



**UPSTREAM
FACILITIES.**

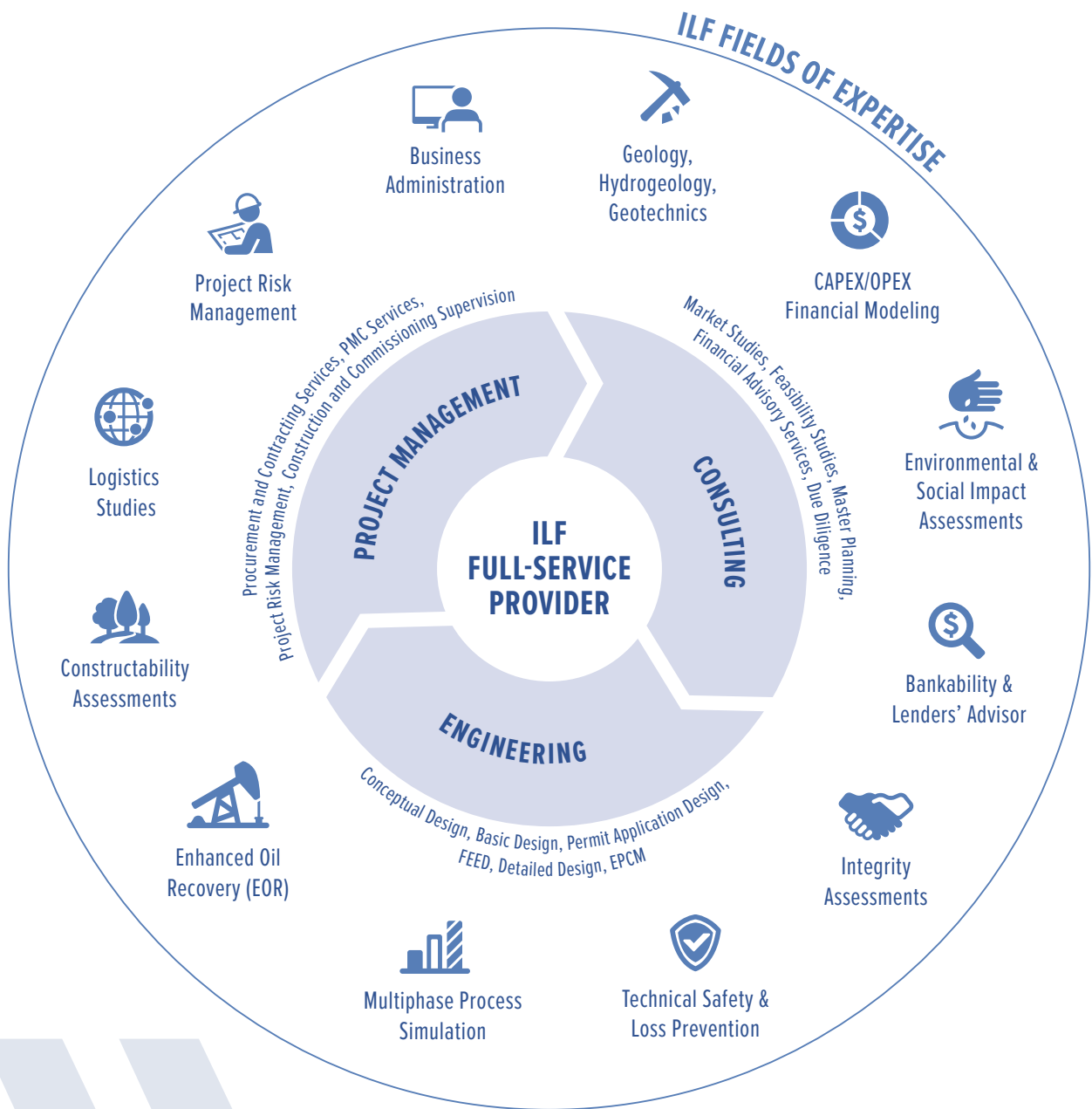
ENGINEERING EXCELLENCE.



CONSULTING
ENGINEERS

UPSTREAM FACILITIES

Population growth and the ongoing endeavor to improve living standards are leading to an increase in the global demand for energy. With oil and gas still providing the largest share in the projected energy mix, it is ILF's mission to develop sustainable green and brownfield projects, which meet the highest health and safety, as well as environmental and societal standards.



For over 50 years, ILF has been providing comprehensive services for exceptional upstream projects, amongst others for the major oil and gas fields of Samotlor, Halfaya, Novy & East Urengoy, and for Offshore Nigeria.

Many of the projects which ILF has engineered, provided consulting services for and managed have encompassed a wide range of processes and environmental conditions, as well as various levels of complexity and size, including:

- CAPEX: ranging from small (5–10 million USD) to world class projects (8 billion USD)
- Capacities: from a few hundred barrels per day or million standard cubic feet per day to 544 mbpd or 1616 mmscf (16 bcma)
- Sour gas: up to 30 mol-% H₂S and 17 mol-% CO₂
- Heavy oil: 20°API (pipelines: 10°API)
- Produced water: extreme chloride content leading to nickel alloy material
- Operations: high pressure and high temperature wells (200°C)
- Environmental conditions: from Arctic to desert climates



“Whatever challenges our clients take on, ILF’s engineering and project management solutions, customized to clients’ specific needs, enable the value of projects to be maximized.”

Helge Hoeft,
Head of Process Engineering

PROJECT HIGHLIGHTS

- Samotlor Oil Field Redevelopment, Brownfield – Conceptual Design, Russia
- North-Veni Gas Field Development, Greenfield – Conceptual Design and FEED, Russia
- Nawara Gas Field Development, Greenfield – Detailed Design, Tunisia
- Halfaya Oil Field Development, Greenfield – PMC Services, Iraq
- Expansion of Lam and Zhdanov Offshore Fields in the Caspian Sea, Brownfield and Greenfield – FEED and PMC Services, Turkmenistan
- Usari Pressure Maintenance Platform, Brownfield and Greenfield – FEED, Offshore Nigeria
- Matzen Oil Field Polymer Flooding Project, Brownfield – EPCM, Austria
- Mature Oil Field Redevelopment, Early Steamflood Project (EOR), Brownfield – EPCM, Germany





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