GER

HYBRID POWER

- Power Supply Hybridization for 166 islands with PV and BESS, MDV
- “Power to Mine” Project – Feasibility Study for the hybridization of Banfora Off-Grid Gold Mine, 24 MW_p (PV) and 35 MWh (BESS), BUR
- 8 Photovoltaic and Hybrid Power Plants, 34 MW, SEN

POWER TRANSMISSION & DISTRIBUTION

- SuedLink 2.0, 525 kV DC UGC, Subproject 3: 680 km, Subproject 4: 527 km, GER
- Yanbu–Medina Phase 3, 380 kV – 95 km and 110 kV – 60 km OHL with Substations, KSA
- Baltica 2 and Baltica 3 OWF Grid Connection, 2.5 GW, Baltica 2 – 84.5 km, Baltica 3 – 54.5 km, Baltic Sea
- Harmony Link Offshore HVDC Interconnector, 700 MW, 290 km, POL–LTU

ENERGY STORAGE

- Limberg II Pumped Storage Plant, 480 MW, AUT
- The Red Sea Project, 140 MW/900 MWh Li-Ion BESS, KSA
- Feasibility Study for BESS for ancillary grid services, primary reserve and integration of variable renewable energy sources, 80 MW / 80 MWh (PV / wind), SEN

HEATING & COOLING

- Białystok Combined Heat and Power Plant, 120 MW_{th} and 80 MW_{el}, POL
- Ingolstadt Heat Storage Facility and Heating Plant, 50 MW_{th}, GER
- Sewage Heat Recovery System, 12 MW_{th}, POL

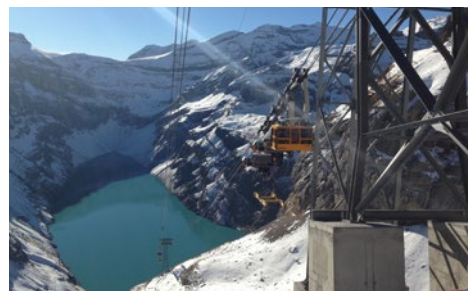


“ILF is your partner for the development, engineering and implementation of environmentally sound energy systems.”

Gianmaria La Porta,
Group Director
Energy & Climate Protection



Hall Biomass-Fired Cogeneration Plant, AUT



Limmern Pumped Storage Plant, SUI

WATER & ENVIRONMENT

We are protecting the water cycle and the environment! ILF offers consulting, engineering and project management services for all types of water and wastewater systems, covering the whole service spectrum from water resource development and water treatment to water reuse. This enables us to ensure the efficient use and sustainable protection of water.



DESALINATION

- Al Basrah Seawater Desalination Project, 1,000,000 m³/d, IRQ
- “Project Wave” Seawater Sulfate Removal Plants, 977,000 m³/d, UAE
- Taweelah Independent Water Project (IWP), 909,000 m³/d, UAE
- Shuqaiq III Independent Water Project (IWP), 450,000 m³/d, KSA
- Spence Growth Options Sea Water Reverse Osmosis (SWRO) Project, 86,000 m³/d, CHI

URBAN WATER SYSTEMS

- Development of an Integrated Water and Wastewater Masterplan in the Riyadh Region, 9,000,000 inhabitants, KSA
- Masterplan for the Recycled Water Supply System in Al Ain, 766,936 inhabitants, UAE
- Irbid and Beit Ras Wastewater Networks, 550,000 inhabitants in Irbid, 22,000 inhabitants in Beit Ras, JOR
- Korça Water Supply and Sanitation System, 85,000 PE, ALB
- Energy Efficiency in the Water Sector II, 36,000 inhabitants, JOR
- Landshuter Allee Tunnel, Sewer Pipes up to 3.3 by 3.7 m, GER

WATER TRANSMISSION

- Common Seawater Supply Project (CSSP), 436 km, 2.0 million m³/d, IRQ
- Rabigh–Jeddah / Makkah Water Transmission System, 229 km, 1.8 million m³/d, KSA
- Jubail–Riyadh Water Transmission System, 408 km, 1.2 million m³/d, KSA
- Ras Al Khair–Riyadh Water Transmission System, 375 km twin line, 106 km single line, 947,000 m³/d, KSA
- Fujairah Phase 2 Water Transmission System, expansion of throughput to 230 MIGD, 130 km single line, UAE
- Lake Constance Water Transmission System, 1,700 km, 648,000 m³/d, GER
- Esperanza Sea Water Supply Project, 144 km, 121,000 m³/d, CHI

WATER TREATMENT

- Dhahran Water and Wastewater Facilities, 100,000 m³/d, KSA
- Kagera Water Works, 30,000 m³/d, UGA
- Korça Water Supply and Sanitation System, 400 I/s, ALB
- Water Projects in Prahova, Bacau, Neamt, Iasi, Buzau, 31 Water Treatment Plants, ROU

WASTEWATER TREATMENT

- Vienna Main Wastewater Treatment Plant (WWTP), 670,000 m³/d, AUT
- Sulaihiya Wastewater Treatment and Reclamation Plant, 600,000 m³/d, KUW
- Czajka Wastewater Treatment Plant (WWTP), 435,000 m³/d, POL
- Jeddah Airport 2 Independent Sewage Treatment Plant, 300,000 m³/d, KSA
- Niederrad Wastewater Treatment Plant (WWTP), 240,000 m³/d, GER

INDUSTRIAL WATER

- Zuluf Water Treatment Facility Project, 560,000 m³/d, KSA
- Marafiq Industrial Wastewater Treatment Plant (IWWTP-8), Stage 4, 125,000 m³/d, KSA
- Industrial Water and Wastewater Treatment Plant (IWWTP) – Jeddah Industrial City 1, Rehabilitation, 35,000 m³/d, KSA
- WWTP for Pharmaceutical Company, 10,000 m³/d incl. 1,600 m³/d highly polluted wastewater, AUT
- Al Mu’ajiz Terminal, Water Treatment and Rehabilitation, 1,600 m³/d, KSA

ENVIRONMENT

- Atdorf Pumped Storage Plant, EIA – Environmental Management and Management of Permitting and Approval Process, GER
- SuedLink HVDC Cable Connection, EIA – Environmental Management and Management of Permitting and Approval Process, GER
- A 59 – 6-Lane Upgrade Duisberg, Study of Alternatives, EIA – Environmental Management and Detailed Design, GER



“There is a need for a fundamental appreciation of water as a precious resource – even more so in the face of climate change.”

Werner Redtenbacher,
Group Director
Water & Environment



Czajka Wastewater Treatment Plant, POL



Ras Al Khair–Riyadh Water Transmission System, KSA

TRANSPORTATION & URBAN SPACES

We are enhancing mobility and urban spaces! ILF is focused on multimodal and connected mobility, as well as on society-oriented building and infrastructure design that optimizes the use of resources. We are hereby able to protect valuable rural areas and create urban structures that meet the needs of tomorrow.



URBAN DEVELOPMENT

- The Red Sea Project (Tourism Development Area), 28,000 km², KSA
- GAMMA Nexus Cyber Park, 4,530,000 m² gross floor area, AUT
- Postsportviertel (Post Office Sports Facility – Urban Development Area), 100,000 m² gross floor area, AUT

RAILWAYS

- Construction of new Western Railway Line between Linz and Wels, 21.8 km, AUT
- Feeder Line North of the Brenner Base Tunnel, Schaftebau–Graßing, 65 km, GER, AUT
- Modernization of the Georgian Railway, 63 km, GEO

URBAN TRANSPORTATION

- Warsaw Metro, Line 2, 19.5 km, 18 stations, POL
- Linz Urban Railway, Line S6, 5.7 km, 4 stations, AUT
- Ho Chi Minh City Metro, Line 2, 18.6 km, VIE
- Lagos Cable Car, 12.5 km, NGR

ROADS

- A 59, 6-Lane Upgrade Duisburg, 6.7 km, GER
- A 99, 8-Lane Upgrade Kirchheim Junction–Haar Junction, 12 km, GER
- A 26, Linz Motorway, 4.7 km, AUT

AIRPORTS

- Berlin International Airport, capacity of 46+ million passengers p.a., GER
- Munich International Airport, capacity of 60+ million passengers p.a., GER
- Ashgabat International Airport, capacity of 14+ million passengers p.a., TKM

TUNNELS & CAVERNS

- Gotthard Base Tunnel, TBM/SEM, 16.9 km, SUI
- 2nd S-Bahn Main Line, TBM/SEM, electro-mechanical equipment, 7.3 km, 3 stations, GER
- Stuttgart 21, Design, Site Supervision and Construction Management, TBM/NATM, approx. 38 km, GER

STRUCTURES

- Construction of new single- and multi-track railway bridges, pedestrian underpasses, Daglfing and Trudering Curve, Munich, GER
- Construction of new Kugelstein Bridge, reinforced concrete arch with a span of 60 m, AUT
- Construction of two new integral reinforced concrete bridges across the B 26 Federal Road, upgrade of Hanau–Nantenbach Railway Line, GER

BUILDINGS

- KFN PSY, Psychiatric Hospital, 22,300 m² gross floor area, AUT
- Innrain 52a University Building for University of Innsbruck, 15,000 m² gross floor area, AUT
- IST Austria Chemistry Lab, research building, 13,000 m² gross floor area, AUT

SKI RESORTS

- Pitztal–Ötztal Ski Resort Connection, 64 ha ski resort, 3 ropeways, AUT
- Shahdag Tourism Complex, EUR 1 bn investment costs, 15 ropeways and lifts, 12 slopes and snow-making systems, hotels and infrastructure, AZE
- Saalbach-Hinterglemm Snow-Making Systems, 10 storage reservoirs, 25 pumping stations, AUT



“Efficient and sustainable multimodal transportation requires reliable and up-to-date infrastructure which is sensibly integrated into both rural areas and urban structures.”

Bernhard Kohl,
Group Director
Transportation & Urban Spaces



Ashgabat International Airport, TKM



New Vienna–St. Pölten Railway Line, AUT



Tunnel Link to Main Station – Stuttgart 21, GER

RESOURCES & SUSTAINABLE INDUSTRY

We are optimizing production processes! ILF uses the expertise gained from successful oil and gas projects to reduce emissions and increase efficiency across all sectors. In doing so, we are following the path towards a carbon-free circular economy in order to ensure a good quality of life for future generations.



UPSTREAM

- Halfaya Oil Field Development, 100 mbpd (oil), 69 mmscfd (gas), IRQ
- Lam and Zhdanov Offshore Fields Expansion, 220 mmscfd (gas), 87 mbpd (crude oil), 13 mbpd (produced water), TKM
- Nawara Gas Field Development, 100 mmscfd (gas), 7 mbpd (condensate), TUN

UNDERGROUND STORAGE

- Wierzychowice Underground Gas Storage, 600,000 Sm³/h (withdrawal), POL
- Crystal Gas Storage Facility, Etzel, 600,000 Sm³/h (withdrawal), GER
- Puchkirchen Gas Storage Plant, 520,000 Sm³/h (withdrawal), AUT

PIPELINES

- Abu Dhabi Crude Oil Pipeline (ADCOP), 403 km, 48", UAE
- Trans-Adriatic Pipeline (TAP), 773 km onshore, 48", and 105 km offshore, 36", GRE, ALB and ITA
- Trans-Anatolian Natural Gas Pipeline (TANAP), 1,800 km, 56" and 48", 7 CS, TUR

TANK FARMS & TERMINALS

- Amman Petroleum Product Terminal, 14 x 34,000 m³ oil tanks, 8 LPG tanks, JOR
- Ceyhan Marine Terminal, 50 million t/a, 7 x 150,000 m³ crude oil tanks, TUR
- Chittagong Refinery Import Terminal and Offshore Pipelines, 150,000 m³ (crude oil), 90,000 m³ (diesel oil), BAN

LNG

- LNG Import Terminal in Odessa, 3 tanks with 540,000 m³ total storage volume, UKR
- Floating Storage Regasification Unit (FSRU) in Gdansk, 4.5–9.0 bn Sm³/a, POL
- Floating Storage Unit (FSU) in Kutubdia, 130,000–145,000 m³ (FSU), 500–600 mmscfd (RU), BAN

FUELS & CHEMICALS

- Schwechat Refinery, PE Plant (PE4), AUT
- Gas-to-Urea and Polyolefin Complex based on 160 mmscfd natural gas, TUR
- Burghausen Refinery, Upgrade of BORSTAR PP Plant, GER

MINING

- Copper Mine Centinela, CHI
- Copper Mine Esperanza, CHI
- Katco Uranium Mine, KAZ

REFINING

- Schwechat Refinery, SN_{0x} – Combined Flue Gas SO_x/NO_x Reduction Plant, 820,000 Sm³/h flow rate, AUT
- Petrobrazil Refinery, Naphtha Splitter, 76.5 t/h feed rate, ROU
- Arpechim Refinery, Dust Filter for FCC Plant, 190,000 Sm³/h flow rate, ROU

INDUSTRIAL

- Copper Recycling Plant, New Slag Granulation Process, GER
- Copper Recycling Plant, Turnaround Management, GER
- Magnesite Plant, Digitalization, AUT

CARBON MANAGEMENT

- Carbon footprint reduction concepts for integrated oil company, RUS
- Mellitah Offshore Gas Field, CO₂ capture and permanent storage, LBA



“ILF is passionate about finding solutions to supply the world with safe and reliable energy and chemicals.”

Christian Heinz,
Group Director
Resources & Sustainable Industry



Trans-Anatolian Natural Gas Pipeline (TANAP), TUR



Amman Petroleum Product Terminal, JOR



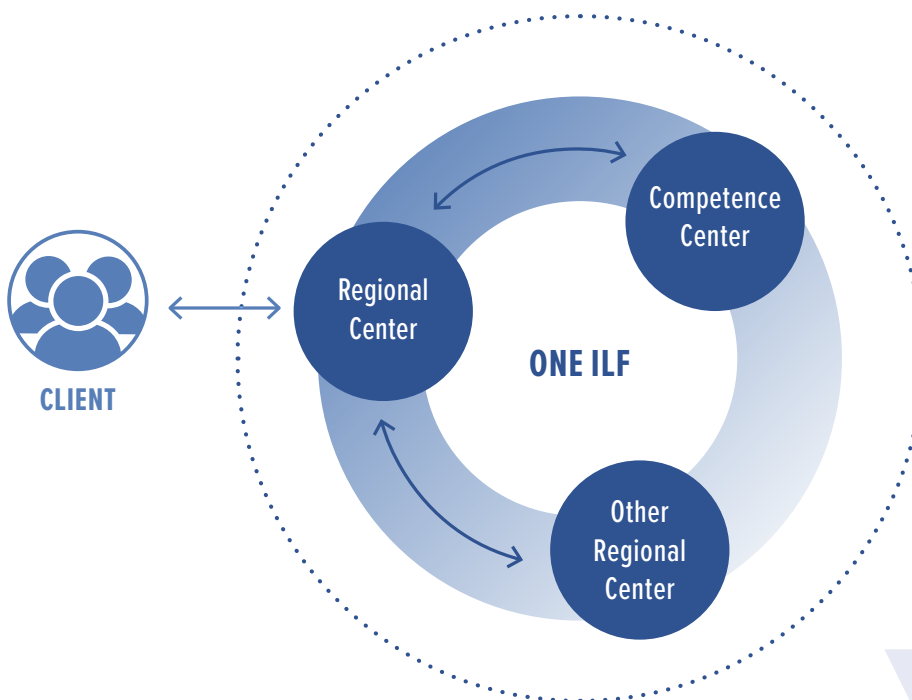
Halfaya Oil Field Development, IRQ

OFFICES AROUND THE WORLD

In the past decade, the engineering services market has undergone some major changes. International clients nowadays want closer cooperation with engineering partners, which requires greater proximity to one another.

There is also growing demand to train local personnel to carry out the jobs instead of bringing in outside personnel. At the same time, ILF's clients also expect international experience and expertise.

ILF's comprehensive, group-wide approach, termed ONE ILF, allows the changing needs of clients to be met.



ONE ILF is based on the belief that optimizing internal cooperation and combining the competencies and capacities available in all ILF offices, provides maximum benefit for clients.

45+
offices across
five continents



AMERICAS

Calgary
Lima
Quito
Santiago de Chile
Seattle

EUROPE

Baar
Berlin
Bremen
Brixen/Bressanone
Dnipro
Dornbirn
Fontainebleau
Essen
Genoa
Graz
Hamburg
Innsbruck
Katowice
Kiev
London

EUROPE

Leipzig/Halle
Leobersdorf
Linz
Madrid
Munich
Ploiești
Poznań
Prague
Stathelle
Stuttgart
Tbilisi
Vienna
Warsaw
Zurich

AFRICA

Lagos

MIDDLE EAST

Abu Dhabi
Al Khobar
Amman
Dubai
Erbil
Riyadh

ASIA-PACIFIC

Almaty
Ankara
Atyrau
Bangkok
Beijing
Dhaka
Lahore
Mumbai
Tashkent
Vientiane

INNOVATIVE THINKING

Following the example set by the founders since the company's beginnings, ILF attaches great importance to innovative solutions. ILF's understanding for and promotion of innovation is reflected in the technical solutions, materials and work stages, as well as the work processes and tools used throughout the Group.





“Keeping an open mind, thinking outside the box, and unleashing creativity, whilst challenging the status quo and striving for improvement, ILF walks a path of innovation, delivering engineering excellence.”

Klaus Lässer, CEO

ILF works together with universities and public and private entities, participating in research projects in different sectors. In addition, ILF is actively involved in various working groups, developing new guidelines, concepts and tools.

Examples of innovative spirit at ILF:

- GIS-based constraint mapping
- RenRisk – sustainable project optimization for hydropower plants
- Digital twin development
- Computational design in infrastructure projects
- Urban Design Technologies – digital toolbox
- BIM-based quality assurance
- Chemical recycling of plastic waste and integration into a circular economy – joint research with Vienna University of Technology (TU Wien)
- Integrated urban drainage and flood risk management for the increased resilience of communities in a changing world – pilot studies in collaboration with universities
- Development of closed treatment systems for contaminated sludge to avoid exhaust air emission and water pollution
- Holistic approach to the design and control of industrial facilities – together with various research centers and institutes
- Utilization of micropiles for pipeline stabilization in earthquake affected terrain
- Multidisciplinary simulations of water resources under present and future climate conditions – in cooperation with alpS GmbH and the University of Innsbruck
- Improvement of the resilience of road tunnels through the utilization of Artificial Intelligence



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