HYDROGEN.

ENGINEERING EXCELLENCE.

ILF
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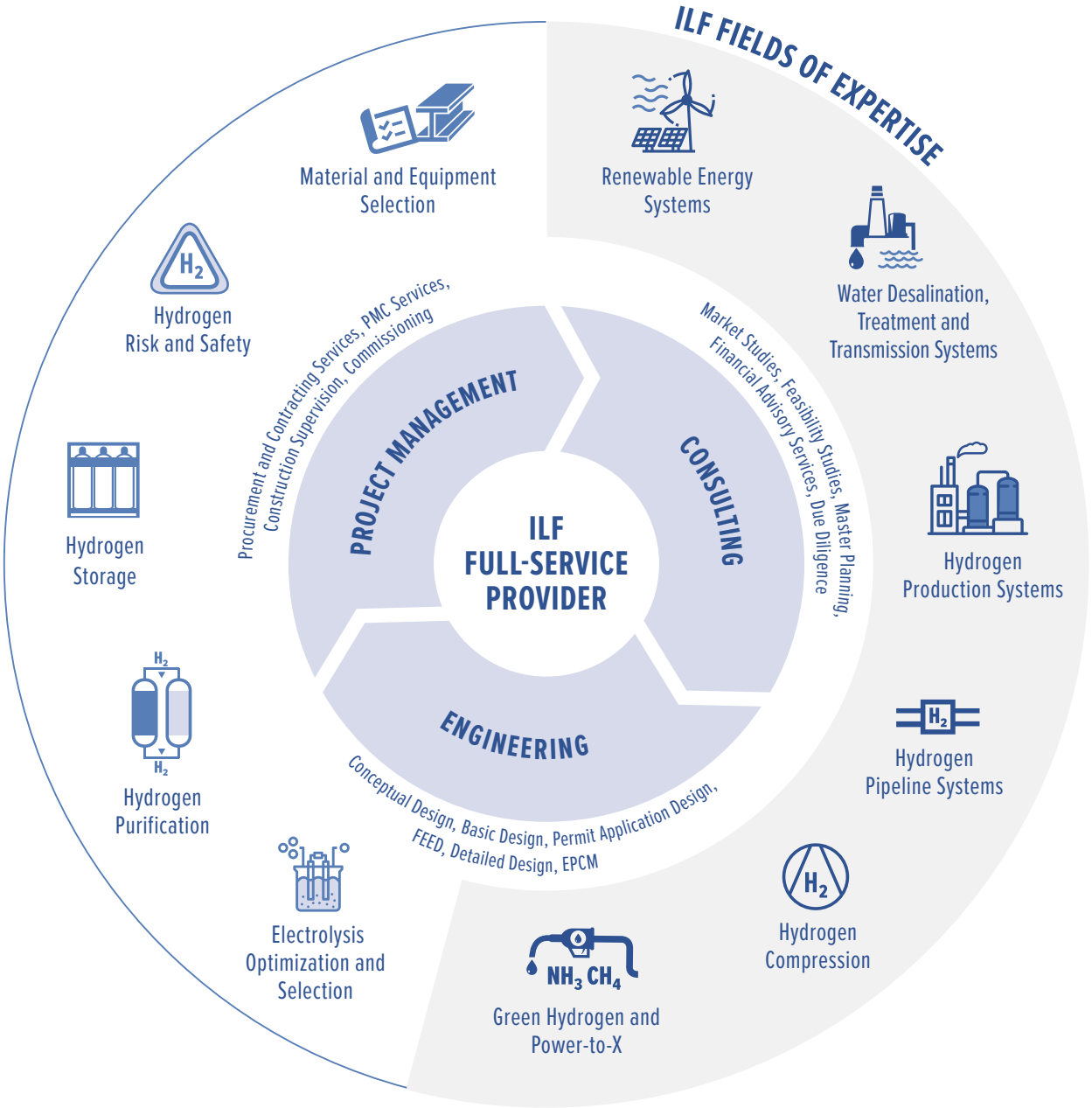
HYDROGEN

Hydrogen-related projects are not new to ILF, as they have been part of ILF's pipeline, refinery and petrochemical business for over 20 years. ILF's extensive engineering expertise covers the entire hydrogen value chain, including the design of facilities for renewable electricity generation and water treatment, as well as hydrogen production, storage and transport.



SHAPE THE FUTURE WITH US!
#ENGINEERSFORHYDROGEN

With it being possible to produce hydrogen solely from renewable energy sources, hydrogen can be seen as an environmentally-friendly fuel and power alternative. Hydrogen furthermore has the great advantage that it can be used as a long-term storage solution for electric power, as a feedstock for industry, or as fuel for mobility.

ILF has first-class experience in designing H_2 pipeline systems and H_2 facilities, as well as in successfully developing and implementing feasibility studies and detailed designs, including permit application designs for hydrogen production, storage and transport facilities. As a full-service provider, ILF offers an interdisciplinary and fully-integrated approach to hydrogen projects. ILF's comprehensive solutions combine proven project execution and engineering methodologies from the oil and gas sector with the flexibility to adapt to innovations and rapid developments in the hydrogen market.

"With the worldwide enthusiasm for hydrogen rising, we endeavor to contribute to the shaping of a sustainable future by applying our knowledge and experience in engineering hydrogen production, storage and transport facilities."

Michel Kneller,
Business Area Manager – Hydrogen

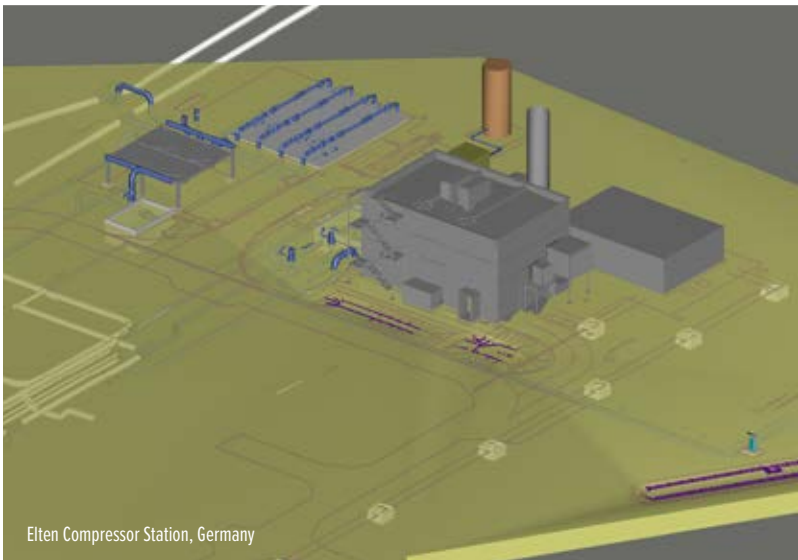
PROJECT HIGHLIGHTS

- DEMO4GRID PROJECT – Owner's Engineer for a 4 MW electrolyzer facility, H_2 storage facilities, as well as an H_2 refueling station, Austria
- "ELEMENT ONE" PROJECT – Feasibility study for a 40–100 MW power-to-gas facility including an electrolyzer facility, a methanation plant, an H_2 pipeline as well as H_2 injection into the existing gas network, Germany
- RED SEA DEVELOPMENT PROJECT – Feasibility study investigating hydrogen as a potential energy storage solution for up to 50 MW of excess power from renewable generation sources, Saudi Arabia
- ELTEN COMPRESSOR STATION – Feasibility study investigating the implications on machinery, balance of plant and pipeline when mixing hydrogen to the existing natural gas system, Germany
- HYDROGEN HYBRID PUSHER TUG – Conceptual study for the development of a hydrogen powered pusher tug boat for the port of Hamburg, Germany
- HIGH PRESSURE GAS PIPELINE – Conceptual study for the admixture and transport of hydrogen in the existing gas pipeline system, Czech Republic

Demo4Grid Hydrogen Project, Austria

"Element One" Project, Germany

The Red Sea Development Project, Saudi Arabia



Elten Compressor Station, Germany

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