

Green agenda for commercial marine industry

The commercial marine and civils industry, worth billions to the UK economy, has seen a real shift in its attitude towards the environment and the "green" agenda.

At this year's Seawork, Europe's largest commercial marine exhibition, leading companies will demonstrate the increasingly important part that environmental issues are playing in their and the world's futures:

- A key conference will focus on the development of Hybrid propulsion
- There are a number of launches of new, first of their class, hybrid pilot cutters, semi-autonomous patrol vessels and tugs
- A full range of electric propulsion engines will be on display
- The launch and discussion on the future of 100% recyclable thermoplastic HDPE vessels

Seawork is committed to bringing an environmentally friendly and sustainable exhibition to its visitors and exhibitors. Seawork is working with partners and contractors in 2019 to reduce its carbon footprint and to help the drive towards cleaner, healthier oceans.

As well as supporting Big Blue Ocean Cleanup* as the exhibition's environmental partner they have taken the following steps:

- Single use plastics such as plastic straws and bottles will not be allowed on site
- Water stations on site encouraging visitors and exhibitors to bring their own re-usable water bottles.
- Improved waste recycling and additional bins and recycling bins on site at Seawork.
- Using LED spotlights on the stands which are 80% more efficient than standard spotlights
- Seawork visitor carrier bags will be 100% recyclable sugar cane based.
- Exhibitor welcome packs, sent out before the exhibition, will be digital versions so cutting down on paper, printing and over 500 plastic wallets
- Exhibition carpets are recycled and given a second use, as much as possible

Exhibiting companies will have the opportunity to showcase their own efforts to go greener in a display area supported by Big Blue Ocean Cleanup. Part of that display will enable exhibitors to show what their organisations are doing to make a difference to the planet's oceans, environment and sustainability, showing all exhibition visitors that the Commercial Marine Industry is taking this matter seriously.

*An international organisation that envisages healthy oceans and global marine biodiversity, Big Blue Ocean Cleanup's mission is to drive positive change towards clean oceans that support all marine wildlife and sustainable living.

To see more news on how Seawork and its exhibition contractors are going greener, visit www.seawork.com

Appendix list of 'Green' initiatives, exhibits and services at Seawork 2019

To accompany the 'Green agenda for commercial marine industry' – Thursday 6 June

Seawork is pleased to support the **Ocean 5 Team** by displaying their 5-man rowing boat at the exhibition, ahead of team's challenge to row unaided for 3000 miles across the Atlantic Ocean, to raise awareness and funds for the Plastic Soup Foundation to support the fight against the scourge of plastic in the oceans.

<https://theocean5.com/>

Hybrid vessels

Goodchild Marine Services Limited will unveil 'Leader', the UK's first hybrid pilot cutter and will encourage visitors to engage in a new environmentally friendly social media campaign.

<https://www.seawork.com/news101/exhibitor-news/boat-builders-launch-green-online-challenge>

Wight Shipyards are launching their first hybrid patrol vessel and are also developing a fleet of Arksen vessels. These semi-autonomous, hybrid explorer vessels are responsibly designed to have the least impact on the environment and take adventurers to the most inaccessible corners of the world's oceans.

<https://www.seawork.com/news101/exhibitor-news/environment-focus-for-wight-shipyard>

Baltic Workboats have developed a 44.6m Patrol 45 WP Hybrid vessel featuring a parallel hybrid electric propulsion system that stores power in batteries enabling full electric propulsion at up to 12 knots. The vessel is entered into the Innovations Showcase.

<https://www.maritimejournal.com/news101/seawork/seawork-innovations-showcase-2019>

Offshore Ship Designers (OSD-IMT) has designed a powerful, low-emission compact e-tug to further augment its Azistern series of vessels. The first of the e Tugs was introduced in 2016.

<https://www.seawork.com/news101/seawork-news/environment-spotlight-osd-imt>

Design

BMT's design of two new advanced Crew Transfer Vessels (CTVs) was driven by the need to protect endangered North Atlantic right whales, culminating in the smallest quad jet wind farm vessel that BMT has ever designed. The vessels will be deployed to service Ørsted's Coastal Virginia Offshore Wind Project.

Izmir Shipyard and **Tideman Boats** have both focused extensively on using 100% recyclable thermoplastic HDPE material processing for their RHIB workboats.

Electric Propulsion

Torqeedo's Deep Blue 100i electric propulsion system meets the requirements for larger planing and displacement vessels and is entered into the Innovations Showcase

<https://www.seawork.com/news101/exhibitor-news/torqeedos-electric-propulsion-for-new-viking-lifecraft>

ARS Anglian Diesels Ltd will be showcasing their range of Electric Propulsion Packages covering a power range of 1 KW to 30 KW

<https://www.seawork.com/news101/exhibitor-news/electric-propulsion-at-seawork>

Damen are launching a new 'green solution' for a density meter for use in the dredging industry that can replace the traditional nuclear density meter with a CombiMeter that measures flow electromagnetically and density with electrical resistance tomography.

See: <https://www.seawork.com/news101/exhibitor-news/damen-launches-new-green-density-meter>

E-LED Lighting will launch a new generation of Marine Flood Lighting and will be displaying a full range of LED lighting fixtures.

<https://www.seawork.com/news101/exhibitor-news/new-product-for-e-led-lighting>

Dedicated Conference day focusing on the Future of Hybrid Propulsion

The **Hybrid Propulsion Conference** allows delegates to ask the challenging questions that will help them make an actual difference to their business. These sessions give delegates real insight into operating vessels and opportunity to debate the future of fully electric vessels. The overall message is that hybrid is no longer a concept, it is a reality. "The marine sustainability revolution has begun. It's time to get aboard", Ulf Kanne, Senior Product Manager for High Power Systems at Torqeedo GmbH.

<https://www.seawork.com/seawork-conference/commercial-marine-conference>

On-site catering company Wise no longer uses plastic cutlery, straws, plates or other single use plastics at Seawork. All 'single use' items will be either recyclable or compostable.

Innovations Showcase – Green Entries include:

Ashton Marine Services

Anti-corrosion and lubrication grease LanoShield is a marine grade lanolin that uses a blend of seed oil softeners for protection against rust. A non-toxic, 100% sustainable agent, the natural wool by-product is suitable for sensitive marine environments and has a low impact on ocean ecosystems. It is salt and water-resistant, plus power wash-resistant up to 300 psi. It is also non-leaching, non-evaporating, non-conductive to 70w and acid and alkaline-resistant.

Renolit Maritime

Renolit Dolphins is a biocide-free anti-fouling film that uses “roll-coating” technology. The film has been designed to provide better surface protection than anti-fouling paint as its amphiphilic surface prevents large scope of fouling. Fouling organism can be “washed off” automatically when the vessel moves above 7 knots, helping to reduce drag, save fuel and limit CO2 emissions. The film's simple application also aims to help fleet owners save time.

Stand: Partner organisation Grapefruit Graphics is on stand PG37

SM Group (Europe) / Solar Technology

Lightweight and long-lasting, the LiFOS 68Ah Advanced Lithium Iron Phosphate Battery is ideal for off-grid energy supply to boats. It charges up to 20% faster than the equivalent lead acid or gel batteries and has up to nine times the life cycle. The built-in Battery Management System (BMS) has been specially designed to allow LiFOS to be charged by any battery charger or DC to DC converter. The BMS also protects the battery from deep discharging.

Stand: PY95