UNTERNEHMENSGRUPPE
LUDWIG FREYTAG
Bauunternehmen seit 1891

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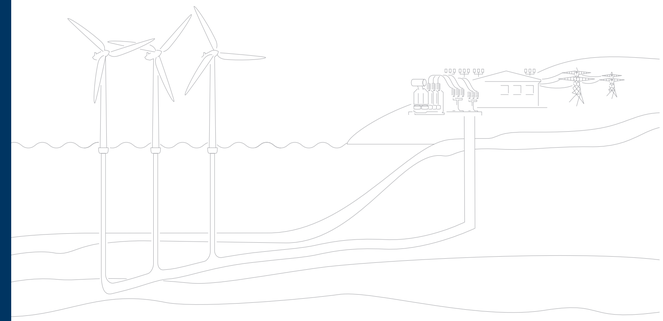
We bring the **power ashore**.



COMPLETE SOLUTIONS FROM ONE SOURCE: LUDWIG FREYTAG GROUP

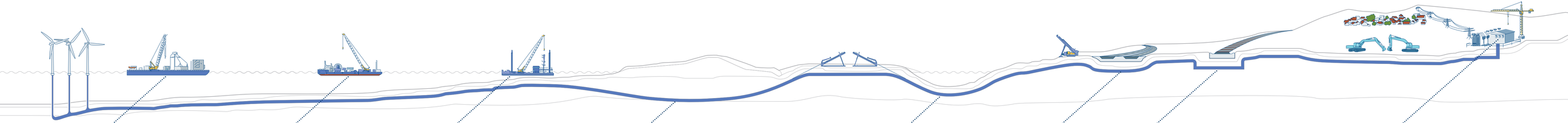
When Ludwig Freytag founded his construction company in 1891, he was already dedicated to the aim of supplying comprehensive construction services. Since then, experience, quality consciousness and solidity characterise each individual building project of the Ludwig Freytag Group.

Thanks to these virtues and to a continuous development, we are now working in numerous highly specialised business fields while simultaneously providing comprehensive services, from planning to turnkey construction and maintenance to supervision of all kinds and sizes of construction projects.

The cumulative expertise from four generations of construction work as a family-owned company, the performance and innovative strength of about 1,300 qualified employees, as well as the versatility of the medium-sized group with its short decision routes guarantee optimal performance of all tasks relating to construction.

Particularly challenging construction projects for renewable energy production and distribution – whether on land or on water – offer us a challenge that we gladly face with performance within the Group.

Four partners, one target: We bring the power ashore!



TAGU: CABLE LAYING OFFSHORE

Tiefbau GmbH Unterweser (TAGU) is a civil engineering company which offers the classic range of hydraulic engineering constructions, including heavy pile driving works.

This spectrum is complemented by submarine cable installations, offshore services and subsea cable landfalls. Our focus is on both technically and environmentally challenging areas, such as surf zones, protected tidal flats, as well as dunes and dike sections. Regarding this the TAGU team has extensive experience within the particularly sensitive maritime areas.

We take advantage of modern technologies: The multipurpose barge «NOSTAG 10» is used as a cable lay barge in the North and Baltic Sea, while the cable lay barge «VETAG 8» is specially designed for operations in very shallow waters such as the German and Dutch Wadden Sea. A 1,000 t cable carousel and linear cable machines with a capacity of up to 11 t belong among other cable laying equipment to the specific equipment. Modern excavators and crawler cranes with lifting capacities of up to 300 tons and further pontoons and work boats are also part of TAGU's powerful and modern machine pool.

Many experienced engineers, foremen and industrial workers ensure a high-quality execution of port and hydraulic engineering projects, as well as in the field of offshore cable laying and all maritime services.

As TAGU, we are the offshore and hydraulic engineering experts within the Ludwig Freytag Group.

Learn more: **www.tagu.de**

LMR DRILLING: HORIZONTAL DIRECTIONAL DRILLINGS

In the field of controllable horizontal directional drilling, LMR Drilling is a leading company with great experience in the European market. From the feasibility study, pipeline engineering to execution, our clients get everything from one source – and even tailored to their needs. As LMR Drilling is represented in many European countries by means of an extensive corporate network, a close contact to the customer is always guaranteed.

Pioneering projects, research and developments in the HDD technology and world record drillings go back to LMR Drilling (Crossing the Solent on the English south coast of 2 x 3926 km length in 2011).

Due to many years of experience in the development and implementation of unique solutions in the HDD technology, we have carried out numerous, challenging crossings of natural or artificial barriers and structures with pipes of all kinds, including landings for various transmission systems.

We are developing steadily: Thus, today drilling lengths of more than 4,000 metres and boreholes with a diameter of > 1,800 mm can be realised by LMR Drilling. Our company currently operates four large drilling rigs with tensile and compressive capacities of 800 to 3500 kN and torque capacities from 50 to 180 kNm.

As LMR Drilling, we are the experts for horizontal crossings and landings of all kinds within the Ludwig Freytag Group.

Learn more: **www.lmr-drilling.de**

LUDWIG FREYTAG: CIVIL ENGINEERING & PIPELINE CONSTRUCTION

For many decades, Ludwig Freytag realised projects in all areas of pipeline construction – in Germany and in other European countries. We design and construct the associated special structures, regardless of the medium, the pressure level, the tubing or the cable specification. Though we utilise and mount pipes and cables for the municipal energy supply, for transmission lines and for industry customers providing for continuous business operations if required.

Use of grave-free technologies in crossings of sensitive plants or restricted areas like water features, rail systems, roads and bridges is a self-evident fact for us. We put highest importance to the sustainability of our services, as well as on environmental awareness, safety and services in time.

Of course, we are in possession of all relevant approvals and certificates to be able to carry out our works and, therefore, consider ourselves as the experts in all types of civil engineering, pipeline construction and cable line works within the Ludwig Freytag Group.

Learn more: **www.ludwig-freytag.de**

LUDWIG FREYTAG: BUILDING CONSTRUCTION & STRUCTURAL CIVIL ENGINEERING

The building and structural engineering team of Ludwig Freytag performs all work for the construction of complex industrial and commercial buildings and has done so for decades. Civil engineering structures for the infrastructure and special structures with extensive requirements for a construction-plant extend the field of our activity.

Starting from the planning phase and based on the planning design, we even implement turnkey projects. The in-house design and engineering office enables the development of the detailed design, including auditable calculations, related formwork and reinforcement plans for all foundation and building parts.

On request, we also create geotechnical reports, calculate deep foundations if needed and carry out all these services for our clients. Required precast reinforced concrete parts for all components of building construction can be planned and delivered by our own precast plant.

With all necessary approvals, we are the experts in building and civil engineering of all kinds within the Ludwig Freytag Group.

Learn more: **www.ludwig-freytag.de**

We are certified:

- Quality Management System acc. to DIN EN ISO 9001:2008
- HSE Management System acc. to SCC** Safety Certificate Contractors
- Environmental Management System acc. to DIN EN ISO 14001:2009
- Pipeline Construction acc. to DWGW GW 301, Group G 1, W 1, R 2
- Horizontal Wash Drilling Method acc. to DVGW GW 302, Group GN 2, acc. to DVGW GW 321
- Welding Works Certification acc. to DIN EN ISO 3834-2
- Certification acc. to DIN EN 1090 (CE-Marking)
- Certification acc. to DVGW W 120 Drilling and Well Construction
- Works acc. to Quality Mark Power Line Constructions RAL GZ 962/2
- Works acc. to Quality Protection Sewer Construction Group AK 2
- Specialised Company acc. to "Wasserhaushaltsgesetz" (WHG)
- District Heating Pipeline Construction acc. to AGFW FW 601, Group FW 1
- DB Qualification Certificate for infrastructure construction works during railway services
- Qualified Company for concrete refurbishment works
- Qualified Company for grouted reinforcement connections
- Prequalification Register Number 010.075860