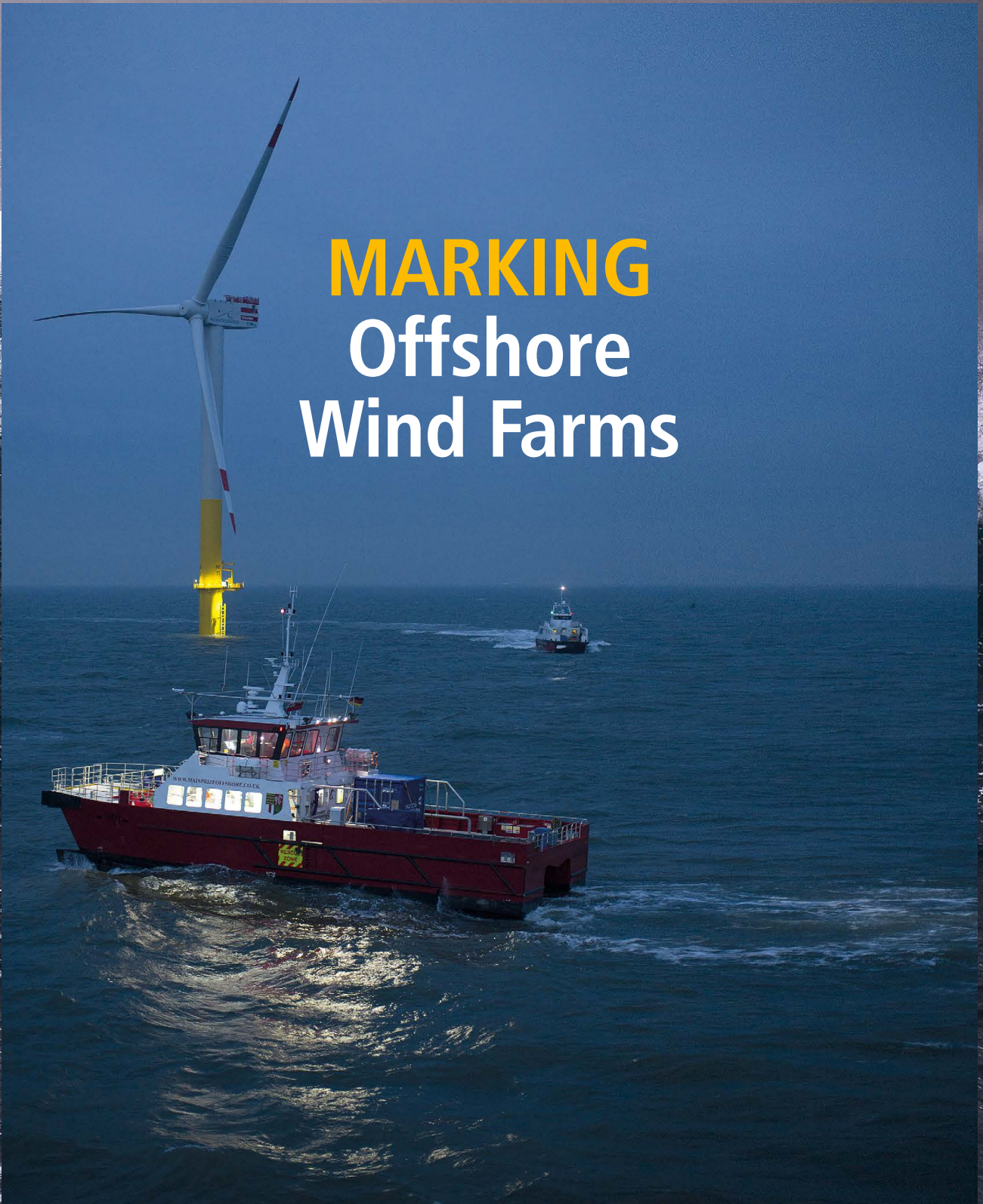




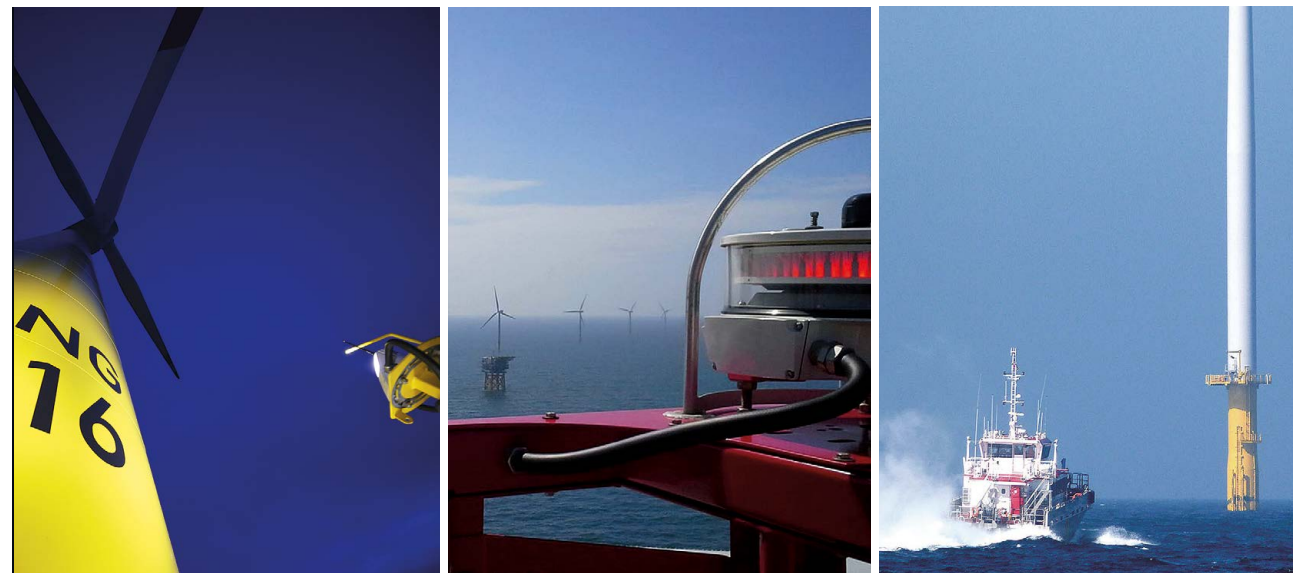
SABIK OFFSHORE

MARK IT · LIGHT IT · KEEP IT SAFE

MARKING Offshore Wind Farms



ABOUT SABIK



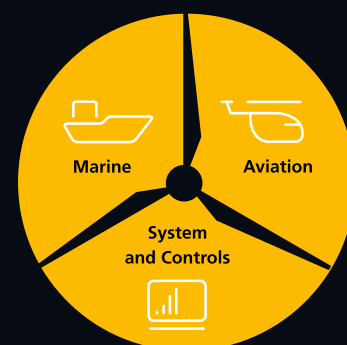
For over 20 years, Sabik Offshore has been responsible for improving safety, enhancing protection, giving warning and providing reliable orientation in the harshest offshore environments.

YOUR EXPERT IN MARKING OFFSHORE WIND FARMS

We provide complete aids to navigation, ID marking, work light and aviation obstruction lighting solutions to the offshore wind industry. At Sabik Offshore we have dedicated ourselves to designing products and systems specifically for use in offshore wind farms. We've taken extra care to develop components that are easy to handle, easy to install and easy to commission.

We are constantly pushing the envelope to provide innovative and effective solutions. Our new product line "SeaMark" proves this with simplified installation, more connectivity and ease of system design.

Our NAI bus system allows for easier engineering design and planning, commissioning and ease of use through intuitive user interfaces. Sabik Offshore's products have been installed on 2500 structures on 48 wind farms in Europe and abroad including: Germany, UK, Belgium, Denmark, Netherlands, Taiwan and the United States of America. We are proud to be a trusted partner to our customers. From design through to the implementation of detailed specifications, customers rely on us to apply our expert knowledge to the most stringent standards in the world.

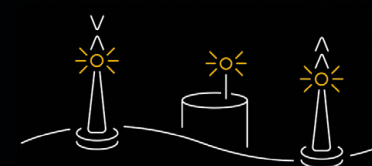


WHAT WE DO



- ✓ Sabik Offshore understands global & local requirements. This combined with our experience and best practices has made us a trusted advisor to our customers.
- ✓ We provide full project lifecycle solutions of navigational safety in a wind farm from temporary to permanent lighting, retrofit and decommissioning solutions.
- ✓ We hold ourselves to the highest quality standards and strive to add value in every interaction with our customers.

TEMPORARY MARKING



Simple solutions for temporary marking of offshore structures in the construction phase with self-contained marine lanterns and integrated remote monitoring.

PERMANENT MARKING



Fully integrated solutions for marking permanent offshore structures with navigation lights, aviation obstruction lights, ID marking and fog signal solutions.

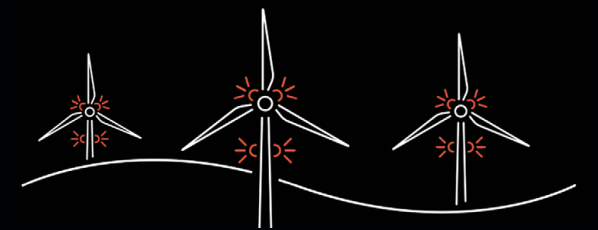
SERVICE & SUPPORT



Completely supported operations and maintenance with project specific engineering for new build and retrofitting, system monitoring and training for offshore technicians.



AIDS TO NAVIGATION



AVIATION LIGHTING



SeaMark Product Range
SeaMark offers unparalleled lifetime value for the effective marking of offshore renewable energy structures. Simplified electrical and mechanical interfaces, advanced monitoring and control features and optional integrated battery backup makes SeaMark the next generation of marking systems.

Marine Navigation Lantern

Visibility Meter

Work Light

SK20

Fog Signal


Boat Landing Light

ID Marking Sign

The basic building block for an offshore wind farm is the IALA 0-139 recommendation for marking offshore wind farms. This combined with more than 20 supporting IALA guidelines and recommendations, international standards and expert knowledge allows us to provide solutions for all regions around the world.

With standard mechanical and electrical interfaces, the NAI system provides the most flexible marking solution for individual wind farm needs.

Directional Fog Signal
Fog signals provide audible aids to navigation when visibility is poor. Sabik Offshore's new fog signal reduces installation and maintenance effort as well as battery backup with its dramatical reduction in weight and power consumption. Directional outputs result in a reduction in noise pollution allowing for optimised placement and positioning on offshore structures.



Medium Intensity Obstruction Light

Helicopter Hoist Status Light

Visibility Meter

Helicopter Corridor Floodlight

Tower Lights

Our products are tailored to comply with ICAO, FAA, CAA, AVV or STAC depending on the region of application. In addition to low, medium and high intensity lights we supply search and rescue, heli hoist and helicopter corridor solutions.

The aviation system is seamlessly integrated with the marine navigation system providing a single user interface for monitoring and control.

MARKING CONCEPT EXAMPLE

This example is based on **IALA** and **ICAO** recommendations. Our "Marking Guide" on our website provides more detailed information about individual country requirements. Consult your Sabik Offshore representative for more details regarding your specific project.

IPS INTERMEDIATE PERIPHERAL STRUCTURE

MARINE NAVIGATION

- 2 NM Lantern
- ID Marking
- Fog Signal
- Boat Landing Light

AVIATION OBSTRUCTION LIGHTING

- Medium Intensity Obstruction Lights
- Low Intensity Tower Lights
- Heli-Hoist Lights
- SAR Lights

SPS SIGNIFICANT PERIPHERAL STRUCTURE

MARINE NAVIGATION

- 5NM Lantern
- ID Marking
- Fog Signal
- Boat Landing Light
- Automatic Identification System (AIS)

AVIATION OBSTRUCTION LIGHTING

- Medium Intensity Obstruction Lights
- Low Intensity Tower Lights
- Heli-Hoist Lights
- SAR Lights

PS PERIPHERAL STRUCTURE

MARINE NAVIGATION

- ID Marking
- Boat Landing Light

AVIATION OBSTRUCTION LIGHTING

- Medium Intensity Obstruction Lights
- Low Intensity Tower Lights
- Heli-Hoist Lights
- SAR Lights

OSS OFFSHORE SUBSTATION

MARINE NAVIGATION

- ID Marking
- Boat Landing Light

AVIATION OBSTRUCTION LIGHTING

- Medium/Low Intensity Lights

IS INNER STRUCTURE

MARINE NAVIGATION

- ID Marking
- Boat Landing Light

AVIATION OBSTRUCTION LIGHTING

- Heli-Hoist Lights
- SAR Lights



AIDS TO NAVIGATION



5 NM Marine Lantern



ID Marking Sign and Floodlight



Directional Fog Signal



Automatic Identification System (AIS)



Boat Landing Light



ID Marking Floodlight



Self-contained LED Lantern



AVIATION LIGHTING



Medium Intensity Obstruction Light



Low Intensity Tower Light



Heli Hoist SAR Combi Light



SAR Light



Helicopter Corridor Light



SYSTEM & CONTROLS



NAI Controller

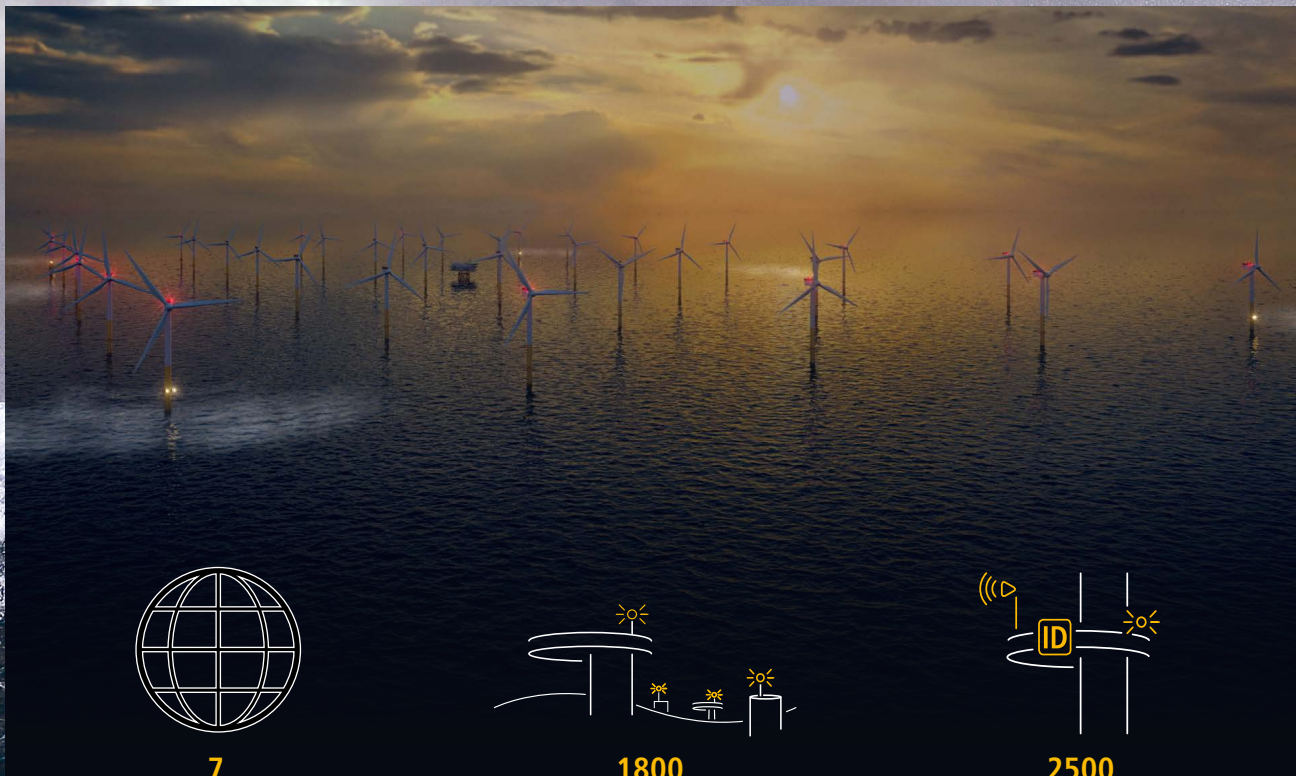


ParkMaster™



Visibility Meter

EXPERIENCE



7

COUNTRIES



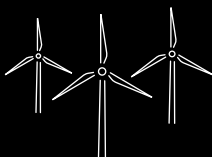
1800

TEMPORARY LANTERNS



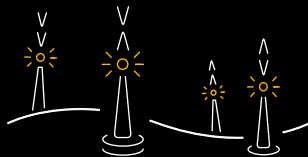
2500

TURBINES PROTECTED



48

PROJECTS



40

BUOYS IN OPERATION



For more detailed information
about our experience visit the
reference page on our website

www.sabik-offshore.com

GERMANY

SABIK Offshore GmbH
Wilhelm-Maybach-Straße 3
19061 Schwerin - Germany
Phone +49 385 6767 0000

UNITED KINGDOM

SABIK Offshore Ltd.
45 Frederick Street Edinburgh
EH2 1EP United Kingdom
Phone +44 7733 315 178

DENMARK

SABIK Offshore ApS
Ejby Industrivej 91 B
2600 Glostrup - Denmark
Phone +45 8877 4400