

Agenda

- 1. About Sabik Offshore
- 2. Guidelines & Regulations
- 3. Marine Marking
- 4. Safety Lighting
- **5. Obstruction Lights**
- **6. Systems and Controls**
- 7. Further Resources





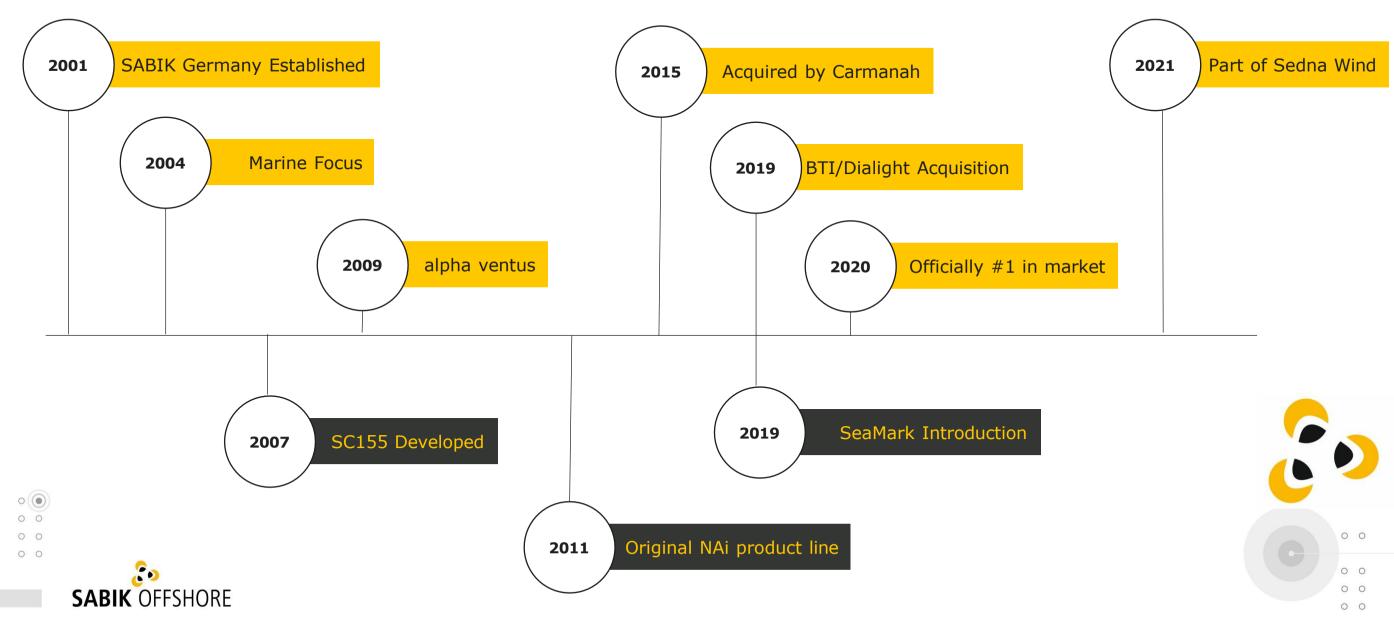


About Sabik Offshore



Where did we come from?



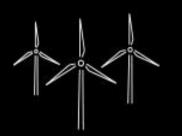


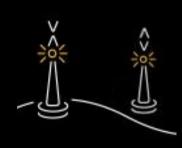
Sabik Offshore's Experience













12 Countries **2000 Temporary Lanterns**

88
Projects

54
Buoys in Operation

4532
Turbines Protected



What We Do

Services

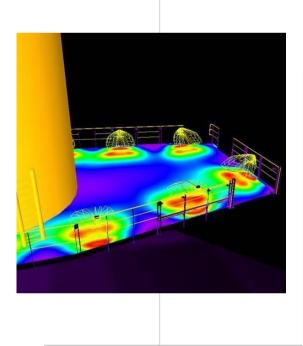
- Marking Concept Assistance
- Engineering Documentation
- Simulations

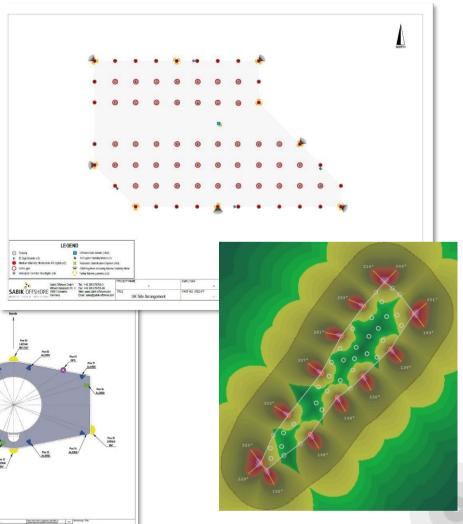
Products

- Aids to Navigation
- ID Marking
- Platform Illumination
- Obstruction Lighting
- UPS
- Systems and Controls









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Memberships and Associations

- APQP for Wind
- IALA Industrial Member
- Regional Trade Organisations:
 - Wind Europe
 - Renewable UK
 - Business Network for Offshore Wind (USA)







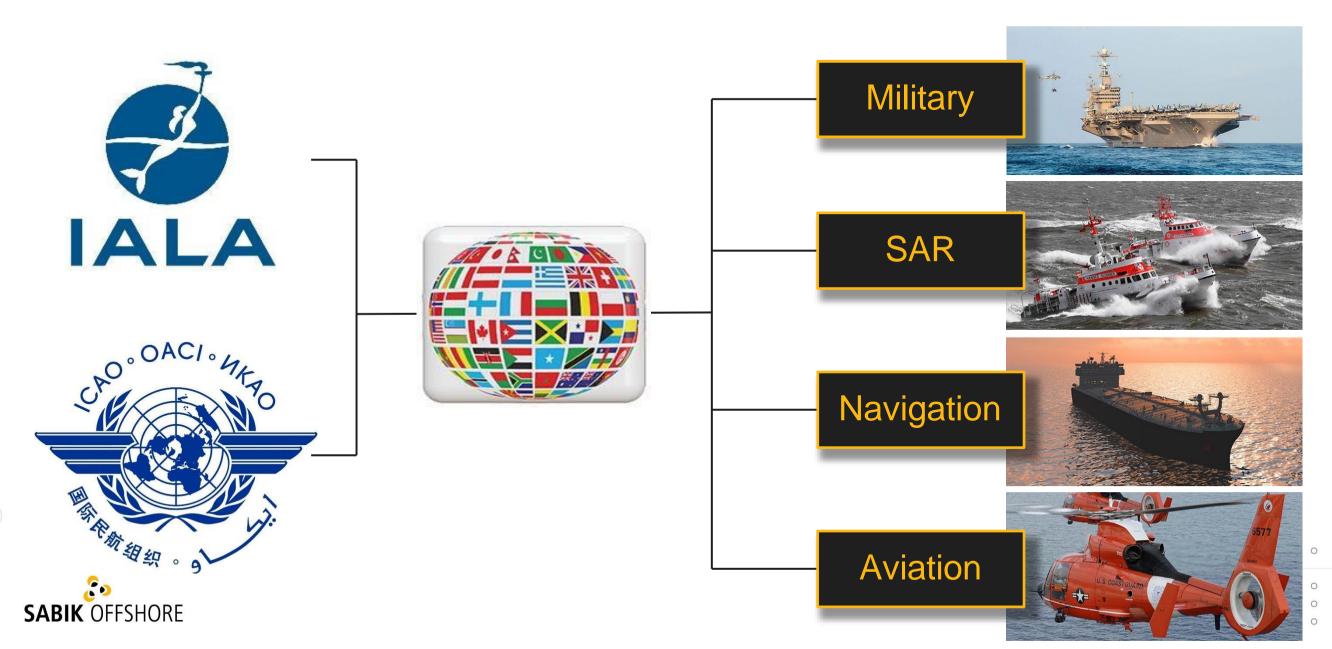




Guidelines & Regulations



Guidelines & Regulations



Example: UK











- MGN 654 Safety of Navigation: Offshore Renewable Energy Installations
- MGN 372 Offshore Renewable Energy Installations (OREIs): Guidance to Mariners Operating in the Vicinity of UK OREIs
- CAP 764 CAA Policy and Guidelines on Wind Turbines
- CAP 437 Standards for Offshore Helicopter Landing Areas
- IALA 20+ Guidelines and Recommendations
- RUK Best Practices and Guidance

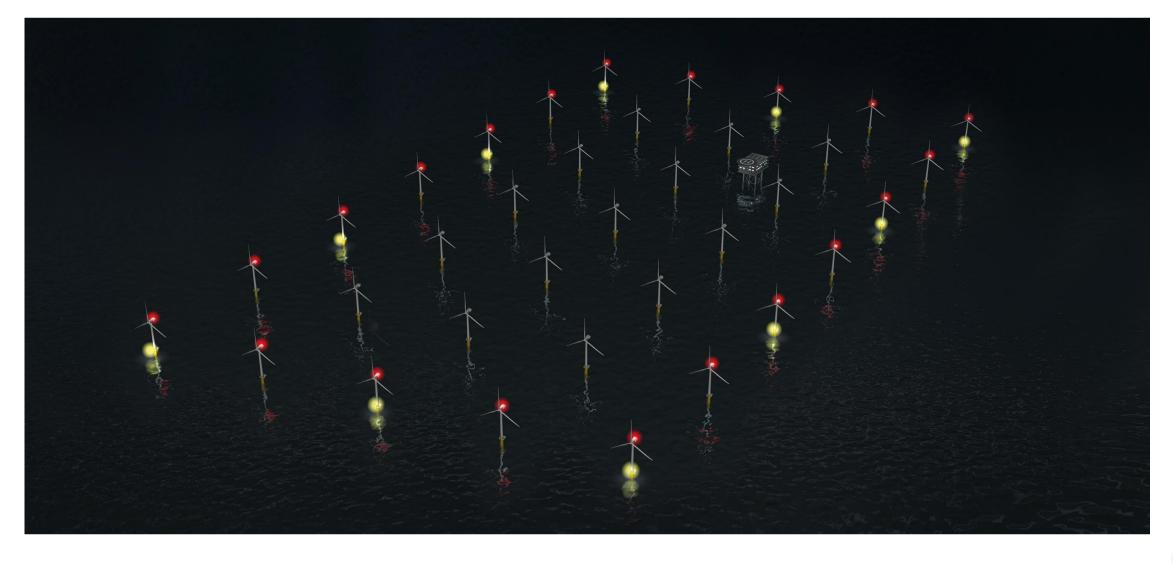






Example: UK











Marine Marking



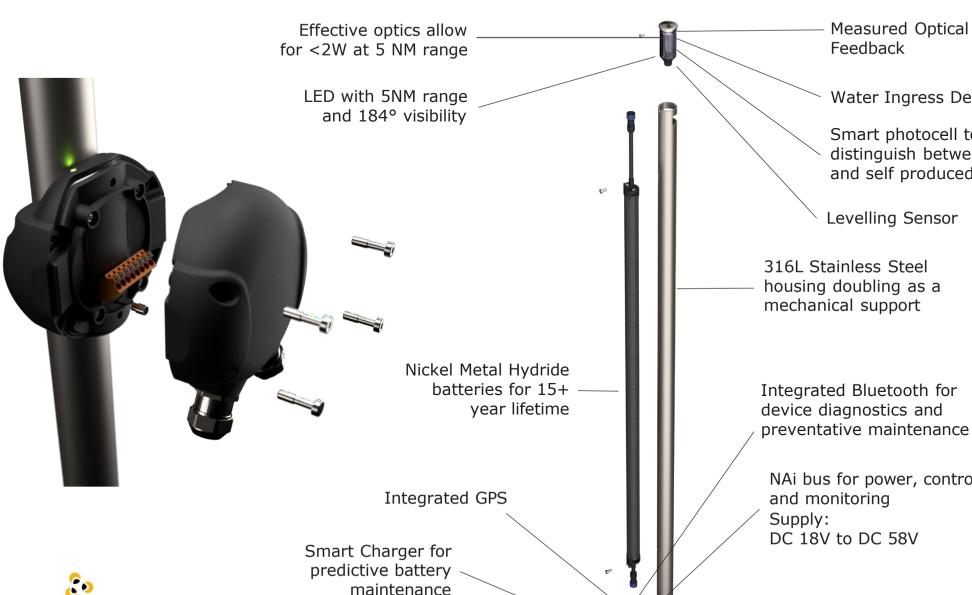
SeaMark | Marine Lantern

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SABIK OFFSHORE





Water Ingress Detection Smart photocell to distinguish between ambient and self produced light Levelling Sensor

NAi bus for power, control





Marine Products

- Marine Lantern
- Fog Signal
 - Visibility Meter
 - MRASS
- ID Sign Light
- AIS





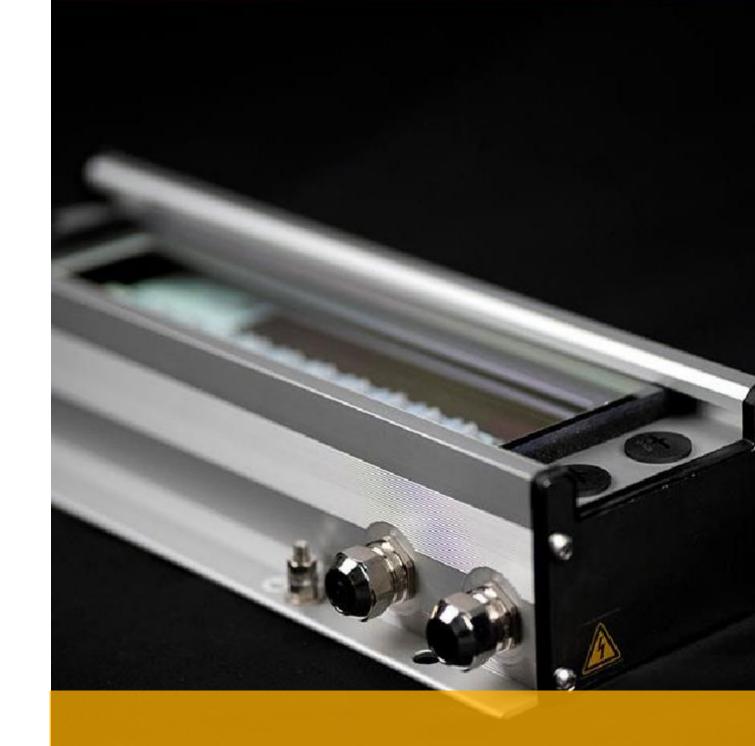








Safety Lighting



The New LA40

Redesign from LA70

Better Output/Smaller Product
Fit for Purpose
Easier installation
Low Maintenance
Higher Standards
Rigorous testing









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Safety Light Products

- Work Light
- Boat Landing Lights
- Heli Corridor Lights
- Surface Illumination







Obstruction Lights



Orga Obstruction Lights

L550 Range

- Lightweight and easy to install
- Certified to UK CAP, FAA, STAC, AVV and many others
- Heli Hoist, SAR, Medium Intensity
- DC 48 V and AC 230 V





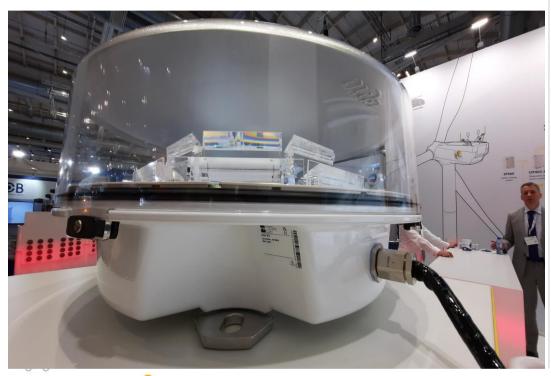


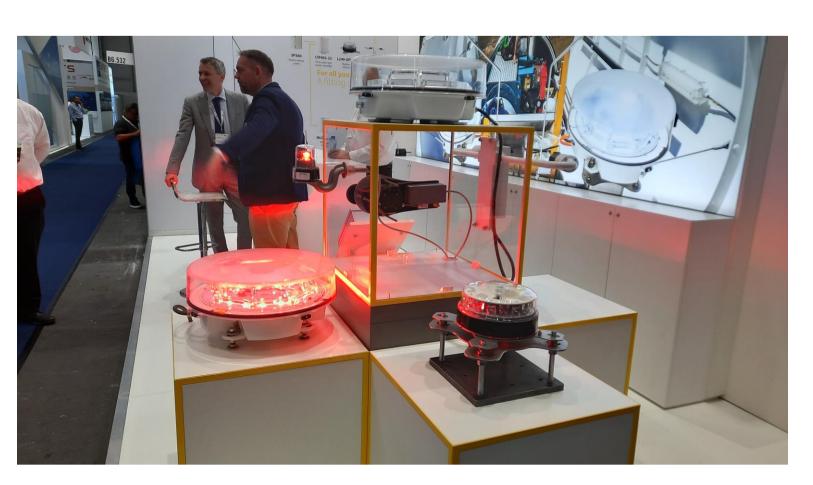


Orga Obstruction Lights

At WindEnergy Hamburg 2022

 Medium and Low Intensity Lights



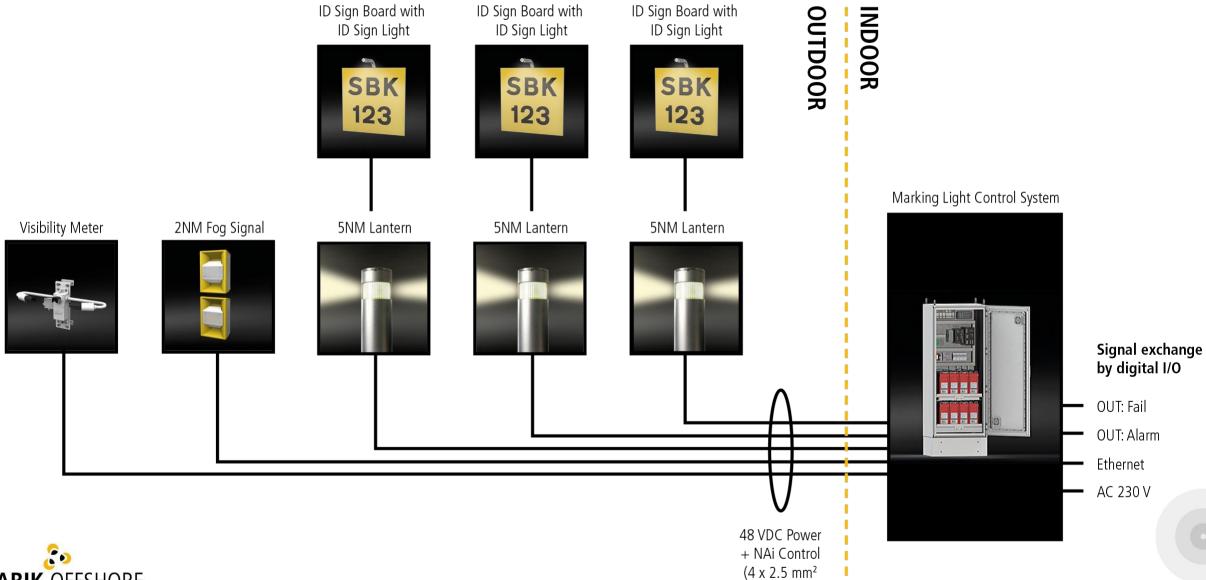




Systems and Controls



The NAi System







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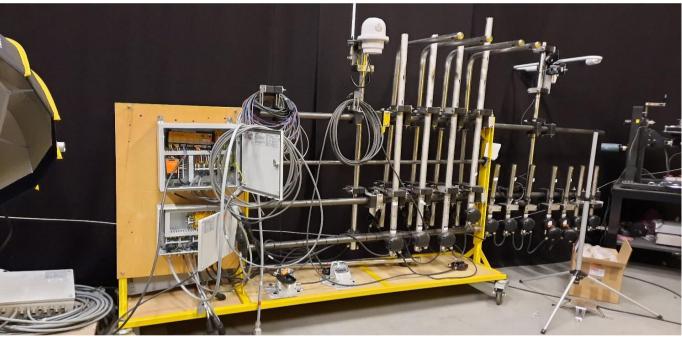
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The NAi System





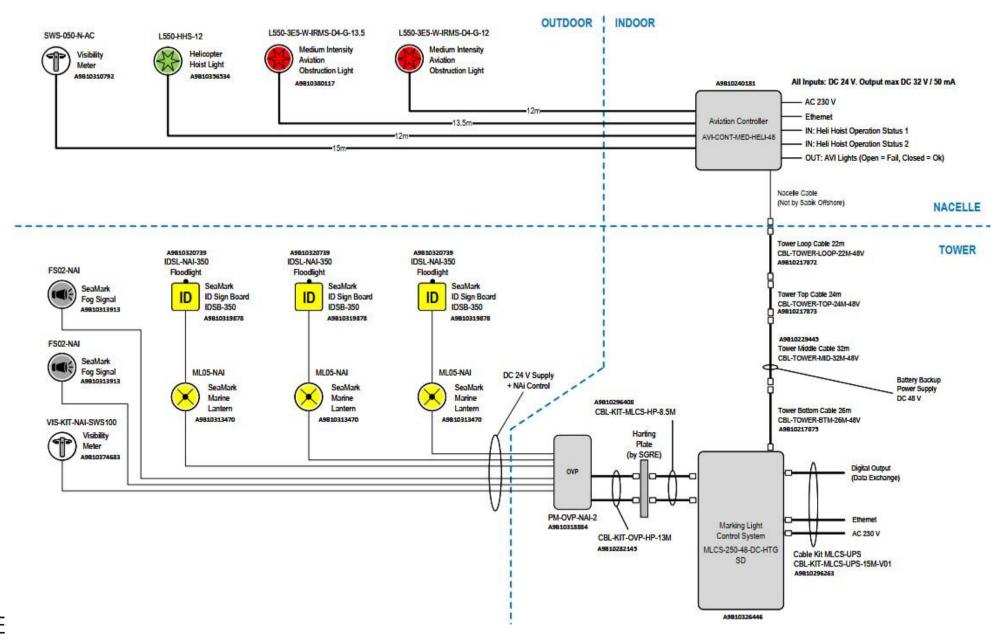








SGRE Architecture





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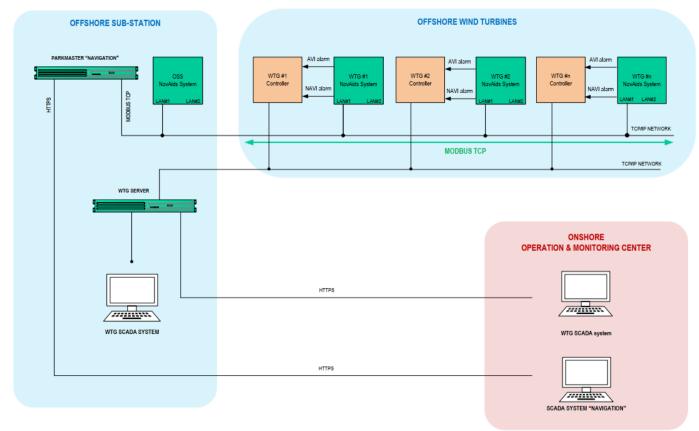




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SCADA



Note: Network system may require additional third-party components such as switches, firewalls, etc. not included in our proposal.



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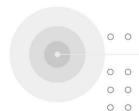
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Further Resources



YouTube Channel









Sabik Offshore YouTube Channel

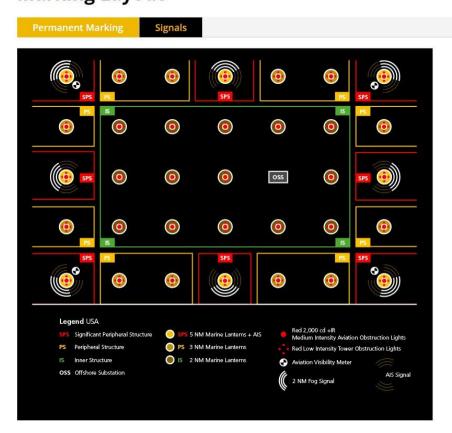






Marking Guide

Marking Layout



Permanent Marking Standart

Layout according to current FAA and US Coast Guard District 1 requirements.



Marine Lanterns

SABIK Offshore marine lanterns achieve ranges from 2 to 10 nautical miles exhibiting the special mark characteristic flash patterns with ultra-low power consumption. The robust design and maintenance-free LEDs provide a long service life.



Downloads

- Generally Accepted Specification for Marine Lanterns
- Marine Lantern
- LED 160 NAI GPS

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SABIK OFFSHORE

guide.sabik-offshore.com



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USPs

- Experience
- International Reach with Local Expertise
- Product Compliance, Quality and Assurance
- Fully integrated systems specifically for Offshore Wind
- Lower Overall Life Cycle Cost







