

NEWSLETTER

OCTOBER 2021



ICE to Develop a Wind-Powered Ocean Tug

Bluewater Engineering has contracted ICE for concept development of the SKYTUG (www.skytug.co.uk), an innovative class of vessels designed for ocean towing of slow-moving cargo ships. Incorporating Bluewater's patent-pending technology to deploy and control large kite arrays, SKYTUGs will effectively convert high-altitude

wind power into a sea-level towing force. By using that force instead of the towed ships' own propulsion machinery during most of a transoceanic crossing, SKYTUGs will enable cargo ships to trade at normal speed with near-zero emission, without additional crew training or investments.

The SKYTUG Project is supported as part of the UK's Clean Maritime Demonstration Competition, funded by the Department for Transport and delivered in partnership with Innovate UK. The Project will initially focus on developing and assessing the feasibility of the key elements of the SKYTUG concept, with a view to approving the design and building of an integrated demonstrator in 2022/23.



Announced in March 2020, and part of the Prime Minister's Ten Point Plan to position the UK at the forefront of green shipbuilding and maritime technology, the Clean Maritime Demonstration Competition is a £20m investment from government alongside a further c.£10m from industry to reduce emissions from the maritime sector. The programme is supporting 55 projects across the UK, including projects in Scotland, Northern Ireland and from the South West to the North East of England. As set out in the Clean Maritime Plan (2019), Government funding has been used to support early stage research relating to clean maritime. The programme will be used to support the research, design and development of zero emission technology and infrastructure solutions for maritime and to accelerate decarbonisation in the sector.

ICE Returning to Face-to-Face Meetings

Face-to-face conferences and trade shows are starting to take place once again, following nearly two years when such events have either been cancelled, postponed or changed into cyber format. Although the threats of the Covid-19 pandemic are far from over, this is surely a positive sign after a long period of lockdowns, vaccinations, isolation and work-from-home.

Steinar Draegebo, our Chairman & CEO recently represented ICE at the Defence and Security Equipment International (DSEI) conference and trade show in London, one of the world's premier defence industry

events. The same week, he also attended events at the London International Shipping Week. The week before, **Coen Landa, ICE's Business Development Director**, represented ICE at the maritime-focussed Envirotech event in Rotterdam.

ICE has traditionally been exhibiting at between two and four trade shows each year and hopes to be able to do so again soon. As travel restrictions ease, ICE also looks forward to seeing customers in person, and not only through Zoom and MS Teams.



ICE Joins Call to Action for Shipping Decarbonization

The ICE Marine Design Group has become a signatory of the "Call to Action for Shipping Decarbonization" initiative launched in conjunction with the U.N. General Assembly on 22 September. It will be delivered to world governments ahead of COP26, the UN's Climate Change Conference being held this autumn in Glasgow, Scotland.

The Call to Action was developed by a multi-stakeholder taskforce convened by the "Getting to Zero" Coalition (a partnership between the Global Maritime Forum, the World Economic Forum and Friends of Ocean Action) with members from the entire maritime ecosystem including shipping, chartering, finance, ports, and fuel production.

At ICE, we have seen an increasing awareness among our customers of the need to reduce emission of greenhouse gases (GHG), not only to comply with recent regulations but also to meet shipowners' demands to "future proof" their new ships. We

have assisted by retrofit design of exhaust gas scrubber systems in existing ships, and we have designed a solar-powered demonstration vessel and an all-electric ferry. Earlier this year we entered into an agreement with a leading supplier of battery-based Energy Saving Systems

(ESS) that will significantly improve fuel efficiency, particularly of diesel-electric ships. We are keenly following developments that will make alternative "green" fuels practical and safe.



FROM OUR PROJECT PORTFOLIO: CRYSTAL ENDEAVOR - PURPOSE-BUILT POLAR CLASS EXPEDITION YACHT

Scope of Work:

Basic Design Assistance & Detail Design for Endeavor Class ships (PC6 Polar Class).

Engineering Support Services in Stralsund, Germany.

Client: MV WERFTEN, Germany

Year: 2017 -19

Class: DNV



ENGINEERING CERTAINTY

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With a 55-year track record and an annual output having exceeded 700,000 professional engineering man-hours, the International Contract Engineering (ICE) Group is one of Europe's largest independent ship design consultancies. We provide high-calibre multi-discipline design services to yards and owners in the commercial shipping, defence and offshore energy industries, ranging from conceptual studies and Class drawings to detail design and production information. We cover a full range of naval architecture and marine engineering disciplines such as hydrodynamics, structural, mechanical, piping, electrical, instrumentation, outfit and HVAC. Our experience includes gas carriers, passenger vessels, navy and coast guard ships, chemical tankers, drill ships, FSO/FPSOs and a range of other vessels. We also have available proprietary designs that can be adapted to clients' requirements.

With our head office in the Isle of Man and engineering facilities in Romania and Croatia, we provide high quality design and engineering at very competitive prices.