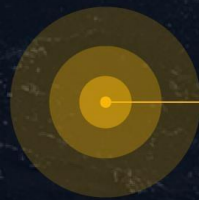
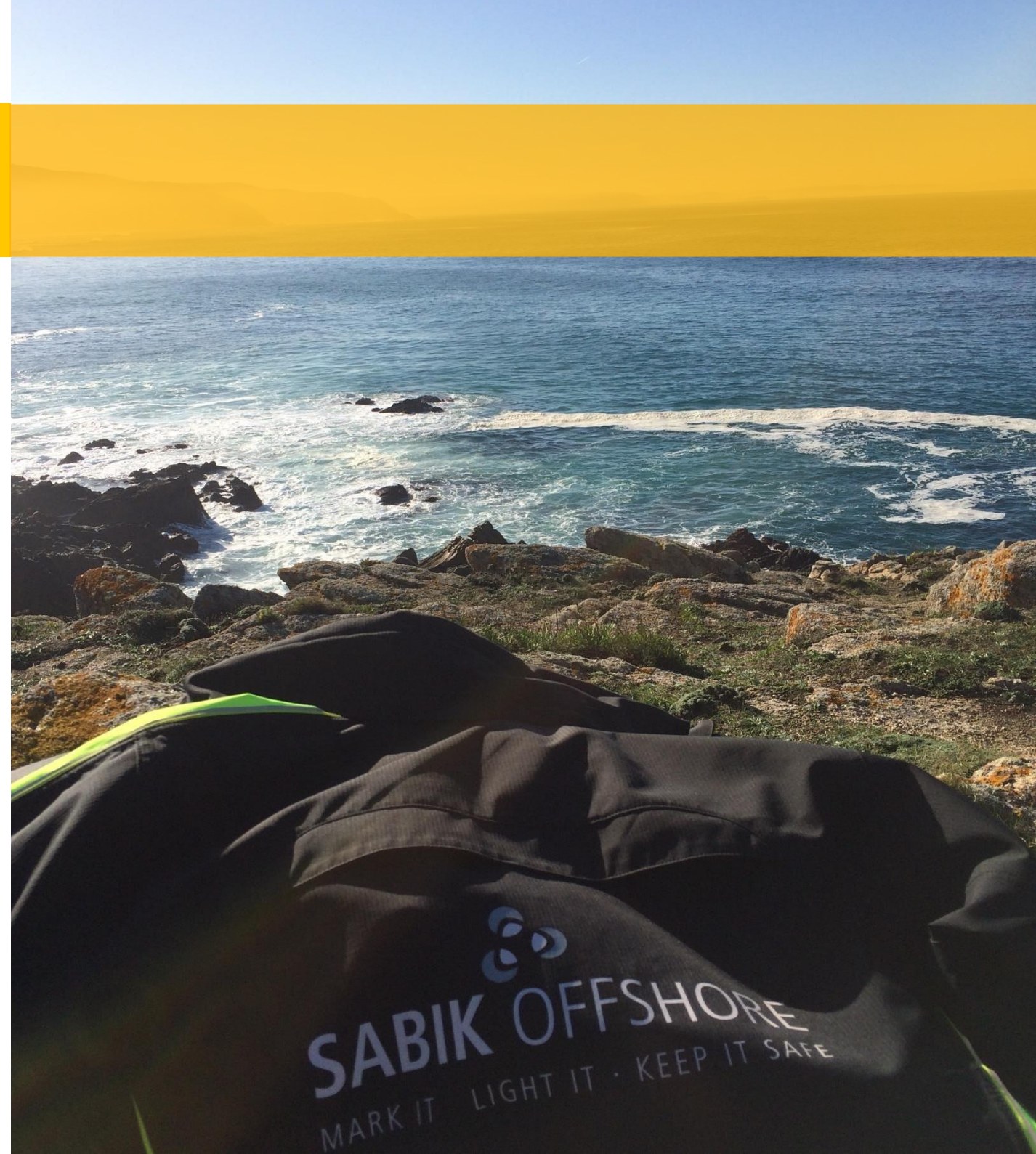


Mainstream RP Intro October 2022



Agenda

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

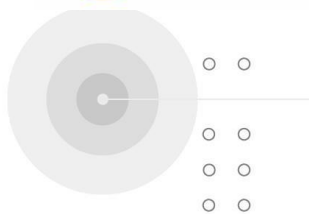
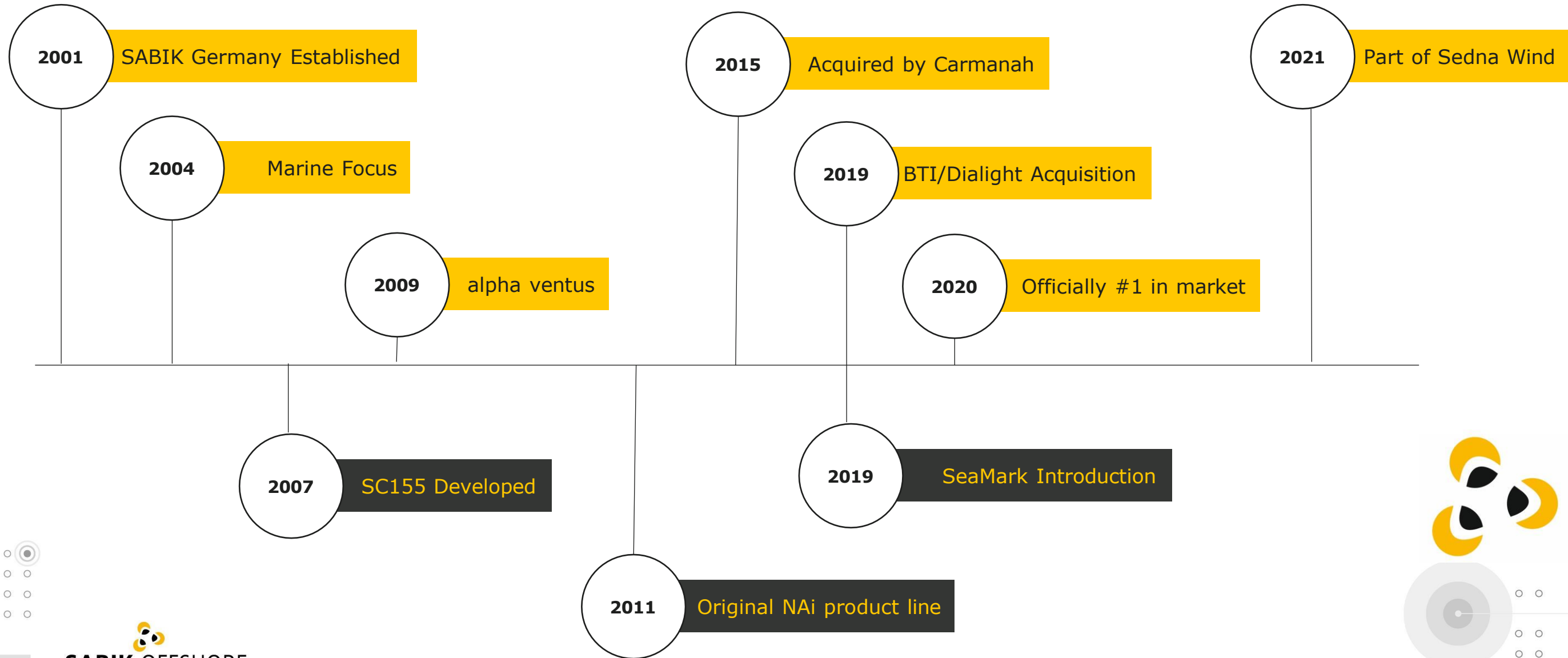


SECTION 1

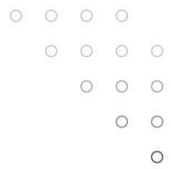
About Sabik Offshore



Where did we come from?



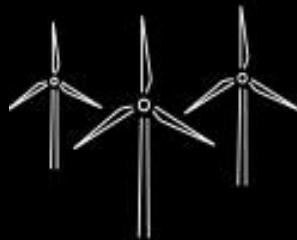
Sabik Offshore's Experience



12
Countries



2000
Temporary Lanterns



88
Projects



54
Buoys in Operation



4532
Turbines Protected



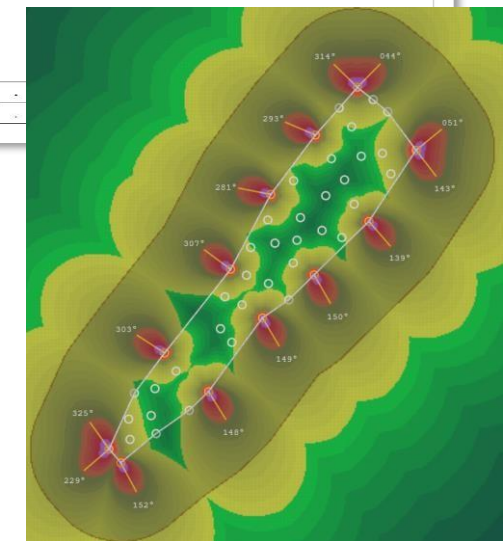
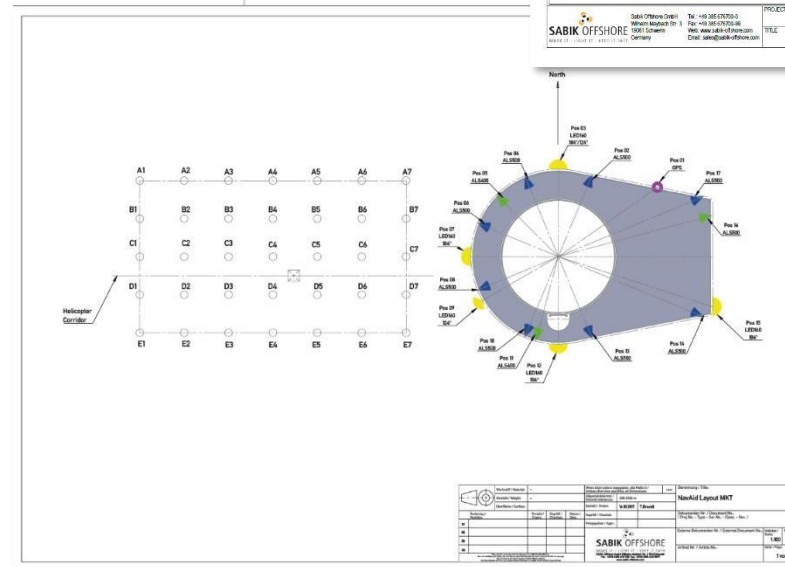
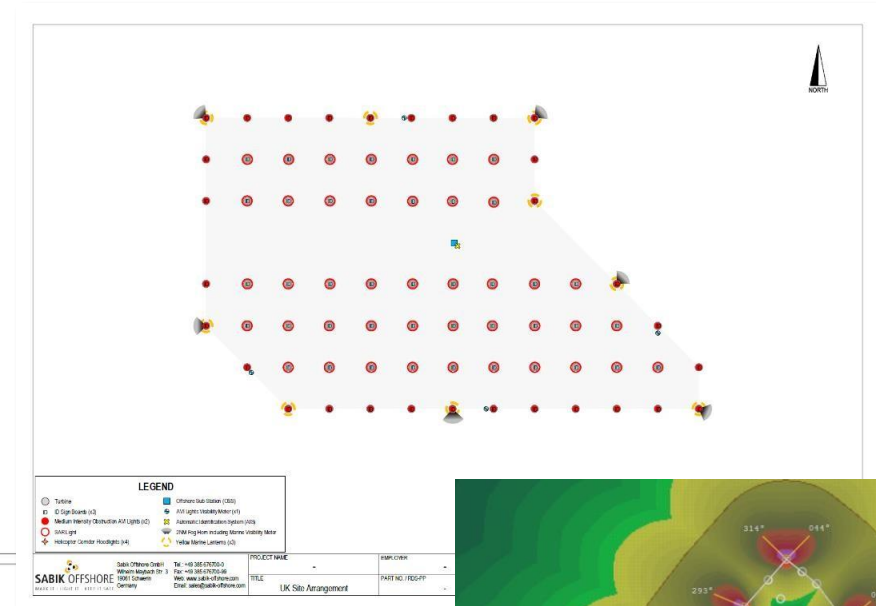
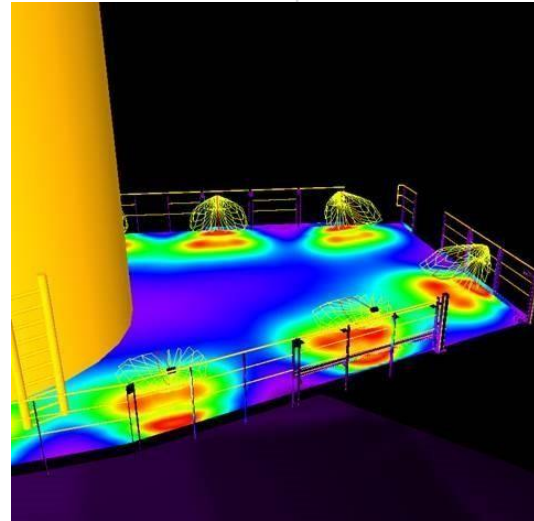
What We Do

Services

- Marking Concept Assistance
- Engineering Documentation
- Simulations

Products

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



Memberships and Associations

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

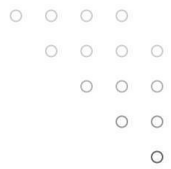


SECTION 2

Guidelines & Regulations



Guidelines & Regulations



Military



SAR



Navigation



Aviation



Example: UK



Trinity House

Serving the mariner since 1514

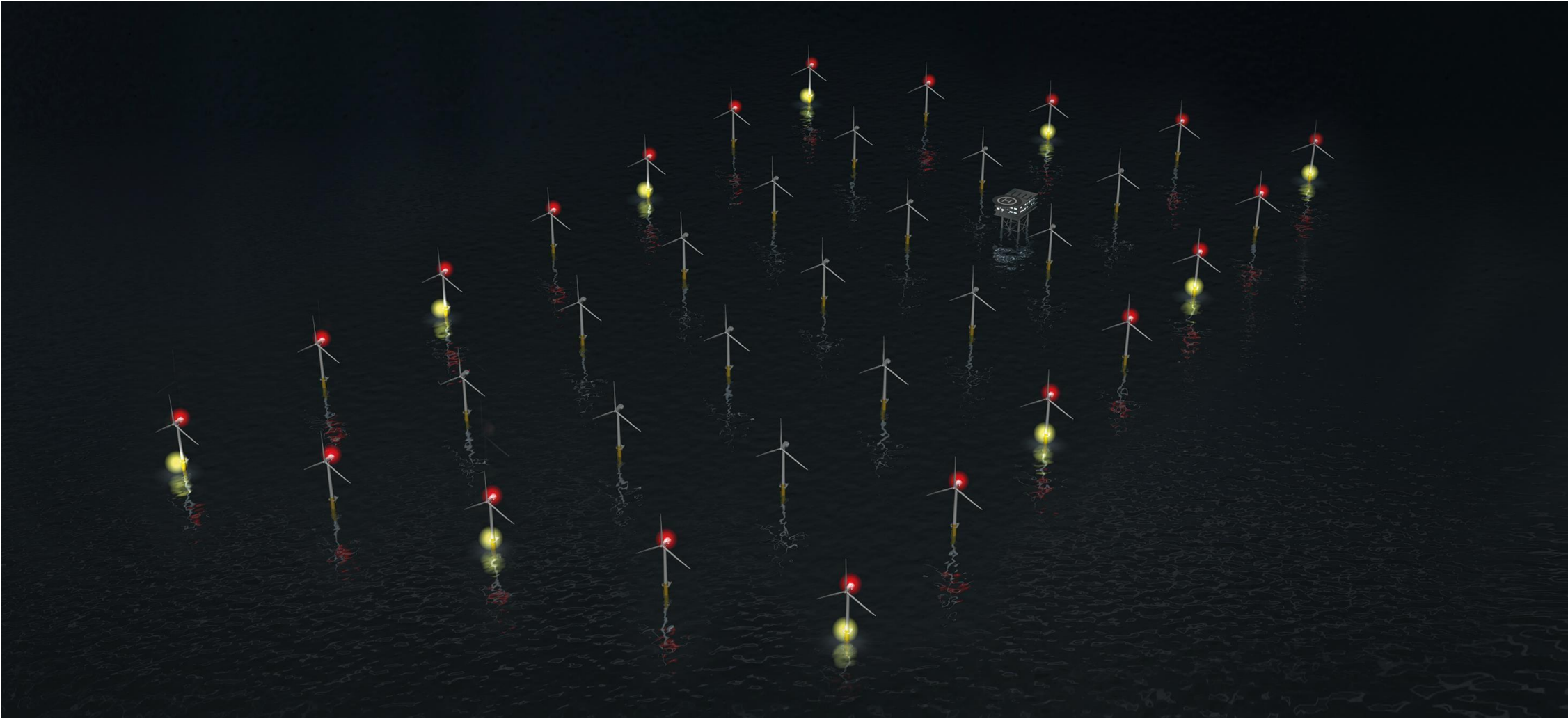


Maritime and Coastguard Agency



- 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

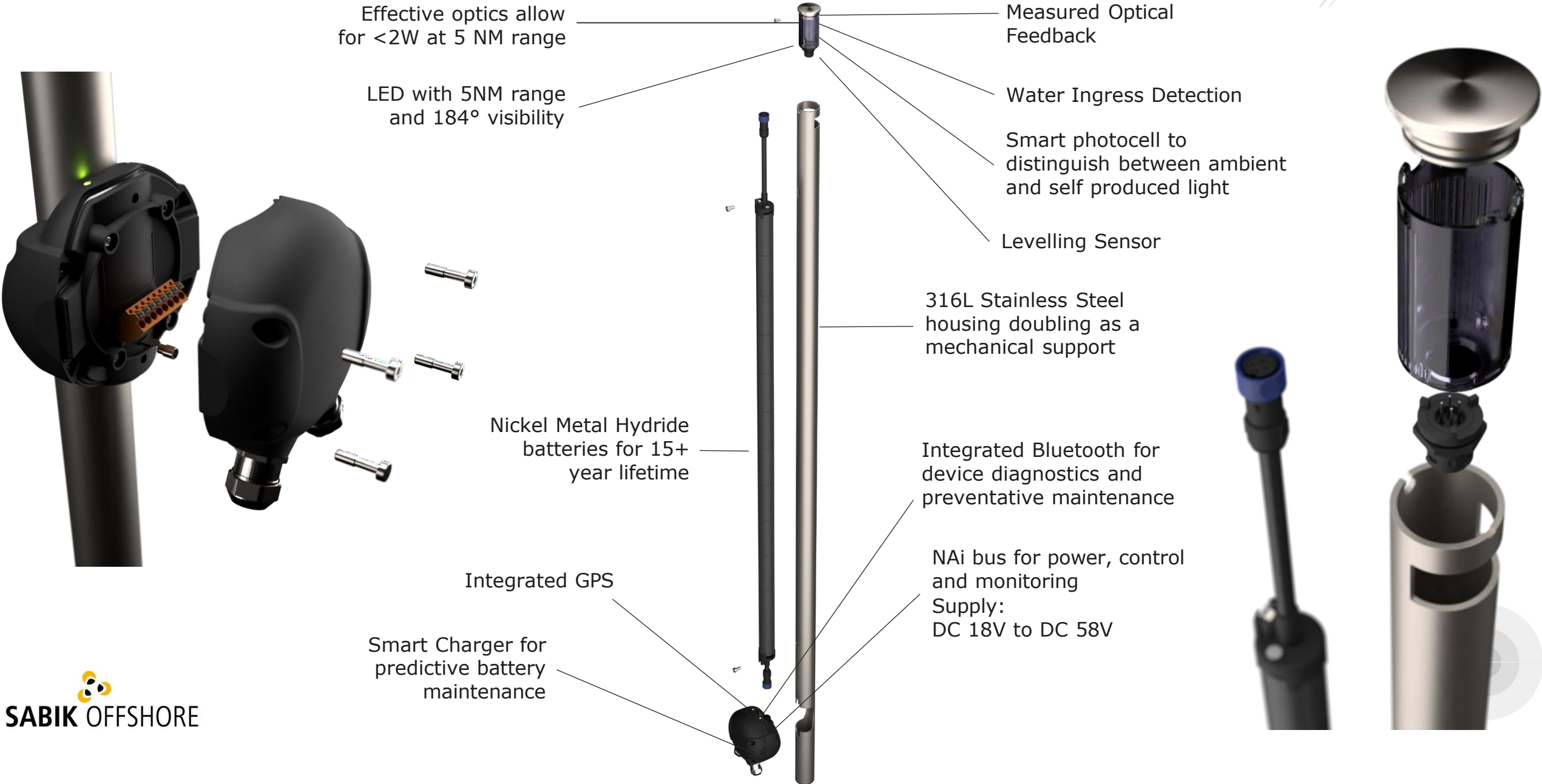


SECTION 3

Marine Marking

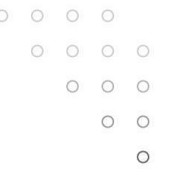
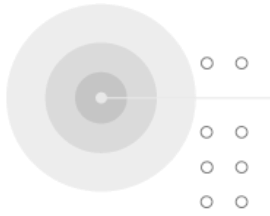


SeaMark | Marine Lantern



Marine Products

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



SECTION 4

Safety Lighting



The New LA40

Redesign from LA70

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





Safety Light Products

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



SECTION 5

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

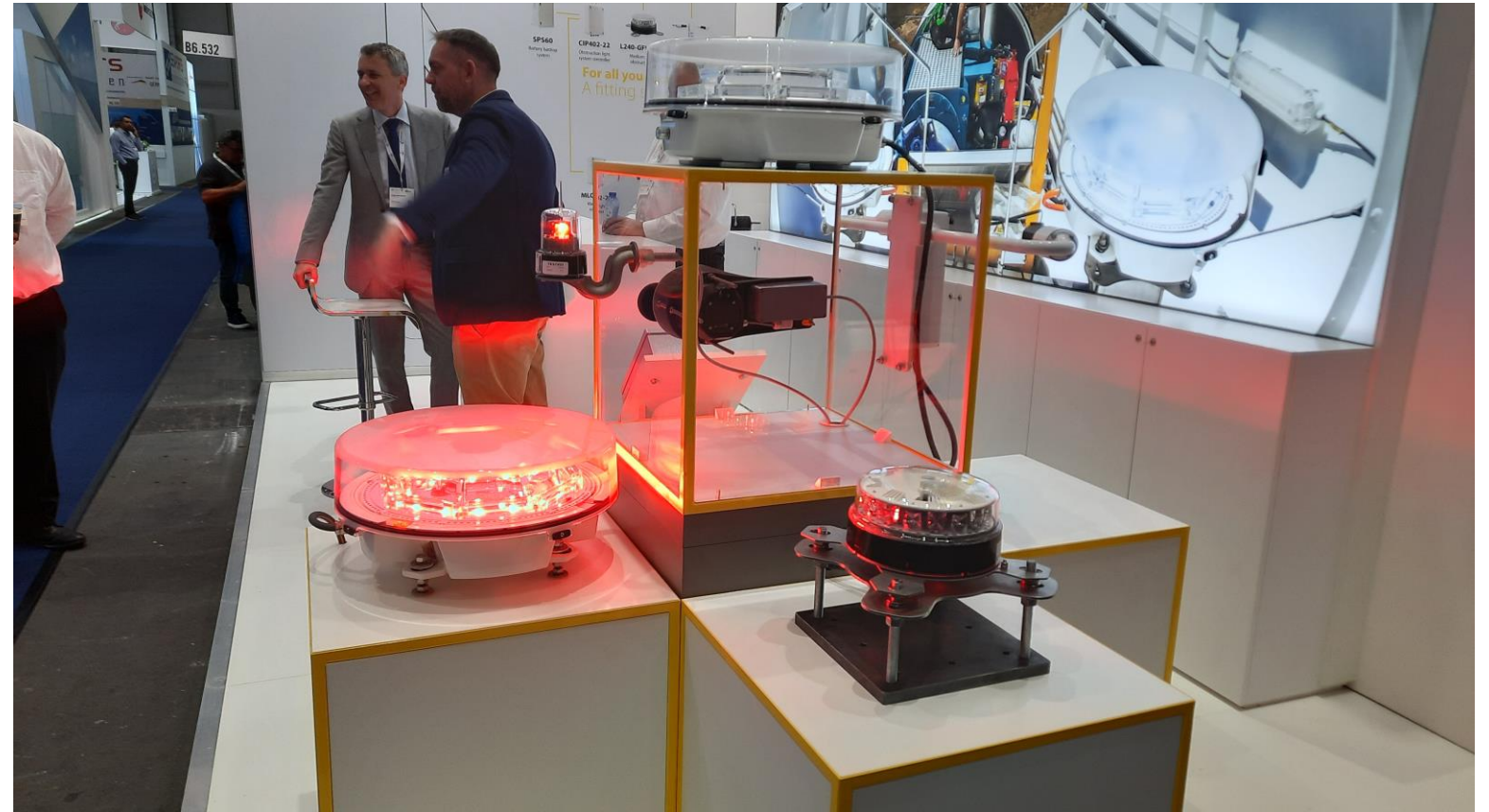
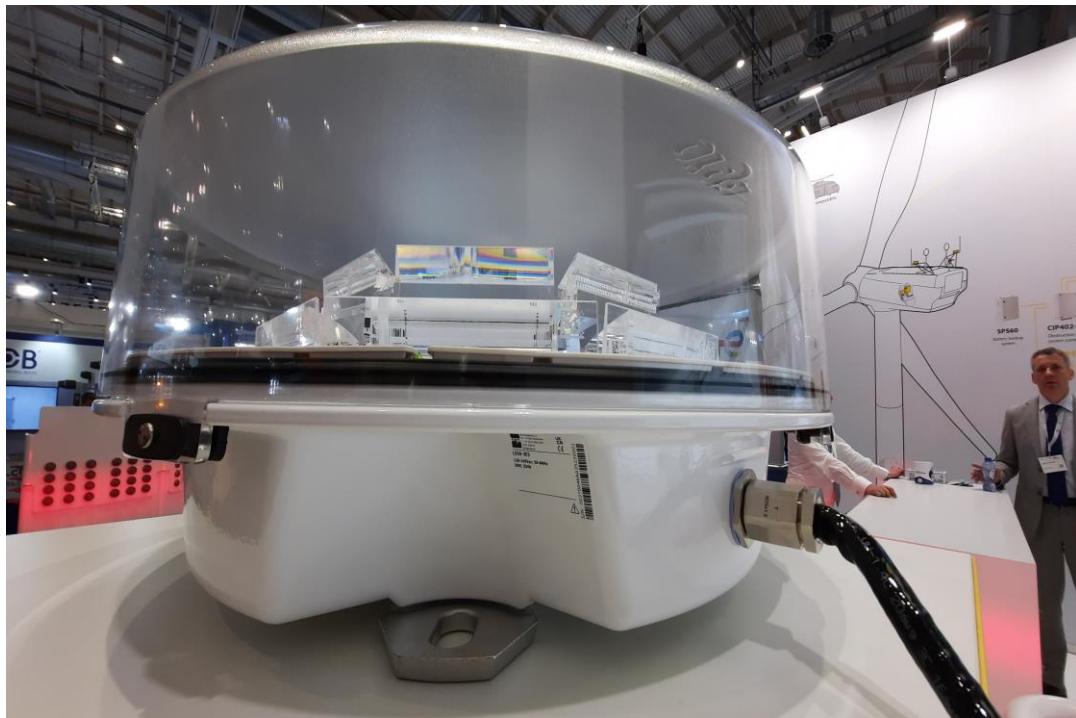




Orga Obstruction Lights

At WindEnergy Hamburg 2022

- Medium and Low Intensity Lights

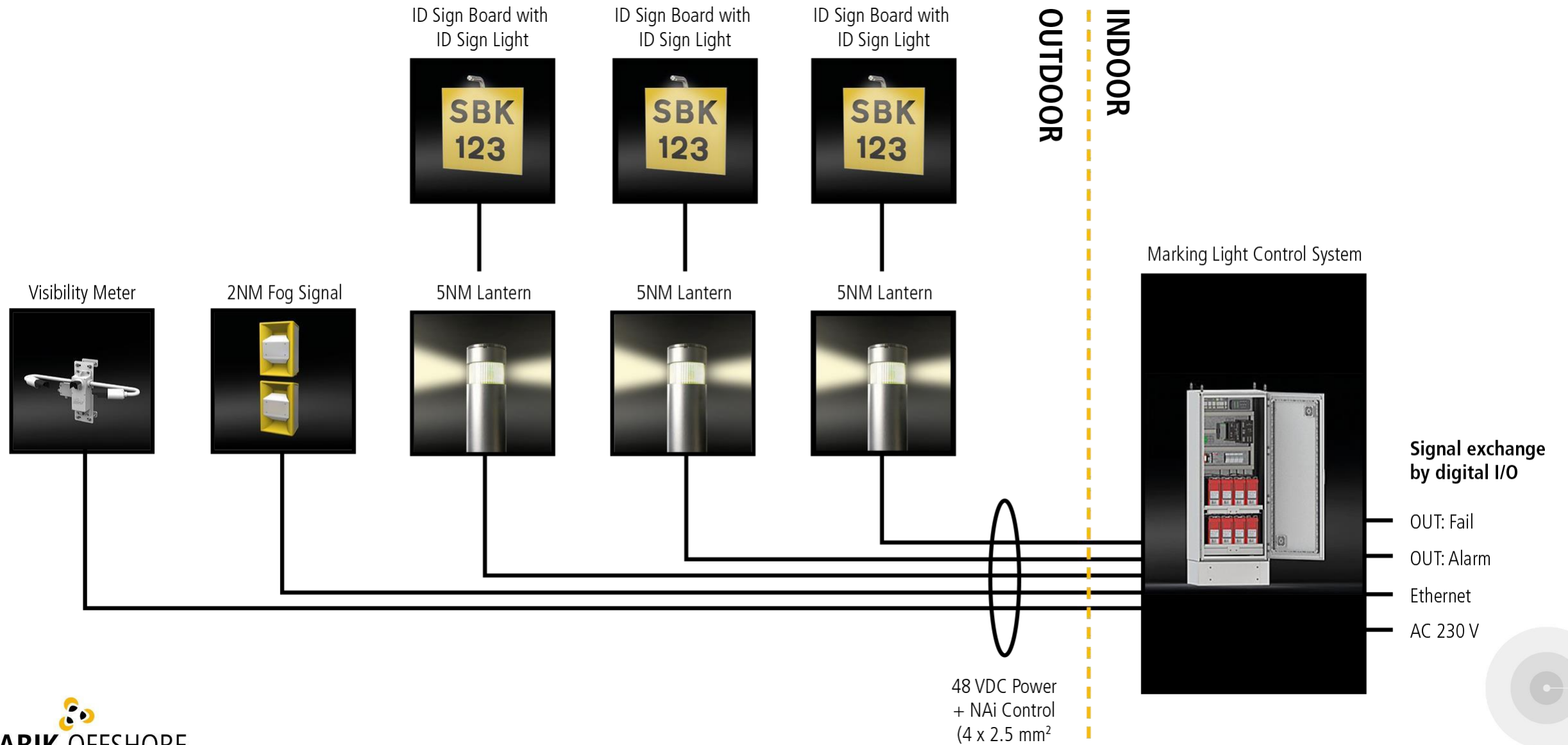


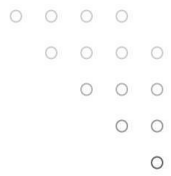
SECTION 6

Systems and Controls

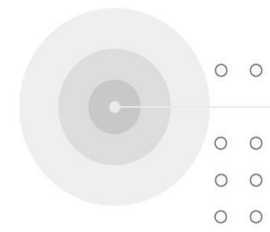
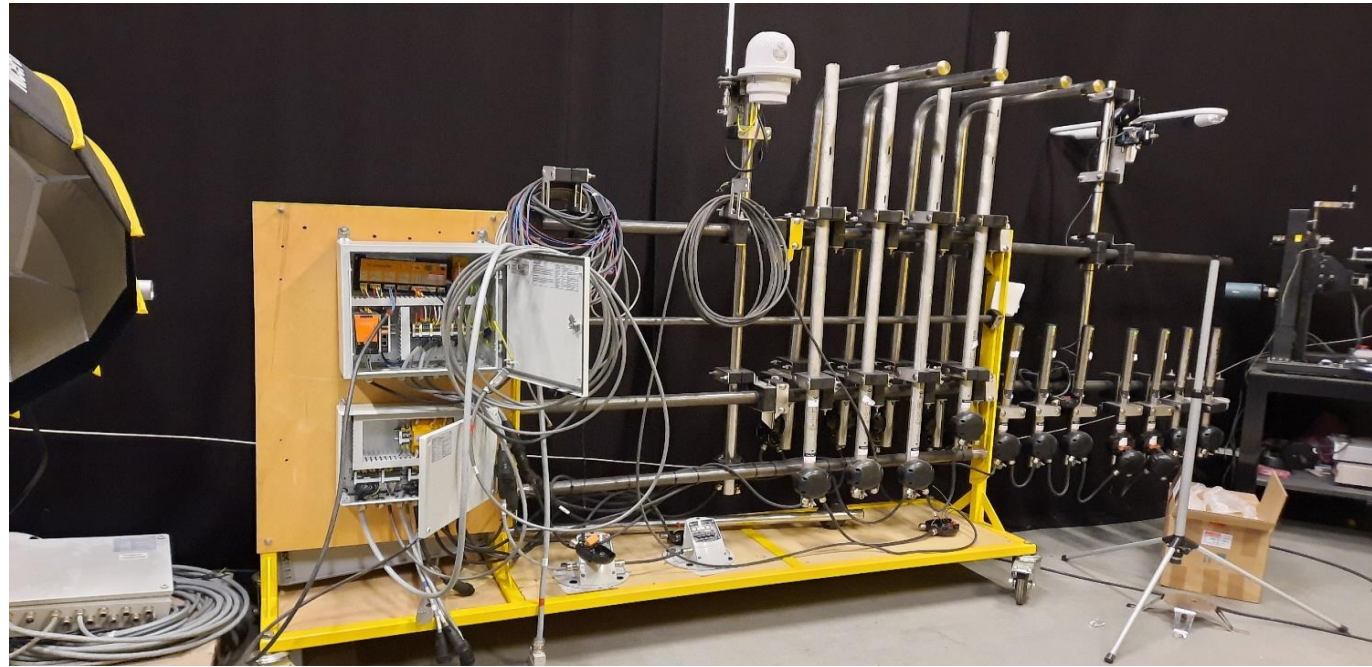
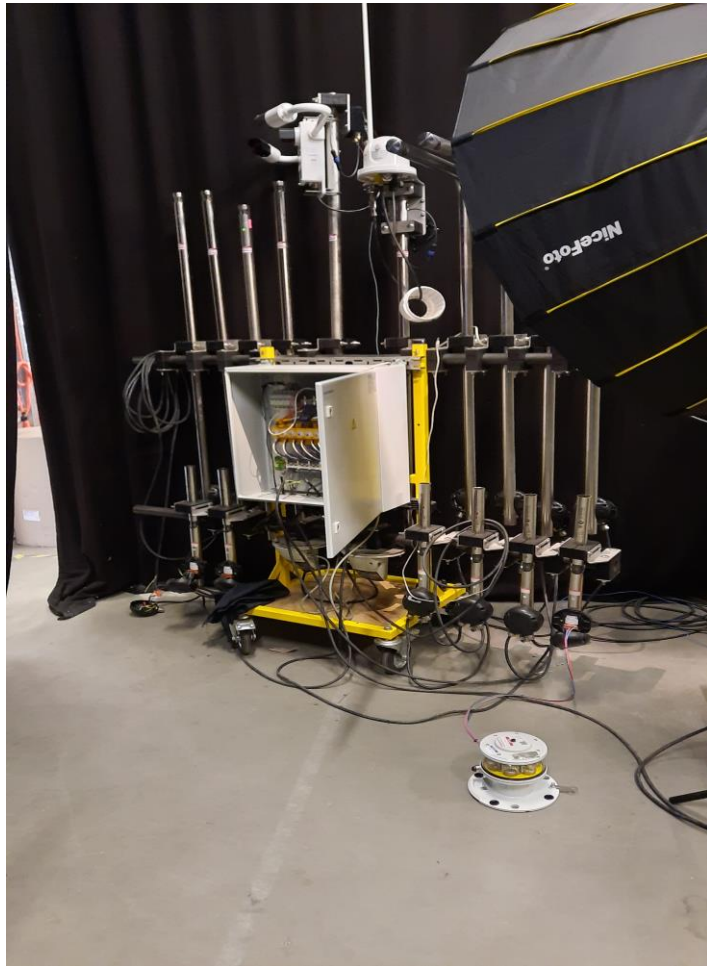


The NAI System

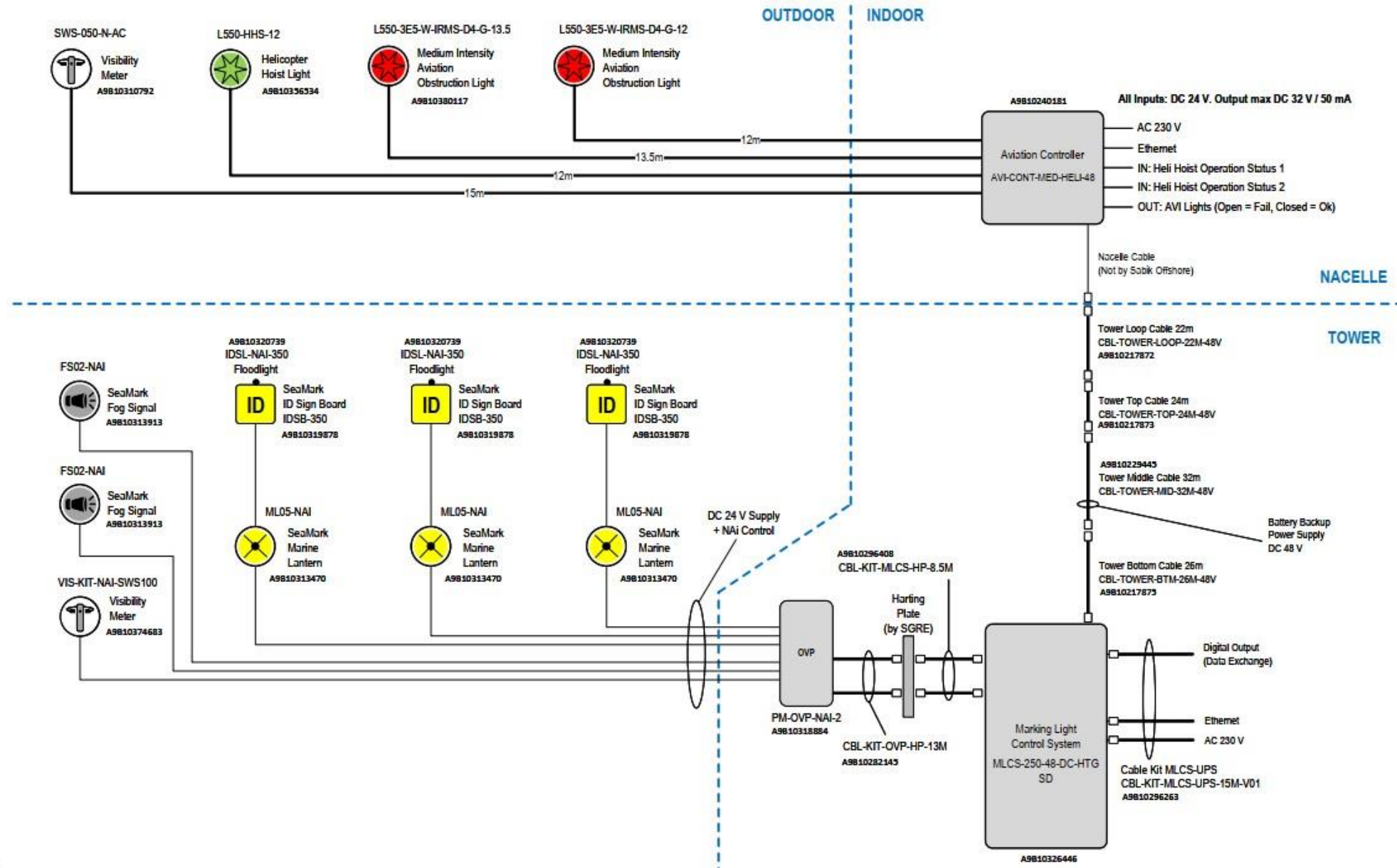




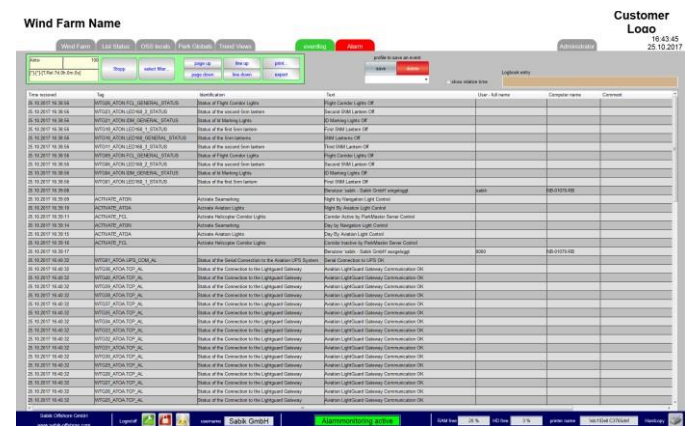
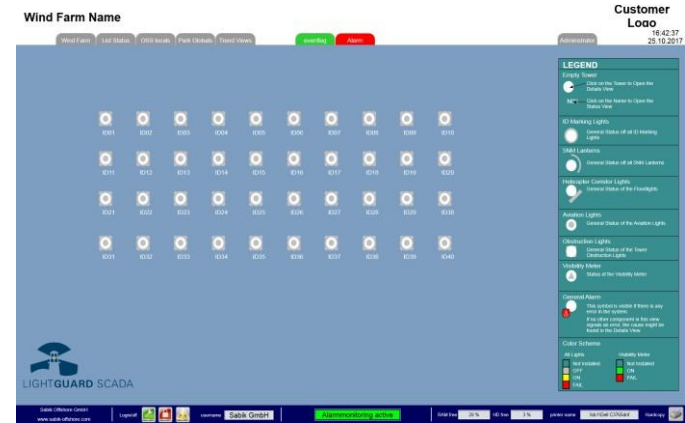
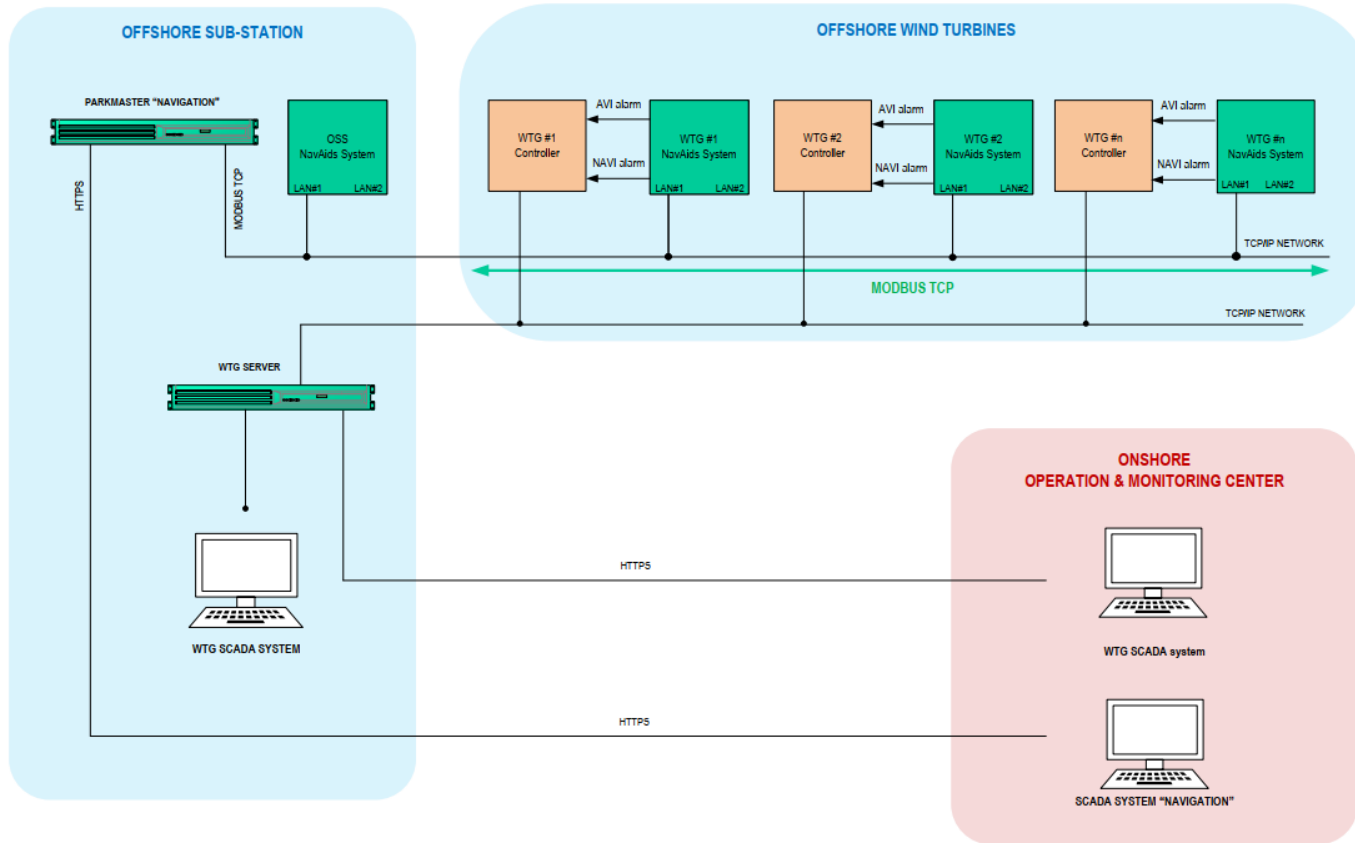
The NAI System



SGRE Architecture



SCADA



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

SECTION 7

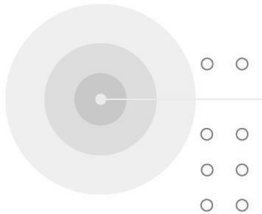
Further Resources



YouTube Channel

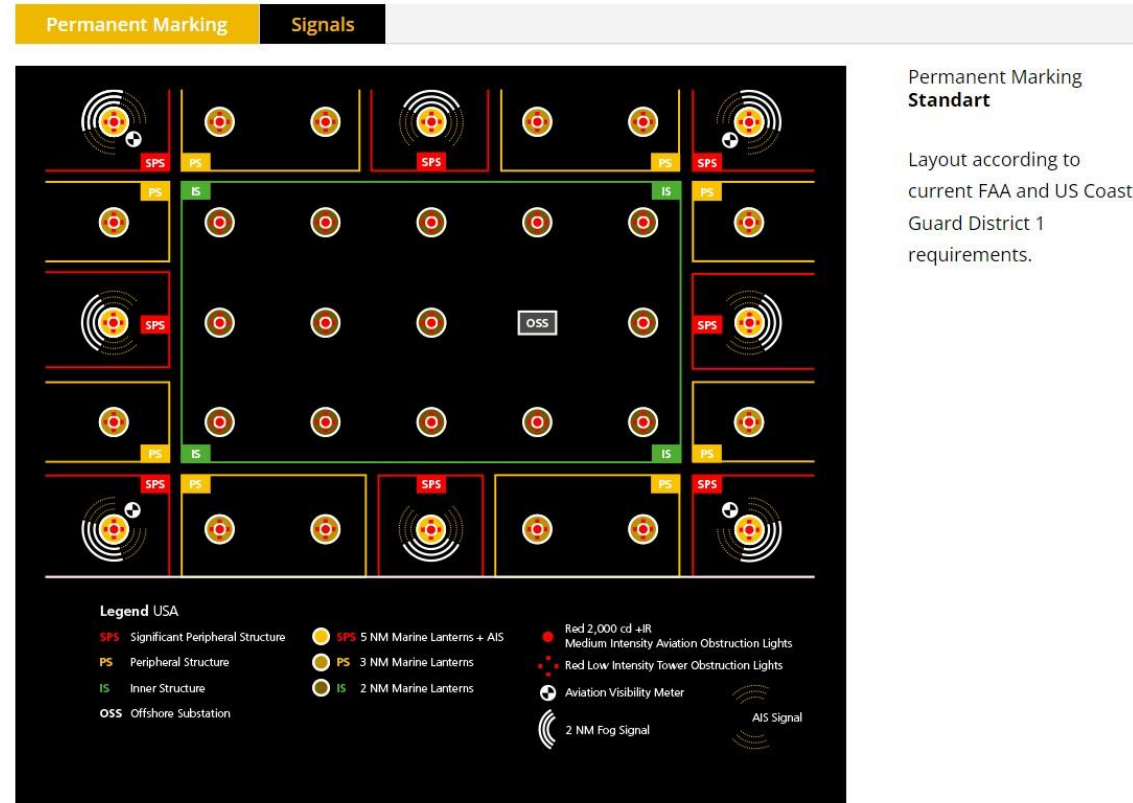


[Sabik Offshore YouTube Channel](#)



Marking Guide

Marking Layout



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

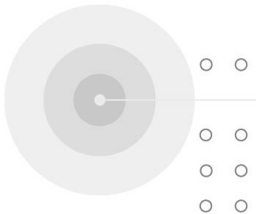
- [Generally Accepted Specification for Marine Lanterns](#)
- [Marine Lantern](#)
- [LED 160 NAI GPS](#)

guide.sabik-offshore.com



USPs

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



Thank You!

David Koh

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