



Offshore Wind Farm

Power generation on the high seas presents huge challenges to all the parties involved. This requires reliable partners with experience.

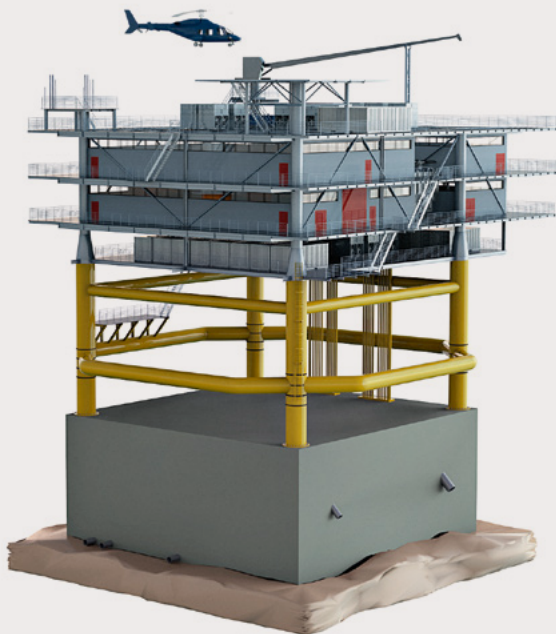
Offshore substation

Turnkey cable systems from the specialists

The converter station is both the core of every offshore wind farm and always a masterpiece of engineering skills. All installation work takes place in a confined space, contrary to sites in-land where there is significantly more space available.

Constructing cable systems on offshore substations requires the ultimate discipline of cable-laying. Highly complex cable routes must be installed in a confined space around many corners and on several levels. Considerable time pressure and the construction of other subsections at the same time further complicate the task. Successfully overcoming this challenge requires meticulous planning and specialists with solid experience in the industry.

PFISTERER has been there from the very beginning. We have closely accompanied the process from the idea of a power station on the high seas to the construction of the first offshore wind farm. PFISTERER has set industry standards, our project management and our products are state-of-the-art today.



The services we at PFISTERER provide include the entire project management, the evaluation, the installation and assessment of the cable systems including high-voltage cable systems with XLPE cables up to 245 kV.

Wind power plant

All connecting components from a single source

PFISTERER is the expert on interfaces for power grids. We connect all system parts of the wind turbine reliably and safely. Our components are weather-resistant, salt-water resistant and shockproof. They are installed on site.

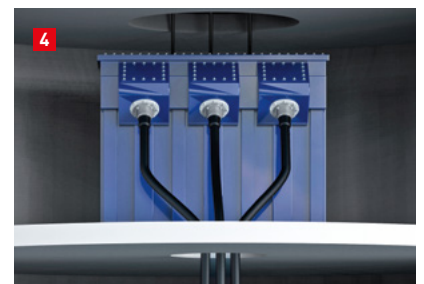


Connection from generator and converter

The low space PLUG angle connectors are quick and safe to install and maintenance-free. The connection can be quickly and easily unplugged whenever necessary.

- Short assembly and downtimes
- Low space requirement

The plug coding prevents faulty connections.



Connecting the transformer

Both sides are easy to connect. On the low-voltage side with the PLUG, on the high-voltage side with the CONNEX system.

- Quick and easy installation
- No on-site gas or oil work required

Special accessories for assembly make the installation easier too.

Our PLUG and CONNEX pluggable systems as well as our SICON connector are designed simply. All system components are made specifically for offshore operation: they are pre-assembled with the cables and can be easily and safely installed.



Connection between the gondola and tower

The PLUG system's high-quality materials and sophisticated technology guarantee reliable contact during the entire service life of the system.

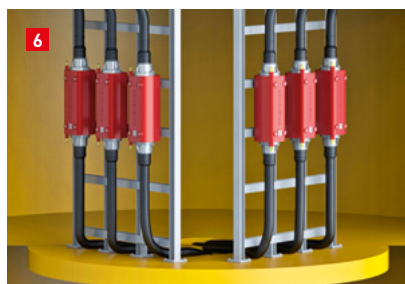
- Low contact resistance
- No creep corrosion

More than 4,100 PLUG connections are installed on the Global Tech I.

Connection of different cables

With the patented SICON screw connectors, ultra-flexible copper and cost-effective aluminium conductors can easily be connected to one another.

- Reliable contact of all conductors
- Installation with standard Allen key



Connecting the switching station

Whether it is 33 kV or 66 kV, aluminium or copper cable: CONNEX always has the right system.

- All cable variants can be connected.
- DNV GL offshore certification.

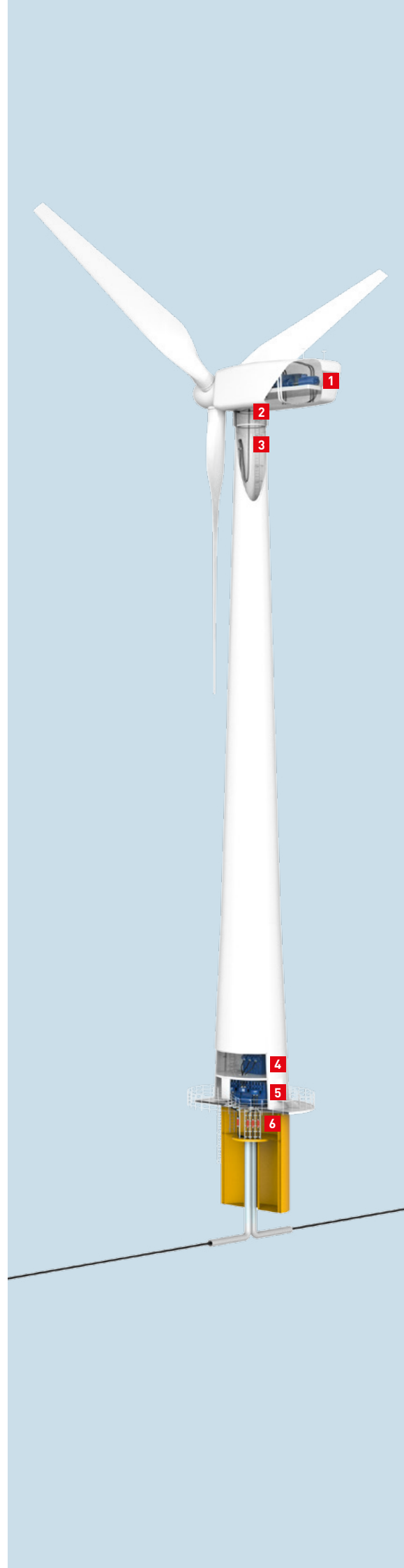
Along with CONNEX, PFISTERER provided the basis for the IEC 62271 and IEC 60137 standards.

Interface to the wind farm network

The solid-insulated CONNEX connection does not require SF₆, it is reliable and maintenance-free and can be easily disconnected whenever necessary.

- No gas monitoring
- Fully submersible and salt-water resistant

The vertical barrier prevents water penetration as a result of cable faults.



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The PFISTERER Group, which also includes LAPP Insulators, is amongst the world's leading specialist equipment and system suppliers in the energy infrastructure industry. Around 2,700 employees develop, produce and distribute components and complete solutions for the particularly sensitive interfaces in modern energy networks. With a complete range of products and services, the PFISTERER Group provides customised solutions for the complete transmission chain from low and medium to high and ultra-high voltage. Everything from a single source. Worldwide For our customers, that means: the best possible solutions for all their requirements – now and in the future.