

OVERHEAD LINES AND UNDERGROUND CABLES ELECTRIC GRID EXPANSION.

ENGINEERING EXCELLENCE.

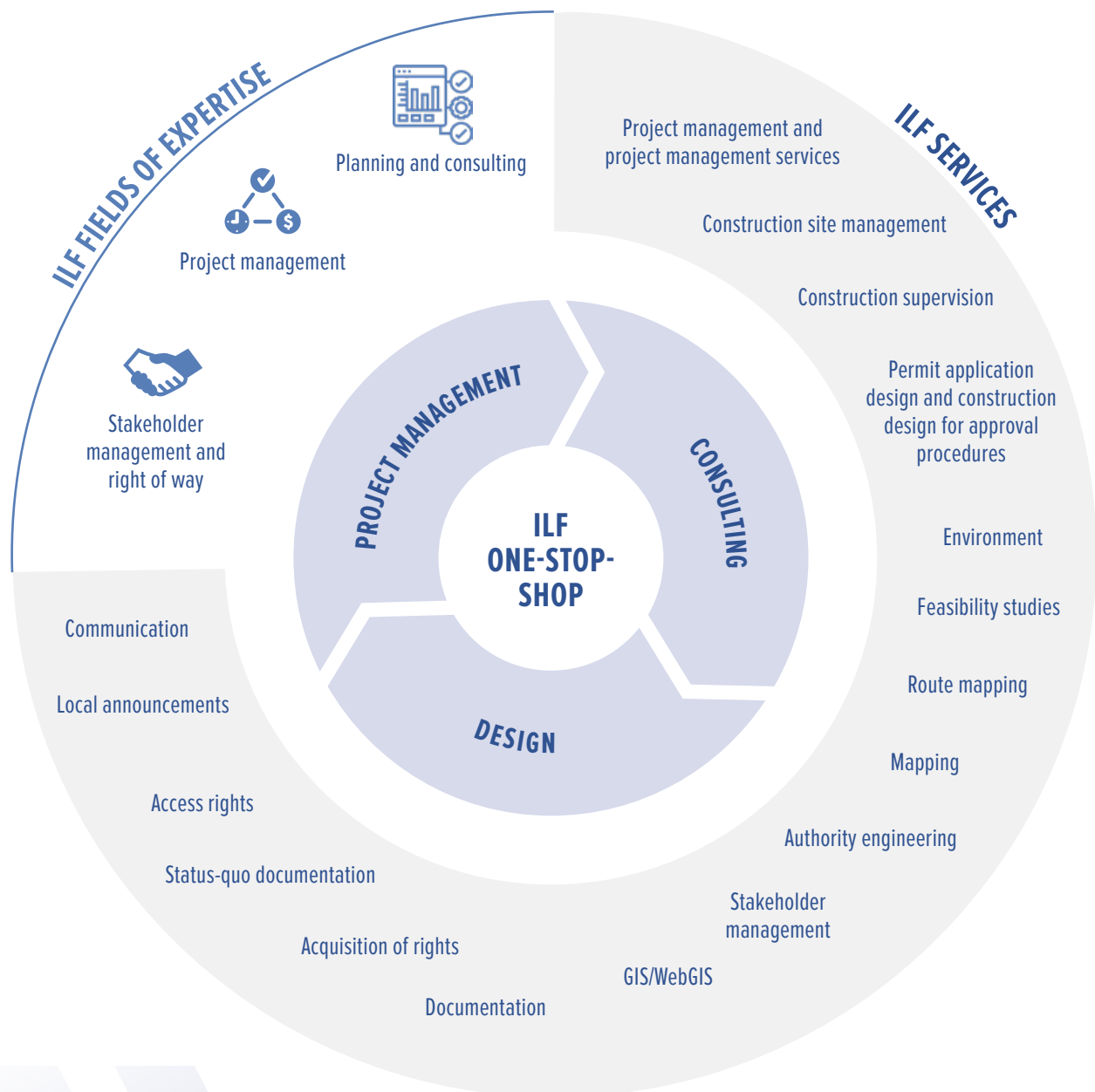


CONSULTING
ENGINEERS

ELECTRIC GRID EXPANSION

As part of the gradual phase-out of fossil energy sources towards sustainable primary energy production, grid expansion for electricity plays an essential role in securing the energy supply. This involves the transportation of energy in the form of electricity from renewable sources, moving from production areas to consumers, which is of crucial importance.

ILF contributes its full expertise from the planning of large-scale infrastructure projects in the energy sector to the implementation of grid expansion projects. This ensures that the diverse, deadline-driven requirements and the high public visibility of large-scale projects of national importance are successfully met.

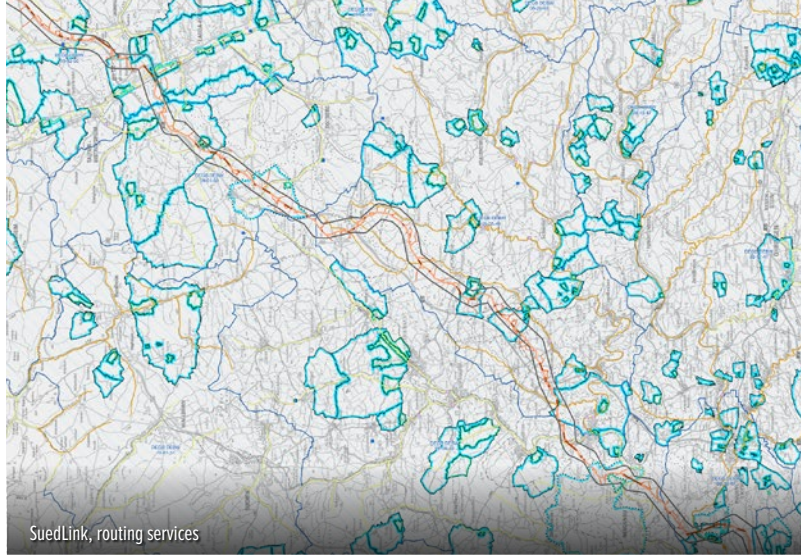


ILF IS THE MARKET LEADER FOR LARGE UNDERGROUND CABLE PROJECTS IN GERMANY AND WAS RANKED 7TH TOP INTERNATIONAL DESIGN FIRM FOR POWER TRANSMISSION AND DISTRIBUTION BY ENR 2025

The planning and implementation of new power lines plays an important role in the expansion of the electricity grid. Sustainably generated energy, produced in windy regions, for example, must be transported to consumption centers.

Overhead lines and, above all, underground cables are the optimal technical solution. ILF works on these projects as a general planner or as a specialist planner, depending on the client's requirements.

The essential services required for planning, from project management & project control, technical design & routing, environmental & permit application design, stakeholder management & right of way, as well as GIS/WebGIS services, can all be provided from a single source.



"In order to limit the effects of climate change, implementing the energy transition is essential. ILF plays a key role by taking the lead in grid expansion projects."

Christian Roland,
Business Area Manager of Electric Grid Expansion

PROJECT HIGHLIGHTS

SuedLink, Germany:

- HVDC underground cable connection, 525 kV, approximately 700 km route length, 2 x 2 GW transmission capacity
- Specialist planning and project management as part of the permit application design in accordance with sections 6, 8, 19 and 20 and sections 21 to 24 (here sections PA1 North and PA7-9 South are pictured) NABEG
- Construction design, support with the awarding of civil engineering services

Rhine-Main-Link, Germany:

- HVDC underground cable connection, 525 kV, approximately 600 km route length, 4 x 2 GW transmission capacity
- General planning services

SuedOstLink, Germany:

- HVDC underground cable connection, 525 kV, approximately 600 km route length, 2 x 2 GW transmission capacity
- Construction site management – sections A1 and B



Occupational safety tested according to ISO 45001:2018, SCC*:VAZ 2021 and SCL level 3 (version 4.2)





CONSULTING
ENGINEERS

www.ilf.com