The Company

ISC Consulting Engineers A/S was founded in 1967 by Kjeld Thomsen M.Sc. (Struct. Eng.), former associate professor at the Technical University of Denmark.

ISC offices are located in Copenhagen, Esbjerg, Viborg, Kalundborg, Kolding, Aarhus and Aalborg in Denmark, and Wellington in New Zealand.

ISC provides comprehensive independent consulting services within all fields of planning, feasibility studies, civil, structural, mechanical, process and electrical engineering on a worldwide basis.

ISC has exceptional experience and knowledge in the field of planning and design of advanced civil works such as Industrial Plants, Power Stations, Port Facilities, Oil & Gas, Airports, Bridges and Railways.

ISC has worldwide experience gained on projects carried out in more than 70 countries on five continents.

The Staff

The combined staff of the company comprises 250 employees (year 2019/20) of which approximately 70 percent are graduates in civil and structural engineering, electrical or mechanical and related disciplines. The company’s expertise also covers management, planning, computer applications, information systems and maintenance systems.

Furthermore, 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.

For further information about the products and services ISC Consulting Engineers A/S can provide, please visit www.isc.dk

ISC Consulting Engineers A/S
Øster Allé 31
DK - 2100 Copenhagen Ø
Denmark
Phone: +45 35 27 88 00
Email: info@isc.dk
Web: www.isc.dk
WTG Foundation Design

ISC Consulting Engineers A/S has extensive experience in the design of offshore foundations for Oil & Gas and Offshore Wind.

ISC's experience in the design of offshore structures is founded on knowledge obtained from over 40 years in the offshore Oil & Gas industry and more than 15 years in Offshore Wind.

Engineering including Concepts, FEED, Detailed Designs, fabrication follow-up, Concrete Gravity Base Structures (GBS's), Monopile/Transition Piece, Jackets and Tripod Structures.

ISC has performed various detail design parts for WTG Foundations for offshore windfarms and has been assisting major energy companies among that Ørsted and Vattenfall on more than 20 offshore wind farms for WTG foundation designs.

ISC’s portfolio clearly demonstrates a comprehensive expertise within the field of offshore wind foundation design, including a broad spectrum of jacket, monopile and gravity based substructures.

ISC has also demonstrated the ability to work alongside local authorities across Europe to produce superior solutions which conform to the local regulations and authority approval.

Engineering Disciplines

We cover all engineering disciplines within Concept, FEED, Detailed Design Fabrication, Installation and Operation & Maintenance:

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

Projects

ISC has been involved in the design for WTG Foundations on the following projects:

- Borkum Riffgrund 1 + 2 + 3 (GER)
- Borssele 1 + 2 (NL)
- Barrow (UK)
- Burbo Bank Extension (UK)
- Formosa III (FEED) (TWN)
- Greater Changhua 1 + 2 (TWN)
- Gode Wind 1 + 2 + 3 (GER)
- Hollandse Kust Zuid 1 + 2 + 3 + 4 (NL)
- Horns Rev 2 (DK)
- Hornsea 1 + 2 (UK)
- Kaskasi II (GER)
- Kriegers Flak (DK)
- Ocean Wind 1 (US)
- Race Bank (UK)
- Skip Jack 1 (US)
- South Fork 1 (US)
- West Coast of Virginia 1 (US)
- Westermost Rough (UK)
- Walney 2 + 3 + 4 (UK)

The following tasks have been, amongst others, performed on WTG Foundations projects. The tasks performed on each project depend on the requirements from the client and owner.

Primary Steel:

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

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

Special:

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