

WTG FOUNDATIONS



ISC

ISC CONSULTING ENGINEERS

We are an engineering services company based in Denmark, where the company was founded in 1967.

ISC provides engineering design and service solutions within renewable energy, offshore oil & gas, buildings, industry and infrastructure. We have worldwide experience with projects in more than 70 countries.

ISC counts more than 250 employees in 2025 and are continuously growing.

We have offices located in Copenhagen, Aarhus, Aalborg, Esbjerg, Viborg, Kalundborg and Kolding in Denmark, and Taipei in Taiwan.

WTG PROJECTS IN 30+ OFFSHORE WIND FARMS

We have been providing engineering services to offshore wind projects since we designed the world's first offshore substation more than 20 years ago.

Based on decades of experience in offshore construction, we believe that by choosing us, you will achieve more optimal solutions, better coordination, and significant savings on steel. Therefore, we believe that we at ISC should design both primary and secondary structures for your next WTG project.

ISC maintains standing agreements of cooperation with individual experts and public scientific institutions, thereby supplementing the company's know-how in connection with assignments requiring multiprofessional teams of specialists outside the company's own staff.



WTG FOUNDATION DESIGN

Our offshore experience has given us expertise that we utilize in WTG foundation projects. This covers various types of underwater structures, including monopile and various jacket types.

We have experience working with local authorities throughout Europe, APAC and the US to create regulatory approved solutions in accordance with local regulations.

We have solid experience liaising with all stakeholders within a WTG foundation project. Taking into account inputs from O&M, HSE, WTG supplier, fabricators, and various installation parties among others.

TRANSPORT & INSTALLATION

We have made installation tools and sea fastening designs for topsides, jackets, and monopiles for both short and long sea voyages considering sea transportation loads and fatigue loads.

We have long-lasting experience with engineering of constructions for installation and transportation of offshore structures. Our experience with multiple international projects and customers prove that we can deliver in all project phases from FEED to detailed design through supervision during fabrication and offshore installation.

We always provide reliable engineering services as we know that the T&I phase is a cost-intensive part of any offshore project.

Overview of WTG projects where ISC has been involved with the design



ENGINEERING DISCIPLINES

We cover all engineering disciplines within concept, FEED, detailed design fabrication, installation and operation & maintenance.

- Structural Design
- Motion Analysis
- Secondary Structures
- Mechanical
- Piping & Process
- FE-Analysis
- Safety (HSE)
- HAZID
- Electrical
- Fire & Safety

Primary Steel

- MP/TP (incl. Grouted or Bolted Connection)
- Extended MP without TP
- Jackets

Special

- H2 producing WTG platforms
- Bumpers and Guides for installation
- O&M Structural Integrity Assessment
- Pile Gripper
- Client Specific Technical Standards

Secondary Steel

- **Anode Cages**, offshore installed, no divers
- **Boat Landing and Ladders**, on- and offshore installed
- **External Platforms**, concrete or steel, on- and offshore installed
- **Internal Platform Modules**, on- and offshore installed
- **Internal Bolting Platforms**, airtight, on- and offshore installed
- **J-tubes**, on- and offshore installed

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