



# Vessel Case Studies

WHEN ONLY MARITIME PROGRESS WOULD DO

2022

## Case Studies

Here are a select few of our most successful projects over the last 35 years that have inspired us, demonstrating how Maritime Progress Limited are an established, proven and trusted supplier within the marine and offshore industry, worldwide.

## Our Clients



## HMS Queen Elizabeth

HMS Queen Elizabeth is the largest and most powerful vessel ever constructed for the Royal Navy. This awe-inspiring warship can carry up to 40 aircraft. As well as state-of-the-art weaponry and communications systems. HMS Queen Elizabeth boasts five gyms, a chapel and a medical centre.

The flight deck of HMS Queen Elizabeth comes in at an enormous four acres and will be used to launch the fearsome new F35 Joint Strike Fighter fast jet. Four fighter jets can be moved from the hangar to the flight deck in just one minute. The ship's two propellers weigh 33 tonnes each. The power plant behind them generates enough power to run 1000 family cars.



Maritime Progress Limited worked alongside BAE Systems, who provide ship repair, maintenance and upgrade services. We supplied thousands of legislatively compliant safety signs, tapes and posters to HMS Queen Elizabeth back in 2017 and numerous other warships.

We were able to meet their specific demands of supplying **Polyester Rigid material (PET)** as PVC was banned from the vessel. So as an alternative to PVC, due its toxicity and radioactive additives and flame resistance, we were able to offer PET, a 100% environmentally friendly material with good UV resistance.

## RRS Sir David Attenborough

The RRS Sir David Attenborough is one of the most advanced polar research vessels in the world. The state-of-the-art ship departed the UK for its maiden voyage on 17 November 2021. In October 2020, the technical sea trials and scientific equipment testing began and the ship was handed over to NERC and BAS by shipbuilder Cammell Laird on 27 November 2020. This multidisciplinary research platform will transform how ship-borne science is conducted in the polar regions and provide scientists with state-of-the-art facilities to research the oceans, seafloor, ice and atmosphere.

The new polar ship was commissioned by NERC, built by Cammell Laird for operation by British Antarctic Survey. The commissioning of the RRS Sir David Attenborough is part of a major Government investment in polar infrastructure which will keep Britain at the forefront of world-leading research in Antarctica and the Arctic. This £200m commitment represents the UK Government's largest investment in polar science since the 1980s.



**Maritime Progress Limited** in partnership with **Cammel Laird**, who are the largest and most successful ship repair and conversion specialist in the UK, supplied RRS Sir David Attenborough with high performance **pipe marking** tape that could cope with the extreme polar conditions they would face onboard. We supplied the vessel with the very best pipe marking tape, with a service temperature -40°C to +80°C with excellent UV and weather resistance.

## MV ST Helena

The ex-Royal Mail Ship which acted as the lifeline to the island of St. Helena, has been under Extreme E's stewardship for more than two years and during this time has undergone an extensive multi-million-euro renovation process, including a comprehensive mechanical overhaul as well as a full refurbishment of the interior alongside a fresh livery and branding.

She is used to transport the championship's freight and infrastructure, including vehicles, to the nearest port to each of its five race locations, minimising Extreme E's emissions profile as well as facilitating scientific research through an on-board laboratory.



Maritime Progress Limited was instructed by Wilson Yacht Management Group, who are an independent ship, crew and yacht management experts to supply all the latest LSA & FES signs as defined in **A.1116 (30)**. Each sign, needed to be made in **Photoluminescent rigid PVC** with **3M™ self-adhesive backing** to meet the ship builders' requirements in a quick turn around time.

They came back to us again for our rolls of **Photoluminescent wayfinding tape** which they used for directional route marking, with its high intensity luminous properties far exceeding requirements of **DIN 67510 Part 1**.

## Vladimir Rusanov

The 'Vladimir Rusanov' is the world's first Ice-Breaking LNG carrier, jointly ordered by MOL and China COSCO Shipping Corporation Limited. The name is derived from Russian Arctic explorer and geologist. The Vladimir Rusanov is the first of three new building vessels for MOL and China COSCO Shipping's fleets in the Yamal LNG Project. The vessel went into service at the end of March 2018, following its delivery at the end of December and ice trials (ice-breaking sea trials) in Arctic waters.

The Vladimir Rusanov and its sister ships will have independent ice-breaking capabilities enabling them to sail in seas with ice up to 2.1m thick. They are expected to make major contributions from various aspects such as improvement of LNG transport efficiency, establishment of a new transport route, and further reduction of CO2 emissions by shortening sailing distances.



Mitsui O.S.K. Lines, Ltd. (MOL), who have been a long-standing customer of Maritime Progress Limited, owns and operates liquefied petroleum gas (LPG) tankers and instructed us in 2019 to supply them with a Bespoke and unique '**Emergency Muster List**' and '**Warning**' posters with their own branding own. These were required in the hundreds and were produced on our high performing self-adhesive vinyl ready to be applied to their interior and exterior surfaces on board.



## Marella Explorer 2

Marella Explorer 2 is a medium size cruise ship serving the British cruise market. The ship began life as Celebrity Century and was the lead ship of the Century class. Her two near-sisters are Celebrity Galaxy (now Marella Explorer) and Celebrity Mercury (now Mein Schiff Herz). An innovative design, Century was much-loved by Celebrity fans and served Celebrity for 20 years.

In 2015, the ship was transferred to a joint venture between Royal Caribbean Cruises Ltd. and Ctrip. Following a major renovation, the ship was renamed Sky Sea Golden Era and went to work in the Chinese cruise market. The ship underwent another refurbishment in 2018 as part of its transfer to Marella Cruises, a joint venture between Royal Caribbean and TUI.



COLUMBIA Cruise Services who are an internationally recognized ship manager with more than 35 years of experience in world-class cruise ship management, approached us in 2018 to supply with them with a cross section of our whole range of safety signage solutions to ensure their newest ship in their fleet was fully compliant, including.

- Lifesaving Appliance Signs
- Means of Escape Signs
- Prohibition Signs
- Fire Fighting Equipment Signs
- FES and Supplementary Signs
- Warning Signs
- Mandatory Signs
- ISM Safety Posters
- Fire plan holder
- LLL Wayfinding Tape

## M/Y Katara

Motor Yacht Katara is one of the World's largest yachts. She is built by Lürssen as project Crystal. She was delivered to her owner, Sheikh Hamad bin Khalifa Al, part of the Qatar royal family in 2010- and reportedly worth over £200 million.

The Katara features exterior design by Espen Øino International, while her interior was penned by Alberto Pinto, with naval architecture by Lürssen Yachts. The yacht Katara has a steel hull and aluminium superstructure. She is powered by 2 MTU engines, which give her a top speed of 20.0 kn.

On the ranking of the largest yachts in the world, Katara superyacht is listed as number 33rd. She is the 14th-largest yacht built by Lürssen.



Famous German shipyard Nobiskrug, the leader in superyacht construction who build breath-taking luxury yachts wanted our **Masterclass™** range for this yacht. They ordered hundreds of our Photoluminescent 5mm acrylic and mirror polished stainless-steel signs, that are hand finished in house.

Our **Masterclass™** safety sign range is much loved by M/Y Katara as they have been specifically designed for use on board luxury motor yachts. They are aesthetically prestigious, fabricated from quality substrates to guarantee their high standards are met.



## Afif

Hapag-Lloyd AG officially named one of its newest vessels – AFIF, which facilitates trade between the UK and the Far East – on the River Thames. The honour of formally naming the vessel was bestowed upon the UK's shipping minister, Nusrat Ghani, at DP World London Gateway, the UK's fastest growing container port.

It can hold 15,000 twenty-foot containers transiting the oceans transporting billions of pounds worth of cargo between Britain and international markets. Afif is 385.5m long and LNG (liquid nitrogen gas) ready, offering the potential for significant reductions in emissions. This supports Hapag-Lloyd AG's environmental principles for a mixed fuel future.

Afif, has unmatched deep-water access and future-proofed technology in a premier location, just a short distance from Central London.



Hapag-Lloyd who are a global leader in container shipping specialising in reefer cargo, dangerous goods and special cargo projects, required our ISM posters, in particular our **'safety procedures before, during and after bunkering'** poster.

Fully researched in line with industry best practice, our posters are designed as a training aid in compliance with the ISM Code. They assist the ship owner/operator to fulfil his obligation by providing practical information on common shipboard tasks. The posters reinforce training and promote discussion among the crew.

## Pride of Hull

Along with her sister ship the Pride of Rotterdam, at 215 metres long the Pride of Hull is among the largest ferries in Europe. The Pride of Hull is certainly one of the biggest in terms of volume, with a gross tonnage of 59,925. But that doesn't stop her doing a top speed of 22 knots on the Hull to Rotterdam route.

With several bars, restaurants, a casino, shops, a cinema and a show lounge spread across her 12 decks, she also has room for 546 cabins, 1,360 passengers and has a lane capacity of 3,300 metres with space for 250 cars and 400 freight vehicles.



P&O Ferries, who are one of the UK's largest ferry operators with a vast fleet of ships serving a network of ferries to France, Belgium, Holland, Ireland, England and Northern Ireland entrusted us to supply them with bespoke, larger than standard, **'Emergency Exit'** and **'Muster station'** signage so they could complete a fire zone onboard the ferry.

The 1st officer of the vessel P&O wanted to complete one complete section of the ship per month, so we had a good system in place for both our production team and the purchasing crew onboard the Pride of Hull.

## FS Aquaris

Their primary ship, the FS Aquarius, is a highly manoeuvrable and technically advanced offshore supply vessel. Specifically designed to support oil and gas exploration and production, the FS Aquarius is consistently on a busy schedule making trips from Scotland to the North Sea every two to three days. The power runs for approximately 550 hours each month; the cargo pumping systems are electrically driven and the main transverse thrusters are too.



Fletcher Group, who operate and manage a modern fleet of Offshore Platform Supply Vessels, which transport fuel, water, drilling fluids, equipment and provisions to offshore facilities, approached us to make and supply the latest **LSA** signs to indicate the exact location or storage of the **life-saving equipment**, the type of equipment, the quantity and any instructions for its correct use. Additionally, they also needed **FES** signs to indicate the exact location of **the fire-fighting equipment**, the type of equipment and any instructions for its effective and safe use. All of which are defined in **A.1116 (30)** and **ISO 24409-2:2017** as well as the supplementary signs of the same standard where they were needed.

## Edda Mistrel

This purpose-built service operation vessels (SOV) is designed to provide safe access for personnel to Wind Turbine Generators (WTG) combined with a high standard of accommodation at sea. A selective catalytic reduction system which uses urea (horse urine!) has helped to reduce the vessel's NOx emissions, making it more environmentally friendly.

Unlike its sister ship, Edda Passat, Edda Mistral has a helipad - and it is the first time a vessel equipped with a helipad will be used for regular maintenance of a Ørsted windfarm. The motion compensated gangway allows technicians to safely walk onto the wind turbines in much rougher seas than when using the traditional method of transferring from a boat. This is vital when operating in an area like Hornsea Project One where weather conditions can be more extreme.

The boat landing has been designed and purpose built to optimize efficiency for the crew transfer vessels working on the project.



The Bridge team from Edda Mistrel at Østensjø Rederi, owns and operates service vessels supporting the maintenance work conducted during the commissioning and operation of offshore wind farms, trusted us to produce stylish yet robust **Deck signage** to be fixed to each deck on board, with each one being slightly different. We supplied them very best **316L marine grade stainless steel plaques** with each plaque being designed and printed to the highest specification.

## Svitzer Sussex

Svitzer Sussex is a multifunctional tugboat with a wide range of applications including escort capabilities, ship manoeuvring, harbour to wage, emergency response and salvage. She provides safe and reliable tailor-made marine services to LNG terminals, ports and oil and gas terminals around the world. The Svitzer Sussex tug is sent to ports with her well trained crew to ensure swift vessel handling and no delays in the supply chain.



Svitzer Marine Ltd, who are a global market leader providing to wage and sustainable marine solutions to customers in 30+ countries across 4 regions, with over 430 vessels, regularly order our **lifebuoy lettering sets**. Our high-grade black vinyl transfers are in line with then **LSA Code Chapter 4.4.9.3**, where a lifeboat that belongs to a ship needs to be marked and is visible from above. Using our state-of-the-art vinyl cutter, we were able to produce **LSA markings** for each of her lifebuoys, marked in block capital letters with the name of the vessel and the name of the port, positioned on the stern of the tug boat.

## Al Thumama

AL THUMAMA (IMO: 9360843) is a LNG Tanker that was built in 2008 (14 years ago) by HYUNDAI HEAVY INDUSTRIES CO. LTD. as Q-Flex vessel, which is propelled by two slow speed diesel engines and is claimed to be more efficient and environmentally friendly than traditional steam turbines. Q-Flex carriers are equipped with an on-board re-liquefaction system to handle the boil-off gas, liquefy it and return the LNG to the cargo tanks. The on-board re-liquefaction system reduces LNG losses, which produces economic and environmental benefits. Overall, it is estimated that she carriers have about 40% lower energy requirements and carbon emissions than conventional LNG carriers.



NYK LNG Shipmanagement (UK) Ltd is one of the World's largest independent owners and managers of Liquefied Natural Gas (LNG) vessel shave approached us many times to supply their LNG Tankers with '**Door Swing, Floor Marking Signs**', constructed from durable, self-adhesive vinyl with protective over laminate providing anti-slip properties. These large floor signs were shipped out on a pallet, direct to the vessel ready to be affixed into position, Infront of the frequently used doors to clearly indicate the opening area on board.



## Karmol LNGT Powership Asia

A first floating storage and regasification unit for Karpowership-Mitsui OSK Lines joint venture KARMOL has arrived in Brazil and is preparing to start supplying regasified LNG to four powerships from July. Gas-to-power projects are proving an increasingly common energy solution for countries without existing power plant infrastructure. While many in-service powerships burn heavy fuel oil, the marine industry's growing focus on sustainability has led to greater interest in LNG-to-power projects. By burning liquefied natural gas, powerships can generate cleaner electricity, reducing the environmental impact of entire cities.



Karpowership-Mitsui OSK Lines, who are the only owner, operator and builder of the first Powership (floating power plant) fleet in the world, came to us with a unique request of supplying their vessel with thousands of safety signs and posters, but with a difference. They needed them onboard in Brazil, within 3 weeks and to all be in **Portuguese language**, as the vessel is due to be stationed in Brazil for the next 4 years. Subsequently we had all the signs and posters required, **translated into Brazilian Portuguese** from our trusted translators and got the signs printed and despatched within the tight timeframe.



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