



MARINE

Aids To Navigation

JFC MARINE

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Offshore Windfarm Services

With over 30 years' experience fabricating innovative plastic products, JFC Marine manufacture and supply a complete range of precision engineered navigation buoys complete with Aton's systems. We offer an extensive range of aids to navigation equipment including lanterns, AIS systems, battery and solar powered solutions.

With the increase in renewable energies and growth in the installation of offshore wind farms, JFC Marine offers a comprehensive range of aids to navigation suitable for safe marking of wind farm sites during construction.

Aids To Navigation Mooring Design Services

JFC Marine offer a complete ATONS mooring design service for all navigation buoys within their installation sites.

We use key measurements gathered from “Sea State Data” such as:

- Mean water depth.
- Tidal range.
- Max wind speed.
- Max water current.
- Max wave height.

With this information we can design and recommend different mooring options using our “in-house calculator”. These solutions are built in accordance with IALA Guidelines and include:

- Size of mooring chain to be used.
- Length of chain required at each location.
- Mooring sinker weight.

In addition we can also calculate the maximum swing radius of the buoy from its mooring position.

Pre-Construction Solutions

JFC Marine Data / Met Ocean Buoys

JFC Marine offer a complete portfolio of data buoy solutions.

We have a comprehensive range of data buoy platforms to suit all requirements complete with Remote Sensor Pod (RSP) an internet of things centric data acquisition system designed to deliver high speed real time data.

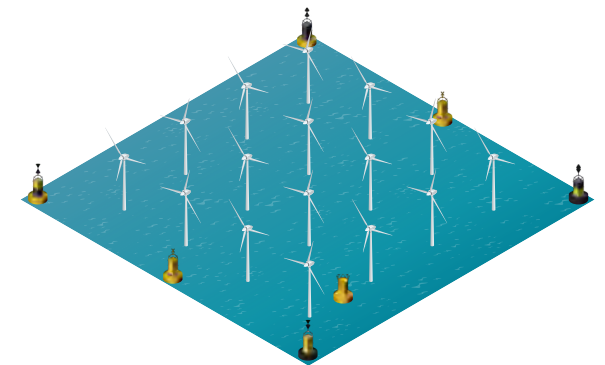
Our systems are designed to operate in all-weather environments and can be deployed in inshore and offshore locations. The pod is customised to accommodate a variety of Met ocean sensors.

- A precision GPS, also providing data time stamping.
- A high resolution altitude sensor.
- A precision humidity sensor.
- A tilt compensated compass, for pitch, roll and yaw.
- An accelerometer, magnetometer and gyro.
- A temperature sensor.
- LiDAR Systems.

Aids To Navigation

JFC Marine manufacture and supply a complete range of precision engineered navigation buoys complete with Atons systems. Designed for both inshore and offshore applications our modular designed buoys aim to set a new standard in floating aids to navigation.

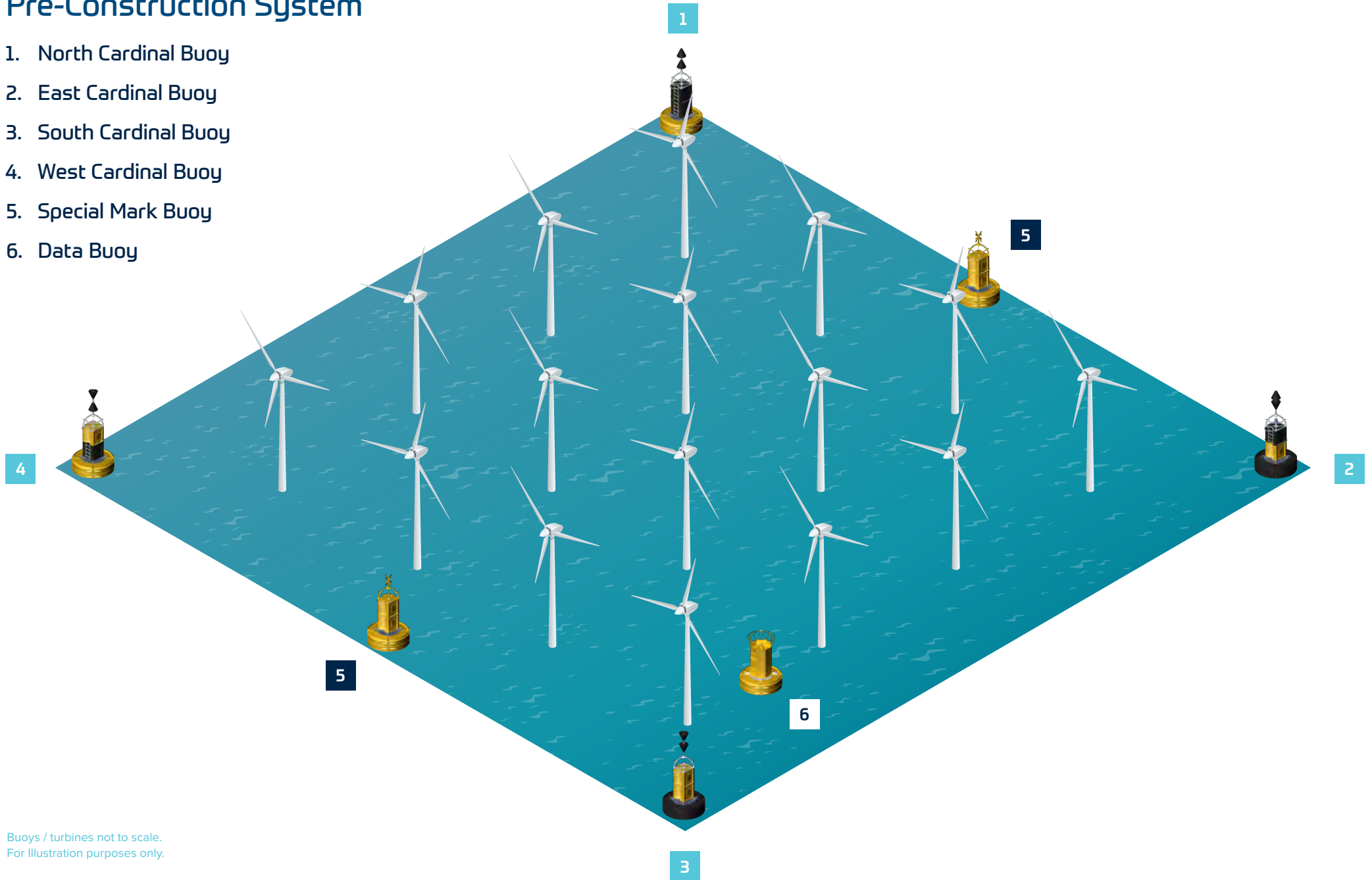
- Unique centre core design increases the buoys stability and strength providing additional security.
- Our large daymark and high visibility colours mean that our buoys are very prominent in the water alerting vessels to stay away from dangers.
- All our buoys are manufactured in accordance with IALA Maritime Buoyage System e.g. Cardinal or Special Mark Buoys.
- All buoys can be fitted with a remote monitoring pack to provide real-time information such as signal strength, position, battery voltage, configuration, and alerting.
- Option for setting up alerts for GPS watch circle, GPS watch area, impact detection and tilt and rotation alerts. This information can be transferred through GSM, AIS or Satellite depending on the location.
- All buoys can be equipped with a full range of Sabik / Carmanah Led lanterns to suit all applications.



See Our Systems
On The Next Page >>

Pre-Construction System

1. North Cardinal Buoy
2. East Cardinal Buoy
3. South Cardinal Buoy
4. West Cardinal Buoy
5. Special Mark Buoy
6. Data Buoy



Buoys / turbines not to scale.
For illustration purposes only.