MOAB® AC Substation
for GLOBAL TECH 1 Wind Park
German North Sea

OFFSHORE ENGINEERING
KNOW-HOW
Welcome

At OVERDICK we are innovative and dynamic engineers. We are an international team, hungry for new challenges around the world. Our main strength is to find special purpose solutions that give our customers’ projects the cost saving potential desired.

OVERDICK’s focus is to apply modern engineering methods, to create practical and economical solutions to the complex challenges of our clients. This is possible with engineers who combine years of experience in design, fabrication and operations.

Overdick Design
- Offshore Oil & Gas
- Offshore Wind
- Naval Architecture

Overdick Services
- Marine Operations & Decommissioning
- Salvage & Wreck Removal
- Service Division
Offshore Wind

OVERDICK has experience in the design of various production, transport and installation assets for the exploitation of offshore wind energy, one of the biggest challenges in the years to come.

**Design**
- Concept
- Basic Design
- Detail Design
- Geotechnics
- Fabrication
- Follow-Up

**Type**
- Jacket Substations
- Self-elevating Substations
- Self-elevating HVDC Platforms
- Foundation Structures
- Platform Extensions / Annex / Bridges

**Reference Projects**

- **MOAB® Borwin beta**
  - German North Sea

- **MOAB® Helwin alpha**
  - German North Sea

- **MOAB® AC Substation for GLOBAL TECH 1 Wind Park**
  - German North Sea

- **Borkum West II Substation Platform**
  - German North Sea
OVERDICK is specialized in the planning and design of platforms for oil & gas fields “tailor-made” to project and client requirements. Our experience ranges from marginal field self-installing platforms to large processing and Living Quarter units.

**Design**
- Concept
- Basic Design
- Detail Design
- Geotechnics
- Fabrication
- Follow-Up

**Type**
- Jacket Platforms
- Gravity Base Platforms
- Self Elevating Platforms
- Mobile Production Units
- Platform Extensions / Annex / Bridges
- Storage

**Reference Projects**

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In the field of ship design, OVERDICK has specialized in the design of special-purpose vessels like Jack-Ups, DSVs, Tugs etc. Comprehensive naval architecture services are also offered from analysis to design, for new-builds and conversions alike.

### Design
- Concept
- Basic Design
- Detail Design
- Class Approval
- Documentation
- Fabrication Follow-Up

### Type
- Jack-up Units
- Special Purpose Vessels
- Barges
- Vessel Conversions

### Reference Projects
- DSV Bibby Sapphire Conversion
- NAVTUG 18
- Jack-Up Barge THOR
- "Pit Stop" Jack-up
- Multi-Role SAR Vessel
Marine Operations

OVERDICK’s platform designs are always developed with the focus on efficient and safe marine operations. The experience gained over the years and on previous projects is available to our clients for the engineering and management of their transport and installation projects.

What we can do:
- Transport & Installation
- Heavy-lift Engineering
- Installation Management
- Seafastening
- Moorings
- Load Outs
- Float Over
- Towage
- On-Site Services
- Procedures

Reference Projects

- Schwedeneck See
  - Baltic Sea
- Well Head Platform - Akcakoca
  - Black Sea
- BR-E Linking Bridges
  - Malaysia
- Mittelplate
  - North Sea
Salvage & Wreck Removal

OVERDICK’s strong naval and structural skills and experience are very useful for engineering ways to refloat stranded ships or in removing wrecks from difficult positions.

**What we can do:**
- Concept Engineering
- Structural Calculation
- Hydrostatic Analysis
- On-Site Services

**Reference Projects**

**M/V Fedra**
Shore of Gibraltar

**An Tai**
Malaysia

**Galapagos Explorer**
Panama
Service Division

OVERDICK know-how, analysis methods and tools are available to our clients also for detailed analysis or reviews of parts and components or as support of larger design efforts in co-operation with others.

What we can do:

- Structural Assessments
- Fatigue Life Extension Calculations
- Floating Motion Analysis
- Mooring Analysis
- Inclining Tests
- Collisions and Collapse Analysis
- Scour Protection
- Pile Drivability Analysis
- Bollard Pull Analysis
- Specific Site Assessment
- Inplace Analysis
- Etc…

Motion Analysis

Tripod Handling Tools

Mooring Analysis

Collision Analysis

BR-D Riser Guard

Lifting Analysis
Offshore Engineers
Naval Architects

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