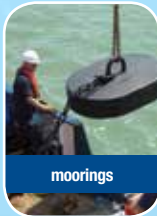
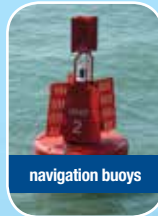




data buoy platforms



moorings



navigation buoys



hydrosphere



navigation lights



mooring buoys



installation

the UK's leading supplier of aids to navigation

# renewable energy

## PRODUCT SUMMARY

NAVIGATION LIGHTS 🌀 NAVIGATION BUOYS 🌀 MOORINGS 🌀 REMOTE MONITORING SYSTEMS  
 INTERFACE TO SCADA 🌀 FOG SIGNALS 🌀 AIS 🌀 OBSTRUCTION LIGHTS 🌀 MAINS & SOLAR POWER SUPPLIES  
 GPS SYNCHRONISATION 🌀 RADAR TARGET ENHANCERS 🌀 SONAR TRANSPONDERS  
 INSTALLATION & MAINTENANCE 🌀 SYSTEM DESIGN, CONFIGURATION & DOCUMENTATION



renewable energy



MOBILIS



# world-leading renewable energy solutions

Hydrosphere is the UK's leading supplier of all aids to navigation equipment for offshore renewable energy sites. We have over 18 years of experience in providing solutions ranging from single LED beacons to entire wind farm systems including: temporary solar lights, navigation buoys, navigation lights for fixed and floating structures, foghorns, remote monitoring, and data buoy platforms. Our customers include offshore wind, wave and tidal energy developers as well as Trinity House, Commissioners of Irish Lights, the Northern Lighthouse Board, and all major ports and harbours in the UK and Ireland.

## construction phase

### self contained LED navigation lights

Solar-powered marine LED navigation lights for use on fixed and floating structures. All lights are able to exhibit all standard IALA flash characters.

#### 2NM LIGHTS FOR MARKING MONOPILES



Vega VLB-2



Carmanah M650

#### 6NM BEACONS FOR TEMPORARY MARKING OF LARGER STRUCTURES



Sabik SC 155



Vega VLB-36 XL PP

### navigation buoys

We are the exclusive UK and Ireland distributor for world-leading Mobilis buoys suitable for marking offshore wind farm, wave, tidal and current sites. All buoys are compliant with IALA recommendations and have options for remote monitoring with alarms via GSM or satellite.

### Mobilis buoys

The Mobilis modular JET range of buoys range from 3.0m – 2.4m hull diameter and are suitable for offshore and deep water locations where a large, highly visible navigation buoy is required.



### moorings

The mooring is an integral part of the system that will affect the performance and reliability of the buoy. On problematic locations we recommend a detailed mooring study be carried out to maximise reliability and minimise future maintenance costs.

## electronic aids to navigation

### sonar transponders



Sabik Sonar Transponder

### AIS



Kanatone AIS Transponder  
Type 1 and Type 3

### RACON



HEKLEO-SX

## permanent marking

### signage

Maintenance-free, night-time ID marking with illumination of up to 10cd/m<sup>2</sup>.



Sabik IMS-650

### fog signals and detectors

Visibility detectors and 2.0NM to 0.5NM compact, omnidirectional foghorns emitting a 360 degree beam of sound. All designed for offshore use.



Sabik SFD 7100  
Fog detector



Sabik FW 6 Fog Signal



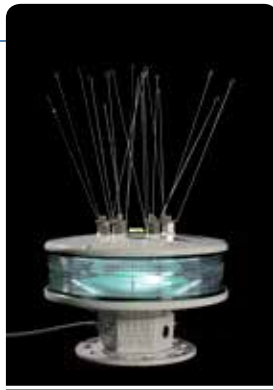
Sabik FW 1 Fog Signal

### LED lights

5NM and 15NM marine lanterns for use on offshore wind farms and MET masts with optional GPS synchronisation.



Sabik LED 155



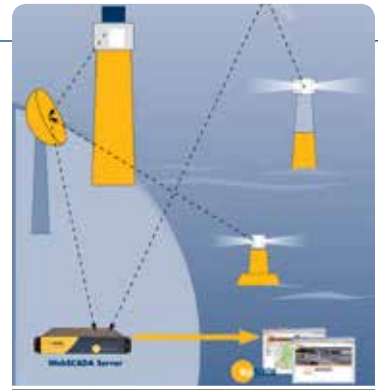
Sabik LED 350

### monitoring and control

Remote monitoring systems by GSM or satellite for monitoring and controlling a set of fixed AtoN including: navigation lights, obstruction lights, fog signals, AIS, racons, signage, sonar transponders, two-way communication and GPS.



Sabik NavAid Controller



Interface to SCADA

### System design, configuration and documentation

All design, configuration, documentation, supply, installation, maintenance and removal of products is available.

## electronic aids to navigation

### traffic surveillance systems



Sabik TSS

### radar target enhancers



EchoMax  
Active X and XS

The products illustrated in this product summary are a sample of the range and variations available. All products can be tailored to meet site-specific requirements regarding colour, shape, navigation lights, radar reflectors, solar power supplies, monitoring systems, and moorings.

Please **contact us** and we will be happy to guide you to the best specification for your requirements.

Compliant with all IALA recommendations.



## our customers

- Greater Gabbard
- Sheringham Shoal
- Walney
- North Hoyle
- Scroby Sands
- Kentish Flats
- Burbo Bank
- Robin Rigg
- Lincs
- Strangford Lough
- Pelamis Wave Power Ltd.
- SeaGen
- Fred. Olsen



Image courtesy of Marine Current Turbines Ltd.

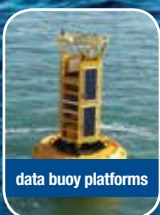
## the right solution for the job

To make sure you get the right product for your requirements consider all the factors that will affect the visibility and stability of the aid including: depth of water; sea conditions and current; lighting and range of light required; shape and topmarks; and focal plane.

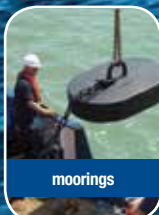
## about Hydrosphere

Hydrosphere is the UK's leading supplier of aids to navigation and has been providing cost-effective solutions to the marine industry for more than 18 years. We offer a wide range of navigation and mooring buoys, LED navigation lights, sector lights, rotating beacons, leading lights, jetty masts, beach and zone marking products and associated moorings. Rental, installation and maintenance services are also available for all our products and systems.

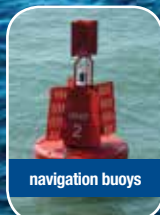
**For more information please contact us.**



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installation

**the UK's leading supplier of aids to navigation**

aquaculture | marinas & sailing clubs | ports & harbours | offshore renewable energy | oil & gas

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