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[International News](#)

UN Member States Sign Agreement on High Seas Treaty

[United Nations High Seas Treaty](#) – on 4 March 2023, after nearly two decades of deliberations, the text of the High Seas Treaty was finally agreed by 190 UN Member States. This treaty will support 30% of the high seas being placed into Marine Protected Areas (MPAs). This historical legislation is important for the protection of the high seas that experience irreparable damage from overfishing and pollution due to lack of protection. The High Seas Treaty also provides the legal framework for access, use and sharing of marine genetic resources and introduces requirements for deep sea activities such as mining to perform an environmental impact assessment (EIA).

IMO PPR 10

As a reminder from our last newsletter, the 10th session of IMO's Subcommittee on Pollution Prevention and Response (PPR 10) is scheduled to take place 24 – 28 April 2023. Biofouling management and a draft protocol for the verification of Compliance Monitoring Devices (CMD's) for using ballast water testing are on the agenda. In the United States, a [public meeting to prepare for PPR 10](#) will take place on 11 April 2023 (in-person and virtually).

Greek Maritime Law is Updated

Changes to modernize the 65 year-old Greek Code of Maritime Law are underway. The changes related to a wide variety of maritime activities, and the [UK P&I Club has published a summary](#) of those that relate to P&I coverage.

Transport Canada Launches BMW Program for Great Lakes St. Lawrence Seaway

[Transport Canada has launched a program](#) to further its efforts to prevent aquatic invasive species in the Great Lakes and St. Lawrence River. The [Ballast Water Innovation Program](#) (BWIP) supports implementation of Transport Canada's 2021 Ballast Water Regulations by providing funding to implement projects designed to help industry address the operational and technical challenges for BWMS operating in these regions. Applications for the BWIP may be submitted until 10 May 2023.

[United States News](#)

EPA Published Reminder of VGP Compliance

The [US EPA published a reminder](#) to ship owners and operators about the need to comply with the 2013 Vessel General Permit (VGP). Requirements to comply with the VGP include effluent (or "discharge") limitations, effluent management, monitoring, corrective action, reporting and recordkeeping. Although new [legislation under VIDA](#) was signed into law in 2018, owners and operators are reminded that the 2013 VGP remain in effect until the new regulations under VIDA are developed by the EPA and USCG. The EPA's reminder also provided several examples of

violations and enforcement actions taken, with financial implications to the companies up to \$89,500 USD in penalties and projects to curtail environmental water quality impacts.

USCG Climate Change Strategy

The USCG has published its climate change strategy, The [U.S. Coast Guard Climate Framework](#). The framework is aimed at preparing and managing the challenges that climate change presents, and collaborating with stakeholders to enhance and ensure maritime safety.

USCG Urges Shipowners to be Aware of Environmental Regulations

Due to the rapid spread and devastating impacts of a coral disease outbreak, referred to as stony coral tissue loss disease (SCTLD), the USCG is urging ship owners and operators to be familiar with and implement the USCG and US EPA regulations for ballast water management, as well as biofouling management and cleaning requirements. USCG ballast water management: [33 CFR Part 151](#) and [46 CFR Part 162.060](#); USCG biofouling management: [33 CFR Part 151.2050](#); US EPA [2013 Vessel General Permit](#) (VGP). [LEARN MORE HERE](#).

USCG Ballast Water Treatment System Type Approvals

Ballast Water Treatment System Type Approvals – the USCG has not recently issued any new BWMS type approvals. There are currently six (6) applications under review, either for new type approval or amendments to existing type approvals. The USCG maintains a [list of approved systems and those under review for type approval](#). Type Approval Certificates for all USCG approved BWMS are available [HERE](#).

Other News

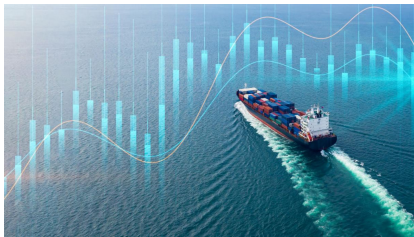
Panama Canal Authority Implements a Green Vessel Classification System

The Panama Canal Authority is committed to reducing its carbon footprint by implementing the [Green Vessel Classification System](#). Starting May 1, vessels that intend to transit the Canal will be required to provide information on their energy efficiency certificates, bow thruster ratio, and type of fuel used. This move is part of the Panama Canal Green Route Plan 2050, which aims to make the Canal more environmentally friendly and contribute to its Carbon Neutrality Commitment by 2030. This mandatory documentation will not only benefit the environment but also ensure a more sustainable future for the shipping industry.



EcoOne® Maritime Technology Group

Armada Technologies, Sinotech and NanoVapor are affiliates of the EcoOne® Marine Technologies Group focused in energy efficient, innovative, environmentally-friendly maritime technologies.



Energy Efficient Ships: A Vital Component to Achieving Maritime Net Zero Emissions

Investing now in energy-efficient technologies pays big dividends down the road! Learn more about how you can achieve your emission reduction goals by scheduling a "lunch & learn" workshop either virtually or in your office on, "Energy Efficient Ships: A Vital Component to Achieving Maritime Net Zero Emissions". Contact us [HERE](#) to schedule your workshop.

Ecochlor will be presenting a series of workshops at the [Hong Kong Shipowners Association](#) on 19 April 2023 at the United Conference Center, Hong Kong from 16:00 - 18:00. To receive get more information about the event contact [Karan Szeto](#), RBDM Hong Kong, China & Singapore.

Armada Technologies Air Lubrication System HYKAT Testing

Alex Routledge, CEO discusses [Armada's 2nd Generation "passive air lubrication system" \(PALS\)](#) testing in the Hydrodynamic & Cavitation Tunnel



(HYKAT) at HSVA, one of the world's leading cavitation testing facilities. Testing results showed a stable, well engaged and high-quality rigid carpet of aerated water in the boundary layer and significant on-plate reduction was recorded. The Armada team documented a drag reduction "sweet spot" that could be targeted where two identified hydrodynamic phenomena were effectively balanced within each and every operating condition.



Sinotec CCS has Type Approval from LR, NK, BV

[SINOTECH CCS](#) has obtained Classification Type AiP from LR, NK, BV for their innovative marine carbon capture & storage system (CCS). Vessels with fitting the SINOTECH CCS system can significantly reduce marine carbon emission and improve CII and ESG for shipping companies.



Safety4Sea Interview

90 SECONDS WITH ECOCHLOR CEO ANDREW MARSHALL: Where do you see the market going in terms of timeframes & BWMS Makers Competition up to 2025?



[Ecochlor in the News](#)

[Clean Shipping International](#)

Spring Issue 2023

[Ecochlor: One-stop Shop for Green Solutions](#)

In an effort to meet new regulations, shipowners worldwide are searching for solutions to comply with the EEXI and CII scores. To meet this need, Ecochlor is bringing innovative, energy efficient technologies together under one roof to



offer greater options to shipowners looking to lower their carbon footprint.

Article: Click [HERE](#) to read the entire article



Tanker Operator

January - March 2023

Hull Air Lubrication with No Compressors

A second generation hull air lubrication system (ALS) is on the horizon. It has no compressors, would require lower power consumption than the first generation, and has a tight control of bubble dynamics regardless of vessel type, speed, or weather conditions.

Article: Click [HERE](#) to read the article by Andrew Marshall, CEO

Webinars, Exhibits and Conferences



Nor-Shipping

EXHIBITION STAND: GERMAN PAVILION CO2-14

Oslo, Norway

6 - 8 June 2023

Attending:

Panos Smyroglou, VP Sales & Marketing, panos.smyroglou@ecochlor.com Sören Scheid, Regional Business Development Manager, soren.scheid@ecochlor.com

WORKSHOP SERIES at Nor-Shipping: Sign up [HERE](#) to receive a schedule of our workshop series on Carbon, Capture & Storage, Air Lubrication Systems, Energy-efficient Ballast Water Management Systems, Gas-freeing Tank Technology at Nor-Shipping

Hong Kong Shipowners Association

United Conference Center, Hong Kong

16:00 - 18:00

19 April 2023

Attending: David Swindells, Director of Sales & Marketing, david.swindells@ecochlor.com

Karan Szeto, RBDM Singapore, Hong Kong, China, karan.szeto@ecochlor.com

Phil Gao, Sinotech Vice General Manager, phil.gao@sinotechm.com

Sea Asia

Marina Bay Sands, Singapore

27 - 30 April 2023

Attending: David Swindells, Director of Sales & Marketing, david.swindells@ecochlor.com

Karan Szeto, RBDM Singapore, Hong Kong, China, karan.szeto@ecochlor.com

OTC Houston

Houston, Texas

1 - 4 May 2023

Pending Attendance: Sören Scheid, Regional Business Development Manager, soren.scheid@ecochlor.com

Bari-Ship

Imabari, Ehime

24 - 27 May 2023

Pending Attending: David Swindells, Director of Sales & Marketing, david.swindells@ecochlor.com

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