ABOUT SABIK

With over three decades of experience in Aids to Navigation, Sabik Offshore has a strong legacy of providing LED visual aids to navigation with low energy for some of the harshest environments around the world.

SAFETY IS OUR PRIORITY
Sabik Offshore specialises in providing marine aids to navigation, aviation obstruction lighting and ID marking solutions for offshore renewable structures. Our NAi (Navigational Aids interface) product range offers innovative marking solutions for all offshore renewable projects, protecting your investment from the very start.

We are constantly pushing the envelope to provide innovative and effective solutions. Our NAi product line allows for easier engineering design and planning, trouble free installation and commissioning and ease of use through intuitive user interfaces.

Sabik Offshore’s products have been installed on over 2000 structures on more than 40 wind farms in Germany, UK, Belgium, Denmark, Netherlands and Taiwan. We are proud to be a trusted partner to our customers. From design through to the implementation of detailed specifications, our customers rely on us to apply our expert knowledge to the most stringent standards in the world.

WHAT WE DO

- Simple solutions for temporary marking of offshore structures in the construction phase with self-contained marine lanterns and integrated remote monitoring.
- Fully integrated solutions for marking permanent offshore structures with navigation lights, aviation obstruction lights, ID marking and fog signal solutions.
- Completely supported operations and maintenance with project specific engineering for new build and retrofitting, system monitoring and training for offshore technicians.

Sabik Offshore offers German engineered systems to effectively mark offshore wind farms as obstructions, preventing collisions at sea.

Full lifecycle solutions cover all aspects of navigational safety - from temporary to permanent lighting, retrofit and decommissioning.

Our international team specialises in meeting the strictest industry standards, delivering an easy and confident buying process.
**NEW FOGLIGHT**

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.

**NEW ID SIGN FLOODLIGHT**

ID signage provides clear identification of individual turbines in all weather conditions. Sabik Offshore’s new ruggedised single LED solution illuminates the sign board with a high degree of uniformity and minimal light pollution reducing complexity, power consumption and cost.

**NEW FOG SIGNAL**

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 certified 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.

**AVIATION OBSTRUCTION LIGHTING**

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.
This visual representation shows many possibilities for marking an offshore wind farm. Each park will be designed based on specific country regulations. Please consult your Sabik Offshore representative for more details regarding your specific project.

**GENERAL OVERVIEW**

**SPS** SIGNIFICANT PERIPHERAL STRUCTURE
- **MARINE NAVIGATION**
  - SNM Lantern
  - ID Marking
  - Fog Signal
  - Boat Landing Light
- **AVIATION OBSTRUCTION LIGHTING**
  - Medium Intensity Obstruction Lights
  - Low Intensity Tower Lights
  - Heli-Hoist Lights
  - SAR Lights

**IPS** INTERMEDIATE PERIPHERAL STRUCTURE
- **MARINE NAVIGATION**
  - 2 NM Lantern
  - ID Marking
  - Boat Landing Light
- **AVIATION OBSTRUCTION LIGHTING**
  - Medium Intensity Obstruction Lights
  - Low Intensity Tower Lights
  - Heli-Hoist Lights
  - Boat Landing Light

**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
  - Helicopter Corridor Lights

**IS** INNER STRUCTURE
- **MARINE NAVIGATION**
  - ID Marking
  - Boat Landing Light
- **AVIATION OBSTRUCTION LIGHTING**
  - Medium/Low Intensity Obstruction Lights
  - Low Intensity Tower Lights
  - Heli-Hoist Lights
  - SAR Lights
  - Helicopter Corridor Lights

**OSS** OFFSHORE SUBSTATION
- **MARINE NAVIGATION**
  - ID Marking
  - Boat Landing Light
  - Automatic Identification System (AIS)
- **AVIATION OBSTRUCTION LIGHTING**
  - Medium/Low Intensity Lights

**ADLS** WARNING ZONE
- The Aircraft Detection Lighting System uses a radar to scan the area around a wind farm for aircraft. At night red obstruction lights can be turned off until an aircraft has entered a predefined area. The wind farm will be visibly marked as an obstruction as the aircraft is tracked through the detection zone. Once the aircraft leaves the area the lights are turned off again. Initial studies have shown that lights are off an average of 96% of the time.

**CONSTRUCTION PHASE**
Sabik Offshore provides full temporary marking solutions for an offshore wind construction project. Our solutions include lit and monitored cardinal buoys to clearly mark the construction site as well as self-contained lanterns to protect foundations and transition pieces before the permanent AtoN are installed and powered.

**HELICOPTER CORRIDOR**
A corridor of illuminated turbine towers provides a safe and defined passage for helicopter pilots to access a helipad within an offshore wind farm. Designed to satisfy the most stringent technical requirements as well as allowing for remote control as a native NAI device, the Sabik ALS-500 NAI provides safety without sacrificing simplicity.