

In addition to commercial projects, we are a pioneer in the field of floating substructures based on the TLP principle. We conduct our own research and development and are very well networked in the international scientific community. Together with our partners, we are further developing new ideas for the future of the offshore wind industry. We are holding several international patents.

Main areas of research:

- Development of technologies from the feasibility study to the detailed design
- Planning and execution of large-scale tests
- R&D tasks in the field of floating offshore wind and onshore wind with high hub heights

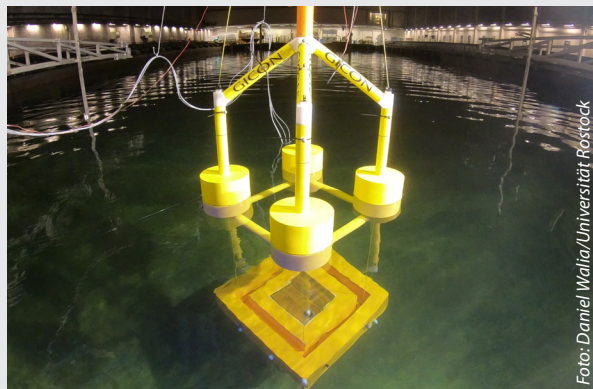


Foto: Daniel Waita/Universität Rostock

Tank tests are one part of our large-scale tests

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Ein Unternehmen der
GICON®
Gruppe

GICON®-Grossmann Ingenieur Consult GmbH is part of the GICON® Group, a group of companies providing independently operating engineering services. The companies together employ about 500 people and draw on the expertise of several thousand projects at home and abroad.

as of 10/2021

WIND ENGINEERING

Services

WHO WE ARE

Our wind engineering team supports you in all engineering phases of your on- or offshore wind project. Your advantages: You can rely on years of experience in the field of offshore substructures. We support you from the site analysis, the wind farm assessment to the engineering of your foundations and substructures of your wind farm. Together with the companies of the GICON® Group (IfAÖ GmbH, Windrad Engineering GmbH and GLU GmbH) we offer services from ecological approval planning, geotechnical investigation and analysis to primary steel detailed design. As a member of different networks in the wind energy branch, we always base our works on the latest findings in the industry.

As part of the GICON® Group, we can take an interdisciplinary approach to your projects, have access to worldwide references and over 400 engineers throughout Germany to guarantee implementation "from a single source".

Our clients come from the following areas:

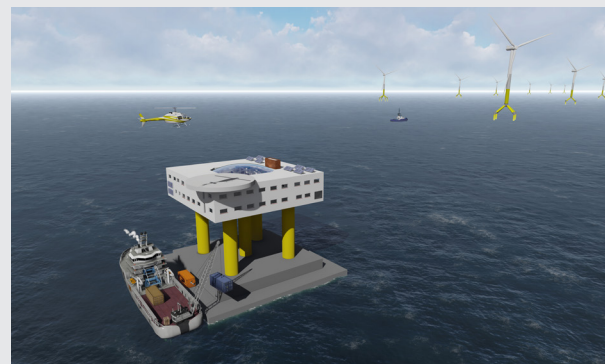
- Oil & gas
- Off-/Onshore wind
- Solar energy
- Public authorities

COMMERCIAL PROJECTS

Our team is your partner for all commercial projects. Starting with the engineering of your substructure or topsides for offshore applications up to the preparation of expert opinions in the regulatory context. Furthermore, we are available for onshore wind tower and foundation design. All together we are offering owners engineering services for on- and offshore wind. We rely on the resources of the entire GICON® Group and its engineers. Our international team is available to you at anytime, anywhere in the world.

Main focusses:

- Design, engineering and production engineering for fixed and floating offshore wind primary/sec. steel substructures and foundations
- Design, engineering and production engineering for offshore wind foundations
- Design, engineering and production engineering for onshore wind towers and foundations
- Risk assessment for offshore wind applications
- HSE analysis for offshore wind applications
- Owners Engineering



Space@Sea - Operation & Maintenance Platform

REFERENCES

As a result of many years of experience, we can fall back on international references in the field of wind engineering:

ONSHORE WIND

- FEED & DDE for a 300 m wind met-mast
- Verification and analysis of the measuring mast
- Design of the sensor system
- Concept Design for onshore wind turbine towers
- Owners engineering and consulting for different wind farm projects

OFFSHORE WIND

- Offshore Wind Farm development
- Creation of the basis of design
- Market surveys
- FEED & DDE of the entire substructure
- Monitoring system design
- Load-out, integration, transportation & installation analysis / procedure
- Miscellaneous design for TLP
- Floater operational and accidental boat impact analysis
- Mechanical cable layout engineering

OPERATION & MAINTENANCE PLATFORM

- Creation of the basis of design
- Global performance
- FEED of entire topsides
- Load-out, integration, transportation & installation analysis / procedure