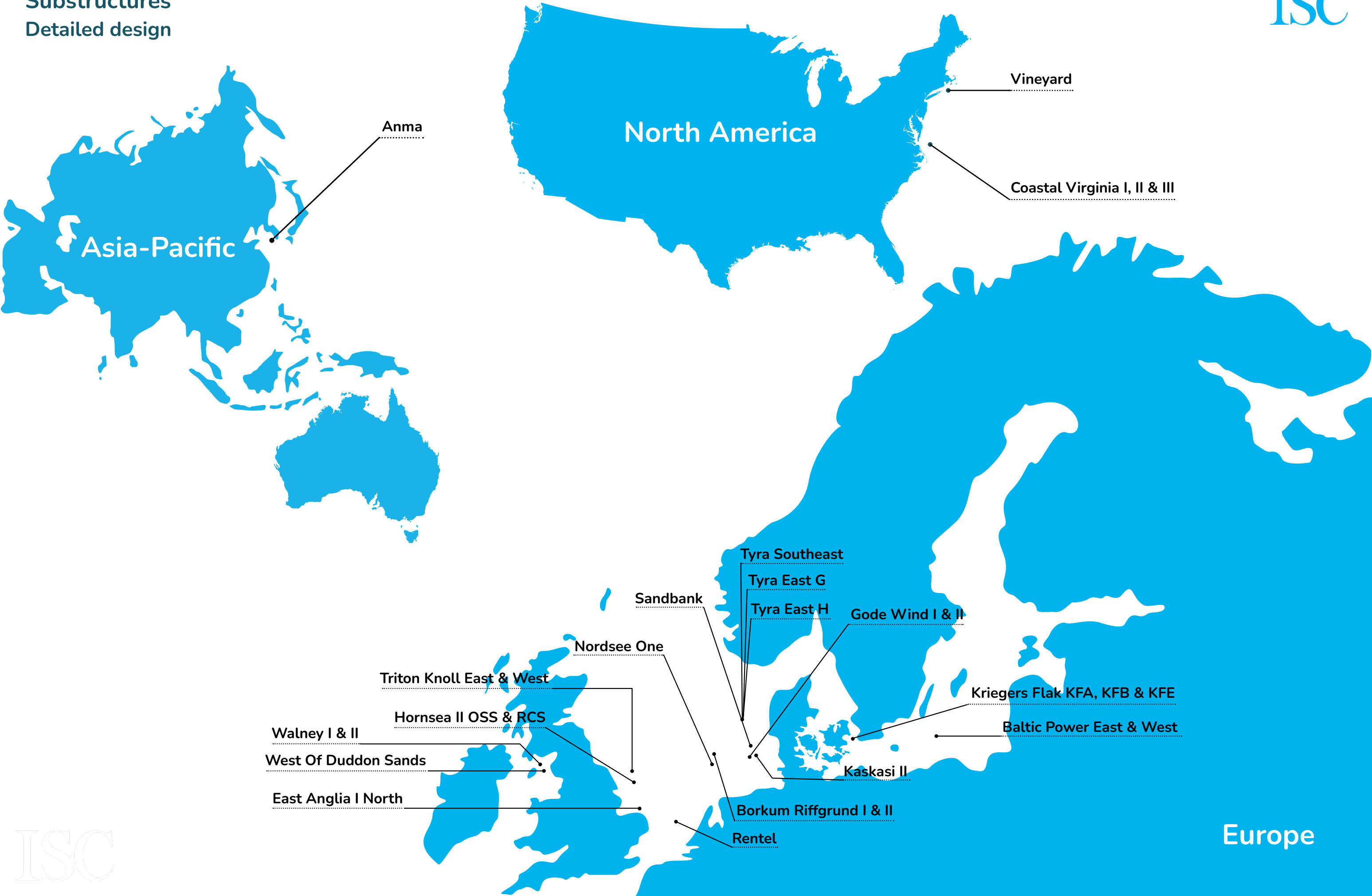


OFFSHORE SUBSTRUCTURES



ISC



Substructures

Detailed design



East Anglia I North

Topside Weight: 4,500 tonnes
Jacket Weight: 2,500 tonnes
Installation Year: Expected 2029
Water Depth: N/A
Substructure: Post-Piled Jacket
Owner: Iberdrola & ScottishPower
Location: UK North Sea



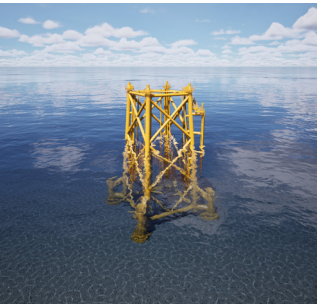
Baltic Power East & West

Topside Weight: 2,350 tonnes
Installation Year: 2025
Water Depth: 38 & 37 m
Substructure: Monopile, OD 9.1 m
Owner: Orlen & Northland Power
Location: Baltic Sea



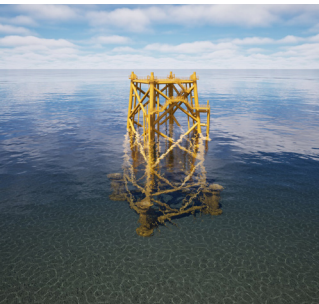
Tyra East H

Topside Weight: 4,500 tonnes
Jacket Weight: 3,800 tonnes
Installation Year: 2020
Water Depth: 43 m
Substructure: Post-Piled Jacket
Owner: Maersk Oil
Location: Danish North Sea



Borkum Riffgrund I & II

Topside Weight: 1,900 & 2,200 tonnes
Jacket Weight: 1,700 & 1,700 tonnes
Installation Year: 2013 & 2018
Water Depth: 24 & 27 m
Substructure: Post-Piled Jacket
Owner: Ørsted
Location: German Bight



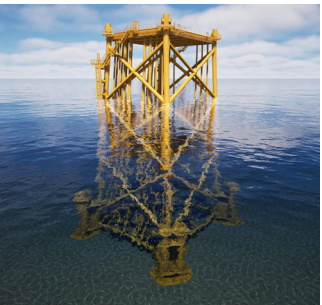
Nordsee One

Topside Weight: 1,900 tonnes
Jacket Weight: 1,400 tonnes
Installation Year: 2016
Water Depth: 28 m
Substructure: Post-Piled Jacket
Owner: RWE Innogy
Location: German Bight



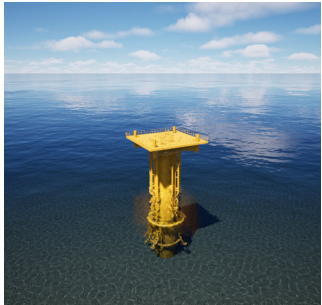
HVDC Jacket

Topside Weight: 35,000 tonnes
Jacket Weight: 13,000 tonnes
Project Year: N/A
Water Depth: N/A
Substructure: Post-Piled Jacket
Owner: N/A
Location: Germany



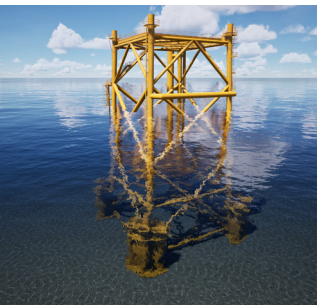
Mayflower

Topside Weight: 4,200 tonnes
Jacket Weight: 3,100 tonnes
Installation Year: 2024
Water Depth: N/A
Substructure: Post-Piled Jacket
Owner: Mayflower Wind
Location: US East Coast



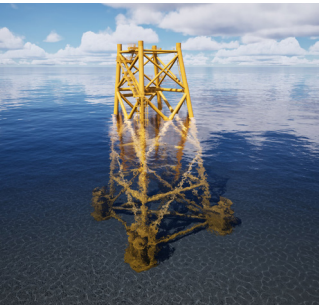
Triton Knoll East & West

Topside Weight: 1,140 & 1,140 tonnes
Installation Year: 2018
Water Depth: 16 & 16 m
Substructure: Monopile, OD 7.2 m
Owner: RWE
Location: UK North Sea



Dan FH

Topside Weight: 6,700 tonnes
Jacket Weight: 3,050 tonnes
Installation Year: N/A
Water Depth: 44 m
Substructure: Post-Piled Jacket
Owner: Maersk Oil
Location: Danish North Sea



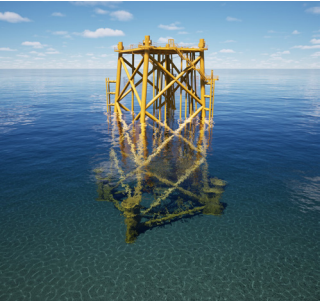
Tyra Southeast

Topside Weight: 1,500 tonnes
Jacket Weight: 2,100 tonnes
Installation Year: 2014
Water Depth: 39 m
Substructure: Post-Piled Jacket
Owner: Maersk Oil
Location: Danish North Sea



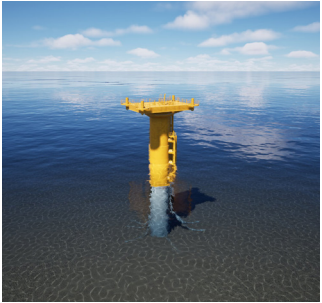
HVDC Jacket

Topside Weight: 35,000 tonnes
Jacket Weight: 15,000 tonnes
Project Year: N/A
Water Depth: N/A
Substructure: Jacket & Two Towers
Owner: N/A
Location: Germany



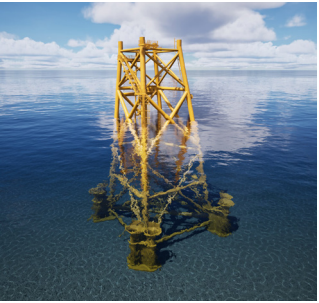
Vineyard

Topside Weight: 3,050 tonnes
Jacket Weight: 2,000 tonnes
Installation Year: 2023
Water Depth: 39 m
Substructure: Post-Piled Jacket
Owner: CIP & Iberdrola
Location: US East Coast



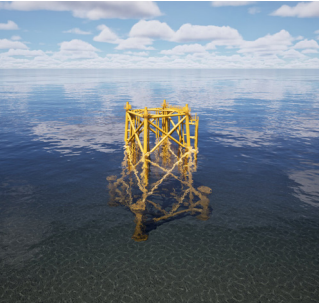
Kaskasi II

Topside Weight: 1,250 tonnes
Installation Year: 2022
Water Depth: 23 m
Substructure: Monopile, OD 6.5 m
Owner: RWE Innogy
Location: German Bight



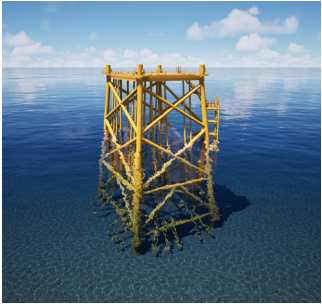
Adda

Topside Weight: 2,000 tonnes
Jacket Weight: 2,300 tonnes
Installation Year: N/A
Water Depth: 41 m
Substructure: Post-Piled Jacket
Owner: Maersk Oil
Location: Danish North Sea



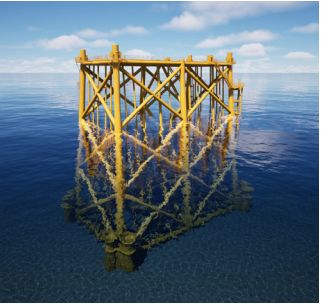
West of Duddon Sands

Topside Weight: 1,500 tonnes
Jacket Weight: 1,200 tonnes
Installation Year: 2013
Water Depth: 19 m
Substructure: Post-Piled Jacket
Owner: Dong Energy & ScottishPower
Location: UK Irish Sea



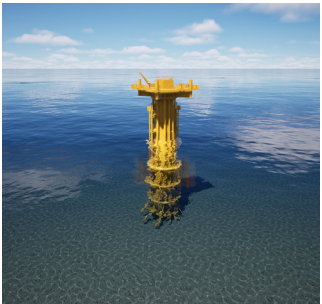
Coastal Virginia I, II & III

Topside Weight: 4,000 tonnes
Jacket Weight: 2,400 tonnes
Installation Year: 2025 & 2026
Water Depth: 27, 29 & 29 m
Substructure: Pre-Piled Jacket
Owner: Dominion Energy
Location: US East Coast



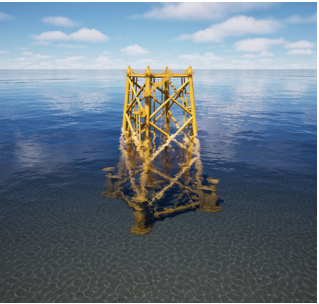
Hornsea II OSS & RCS

Topside Weight: 8,000 & 1,850 tonnes
Jacket Weight: 4,600 & 1,450 tonnes
Installation Year: 2021
Water Depth: 36 & 22 m
Substructure: Post-Piled Jacket
Owner: Ørsted
Location: UK North Sea



Rentel

Topside Weight: 800 tonnes
Installation Year: 2018
Water Depth: 31 m
Substructure: Monopile, OD 7.5 m
Owner: Otary Group
Location: Belgian North Sea



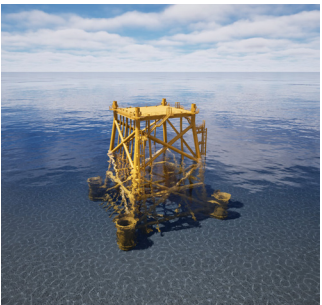
Sandbank

Topside Weight: 2,250 tonnes
Jacket Weight: 1,550 tonnes
Installation Year: 2016
Water Depth: 28 m
Substructure: Post-Piled Jacket
Owner: Vattenfall
Location: German Bight



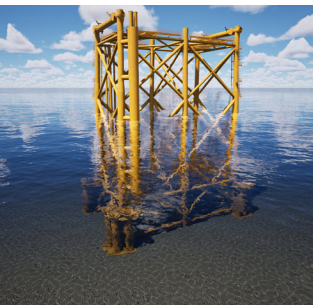
Walney I & II

Topside Weight: 1,000 & 1,000 tonnes
Jacket Weight: 950 & 950 tonnes
Installation Year: 2010 & 2011
Water Depth: 21 & 24 m
Substructure: Post-Piled Jacket
Owner: Dong Energy
Location: UK Irish Sea



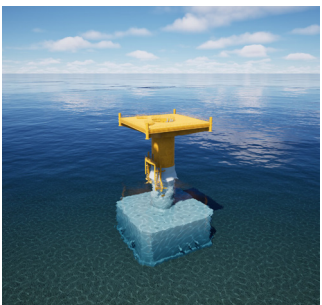
Anma

Topside Weight: 3,250 tonnes
Jacket Weight: 2,200 tonnes
Installation Year: Expected 2027
Water Depth: 20 m
Substructure: Post-Piled Jacket & 4-legged Jacket
Owner: Anma Offshore Wind Energy
Location: SouthWest of South Korea



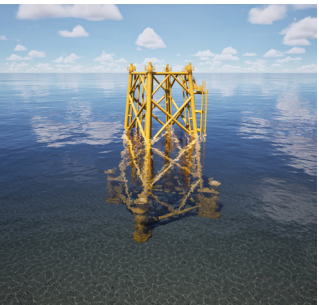
Tyra East G

Topside Weight: 14,500 tonnes
Jacket Weight: 6,200 tonnes
Installation Year: 2020
Water Depth: 43 m
Substructure: Post-Piled Jacket
Owner: Maersk Oil
Location: Danish North Sea



Kriegers Flak KFA, KFB & KFE

Topside Weight: 1,350, 1,650 & 700 tonnes
Installation Year: 2018
Water Depth: 20 & 16 m
Substructure: GBS Structure
Owner: Energinet
Location: Danish Baltic Sea



Gode Wind I & II

Topside Weight: 1,900 & 1,900 tonnes
Jacket Weight: 1,800 & 1,800 tonnes
Installation Year: 2015
Water Depth: 30 & 33 m
Substructure: Post-Piled Jacket
Owner: Ørsted
Location: German Baltic Sea

Every substructure design

ISC has been working in the offshore industry since 1975. Since then, we have designed every type of substructure, as seen in the illustrations below.

Our knowledge and experience have been gained through close collaboration with first movers within oil and gas in the North Sea and pioneers in offshore wind globally.

We designed the world's first offshore substation, and we are redeveloping the oil and gas sector to reduce emissions.

Today, we continue to push the boundaries of offshore energy globally and have projects all over the Northern Hemisphere and Australia.

Together with our clients, we continuously challenge conventional design and ways of thinking to create solutions that are reliable and cost-efficient.

We work directly with wind farm owners, oil field operators and EPC/EPCI contractors in the offshore energy business.

All disciplines in-house

ISC provides all engineering disciplines for substructures, and has decades-long partnerships with major players in the oil & gas industry and wind farm developers globally.

We have all disciplines in-house, which improves engineering through continuous cooperation and understanding of each other's interfaces.

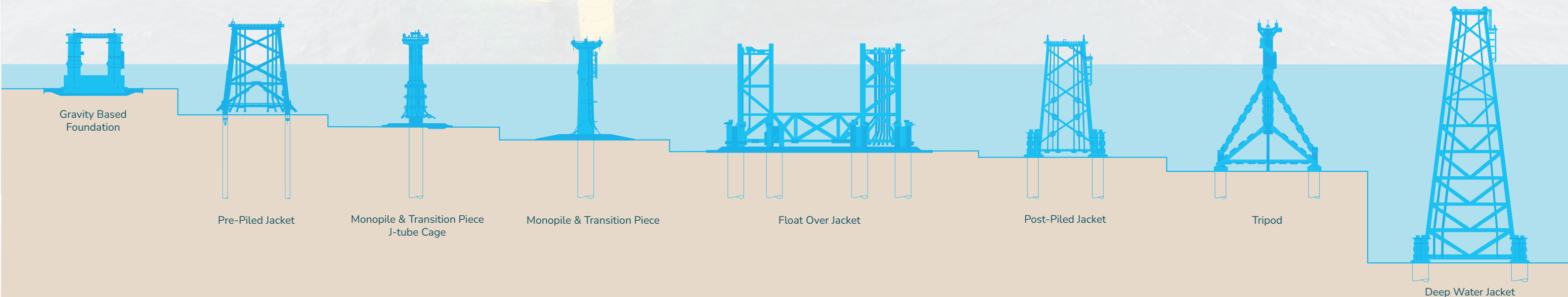
That's why we say with confidence that we develop engineering solutions suitable for fabrication, transportation, installation, operation, and decommissioning. Substructures that meet specific needs and are reliable and cost-efficient.

Our portfolio consists of detailed designs, and also includes offshore surveys, site supervision, assistance during the full project execution, numerous studies and new concept developments.

Since 1975

We started our offshore journey with the development and design of the first living quarters in the North Sea in 1975.

Since then, we have worked closely with major players in the oil and gas industry. Our work includes the redevelopment, maintenance and design of more than 50 substructures for oil and gas platforms and offshore substations.





ISC Consulting Engineers

We are an engineering company founded in 1967 and based in Denmark. ISC counts more than 250 employees in 2026.

ISC has been providing engineering services for offshore oil and wind projects for more than 50 years, with experience in more than 70 countries worldwide.

When developing an offshore substructure, every engineering decision creates consequences elsewhere. That's why our holistic approach is crucial to success. Nothing exists in isolation.

Great offshore structures are designed in cooperation with many stakeholders working together. We focus on bringing it all together.

Visit our website



www.isc.dk/en/services/renewable-energy

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☎ +45 22699058

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Substructures & Geotechnics

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☎ +45 40720800

Services

We provide independent engineering consultancy directly for wind farm owners, oil field operators and developers, and EPCI contractors.

Our services include

- Feasibility studies
- Concept studies
- FEED design
- Basic and detailed design
- Workshop drawings
- Offshore assistance
Experienced employees holding offshore certificates.

Engineering disciplines

At ISC, we have all the core engineering disciplines for offshore substructures in-house, enabling specialists to collaborate throughout the entire design process.

Our engineering disciplines include

- Structural (primary & secondary steel)
- Geotechnical & foundations
- Transport & installation engineering
- Hydrodynamics
- Mechanical & equipment
- Piping & layout
- Fabrication & constructability
- Fatigue & structural integrity
- Safety (ALARP)

Gravity Based
Foundation

Pre-Piled Jacket

Monopile & Transition
Piece J-tube Cage

Monopile & Transition Piece

Float Over Jacket

Post-Piled Jacket

Tripod

Deep Water Jacket