

With over 45 years of experience, Orga delivers high quality and efficient solutions to make offshore platforms more visible for passing marine traffic. Our experience and specialists coupled with our in-house research and development department keeps us at the forefront of emerging technologies. This ensures that our solutions are also suitable for decommissioned and abandoned platforms.

To contribute to the safety of the people, assets and the environment we understand it is necessary to take international and national requirements into account. Due to a strong collaboration with local regulators, all our Navigational Aids products meet the IALA requirements and are compliant with regional regulatory requirements. At Orga we don't just help you meet these challenges, we help you to stay ahead of them.



Why is marking a decom platform necessary?

Once offshore platforms stop producing oil and gas, it is not the end of their life-cycle. They become part of the decommissioning industry. Decommissioning is the process of ending offshore oil and gas operations at an offshore platform and returning the ocean and seafloor to its previous condition. Over the coming decades, the decommissioning of oil and gas installations will increase, since a lot of production facilities are nearing the end of their economic life. The complete process, is very complex and involves many steps, taking years to complete. Therefore it is necessary to mark these abandoned platforms in line with international or national requirements, throughout all stages of the decommissioning process, for the safety of passing marine traffic.

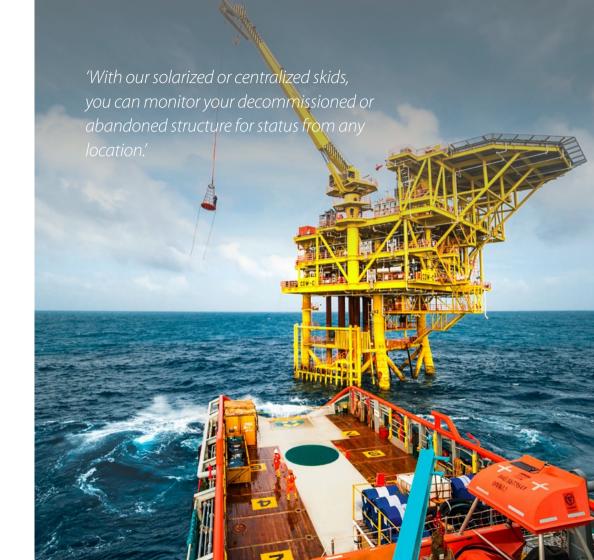


Orga provides efficient and effective marking that meets the IALA requirements and is compliant with regional regulatory requirements. Our solarised Aids to Navigation skids are suitable to withstand the harsh offshore environment and compact due to the optimised design. The LED energy-efficient marine lights are completely solarised and available for safe and gas hazardous areas. Each skid will be validated by using a verified solar and battery load calculation to provide you with confidence once you leave the platform. For peace of mind, the secure in-house remote monitoring package allows you to monitor the decommissioned structure for status and failure from any location. This underlines our commitment to low maintenance, reliability and minimal intervention.



In addition to our solarised Aids to Navigation skids, we also provide a Digital Navaids Central Control Panel (D-NCCP) system, that meets all IALA requirements and is adjustable to several national regulations. This system is perfectly suitable for abandoned platforms, since it is a complete package combined with a solar or wind generator and a central battery pack. These give power to the connected marine lights, foghorns, radar beacons, aeronautical obstructions lights etc. The D-NCCP system has the intelligence to use remote monitoring facilities to obtain status information about from any remote location, which causes low maintenance and results in of OPEX costs.

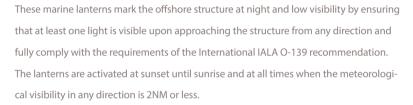
By using this centralised system we can often use the existing cables and infrastructure to keep the CAPEX costs low.



L420

Marine Lantern

- Available in 10NM White and 3NM Red
- · LED marine lantern
- · Decentral concept
- · Wireless synchronisation through GPS



The L420-W-10 marine lantern is designed to provide 10NM white omni-directional visual coverage and has a minimum effective intensity of 1400Cd. It is a white light, flashing in Morse code 'U' every 15 secs. The L420-R-03 marine lantern is designed to provide 3NM red omni-directional visual coverage and has a minimum effective intensity of 15Cd. It is a red light, flashing in Morse code 'U' every 15 secs.

Both versions are based on a decentral concept, which means that the electronics needed for the power supply, code generation, photocell activation etc is arranged locally at the marine light. The marine lights can be supplied with wired synchronisation and communication connection or with a GPS code synchronisation facility, which will save you on installation costs.



L410

Marine Lantern

- Available in 10NM White and 3NM Red
- · LED marine lantern
- · Works in conjunction with NCCP



The Orga marine lights fully comply with the requirements of the International IALA O-139 recommendation (International Association of Lighthouse Authorities). These marine lanterns mark the offshore structure at night and during low visibility by ensuring that at least one light is visible upon approaching the structure from any direction. The lanterns are activated at sunset until sunrise and at all times when the meteorological visibility in any direction is 2NM or less.

The L410-W-10 marine lantern is designed to provide 10NM white omni-directional visual coverage. The L410-W-10 has a minimum effective intensity of 1400Cd. It is a white light, flashing in Morse code 'U' every 15 secs controlled by the Orga Navaids Central Control Panel (NCCP).

The L410-R-03 marine lantern is designed to provide 3NM red omni-directional visual coverage. The L410-R-03 has a minimum effective intensity of 15Cd. It is a red light, flashing in Morse code 'U' every 15 secs controlled by the Orga Navaids Central Control Panel (NCCP).

AIDS TO NAVIGATION SOLUTIONS

FH800(3)

Omni-directional Foghorn

- · 2NM Omni-directional foghorn
- Works with NCCP in a central concept or from a local control panel in a decentral concept
- · Can be supplied in a main/secondary concept as an option



Due to smart technology we can operate this foghorn with a low power consumption. The sound character, of the foghorn, is Morse code 'U' every 30 secs and is controlled from the NCCP or from a local control panel. The foghorn signal can be activated whenever the meteorological visibility is 2 NM or less by means of a visibility meter, and can be powered from a solar system or other UPS system.



D-NCCP

Digital Navaids Central Control Panel

- Can replace existing central systems when platform is put in to lighthouse mode
- Smart modular design for easy maintenance and set-up
- Touch screen user interface to allow full system interaction



A major component of the Aids to Navigation system is the control panel. Orga has designed a state of the art modular control panel that is capable of full user interaction via the touch screen. Available in both noncertified and certified (Zone 1) version, the modular navaids central control panel (NCCP) has full alarm, history and status monitoring capabilities as well as offering full redundancy and being easy to maintain and set-up.

The design features control through compact modules resulting in a control panel that takes up minimal floor space. The D-NCCP is suitable to control marine lights, foghorns, radar beacons, aeronautical obstruction lights, visibility meters, photocells and any other peripheral equipment, needed in the decom mode of the offshore installation. The control panel can be provided with solar regulator facilities, remote satellite monitoring facilities in order to provide a standalone system for unattended installation on the decommissioned offshore installation.

AIDS TO NAVIGATION SOLUTIONS

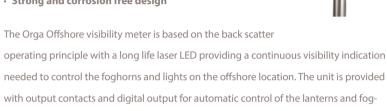
AIDS TO NAVIGATION SOLUTIONS

VDX05

Visibility Meter

- Automatic ON/OFF control in low visibility of the foghorn or lights
- · Works in conjunction with NCCP and in standalone mode
- · Strong and corrosion free design

ensure long term installation.



horns. The unit is made of stainless steel and provided with self-monitoring functions to



OSP108

Solar panel

- · Your asset safe during its lifetime
- · Maintenance free and easy installation
- · Suitable for harsh offshore environment
- · Very reliable autonomous power



The ORGA solar system is an autonomous and maintenance free power supply, with backup power for several days. The solar power system is calculated based on the worst case weather scenario, with an all-time positive power balance and thus very reliable.

The system is designed to keep your asset safe during its lifetime in the harsh offshore environment. The no-trouble, maintenance free and easy installation of the ORGA solar power system is the perfect solution with our integrated navigational aids system. Because the ORGA navigational aids system is the most efficient system on the market, the number of solar panels, solar regulators and batteries is the most optimized too.

Tailor made solutions, with all factors taken into account.

Whether it is a full decommissioning or long-term abandonment project, each project requires an in-depth understanding. Therefore Orga takes into consideration a number of factors affecting project dynamics:

• Duration of deployment

Access

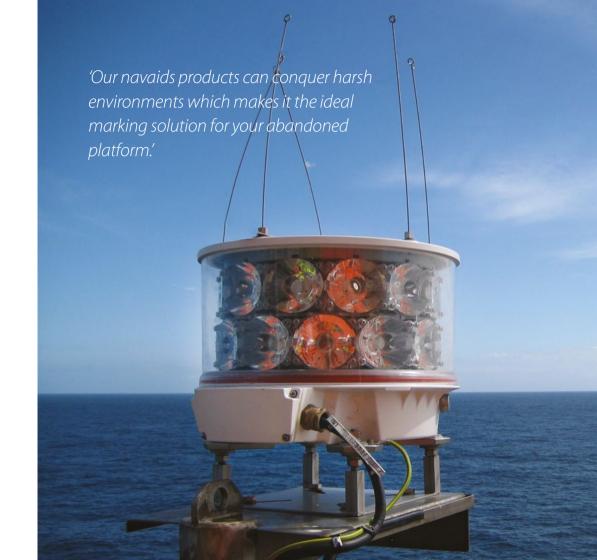
Geographic location

Regulations

Area classification

Operational standards

With over 45 years of experience, Orga will provide the right advice and guidance during this process and will make sure every option is taken in consideration, resulting in a reliable, power and cost effective solution, tailored to your decommissioning project or temporary system.



Why make business complicated when the solution is just one call away?

After installation, a qualified Orga service engineer visits the offshore location to test and inspect the system, in order to make sure that the system functions in line with the reguirements of the project. On request, Orga can provide preventive maintenance service in order to increase reliability over a longer period.

In addition to the hands-on service option, Orga is also able to provide a remote monitoring system. With the Global Remote Monitoring solution, a secure Internet Explorer, Chrome and Safari compatible website gives access to the status of the Aids to Navigation system with a range of condition monitoring indications. With this system you can obtain status indication from every location in the world with internet access.

Over 45 years of innovation experience

Since 1973, Orga has been delivering high quality and efficient marking solutions for offshore platforms, to contribute to the safety of people, assets and the environment.

For optimum marking of your decom platform, call us:

+31 10 208 5555



TOTAL SERVICE. DESIGN, PRODUCTION. AND MAINTENANCE.



HIGH RELIABILITY REMOTE MONITORING OPTIONS **AUTONOMOUS POWER SUPPLY**



100% REGULATORY COMPLIANCE PROVEN TRACK RECORD.



CENTRAL & DECENTRAL CONCEPT



LOW MAINTENANCE OPERATIONAL SAVINGS.



