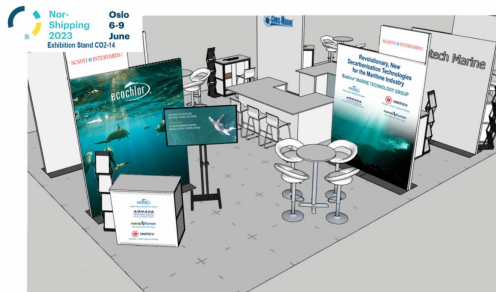




Visit Our Website

Latest News



### Join us at Nor-Shipping Stand C02-14!

We are holding workshops at Nor-Shipping Exhibition Stand C02-14 (German Pavilion) that are a must-attend for anyone looking to achieve lower emission goals and reduce their carbon footprint. Our experts will be on hand to answer your questions and provide valuable insights into the latest developments in decarbonization. Discover how **Sinotech** (Carbon, Capture & Storage), **Armada Technologies** (Hull Air Lubrication System), and the **EcoOne Ballast Water Management System** (Energy-

Efficient BWMS Equipment) can help you achieve your 2030 emission goals through low power and simple to operation system technologies. Click [HERE](#) for the workshop schedule.

## International News

### IMO PPR 10 Summary of Topics

IMO's Sub-Committee on Pollution Prevention and Response held its 10<sup>th</sup> session (PPR 10) from 24 – 28 April 2023. Many topics were covered during PPR 10, including, but not limited to:

- Biofouling management – draft guidelines were approved and will be reviewed during MEPC 80 for approval.
- Ballast water management –
  - Unified Interpretation for the IBWMC and “date of construction” pertaining to a major conversion to implement the BWMC Convention
  - The draft protocol for verification of Compliance Monitoring Devices (CMDs) for ballast water testing was approved and will be considered during MEPC 80 for approval
- Black carbon emissions
- Amendments to the IBC Code
- Hazardous and Noxious Substances (HNS)
- Gasification of waste systems and amendments to MARPOL Annex VI, Regulation 16
- Amendments to MARPOL Annex VI and the NOx Technical Code
- Carriage of heavy fuel oil in Arctic waters
- IBTS Guidelines and amendments to the IOPP certificate and oil record book
- Revision of MARPOL Annex IV and associated guidelines
- Marine plastic litter
- Revision of guidelines for Inventory of Hazardous Materials (IHM)

The report of PPR 10 will be available on [IMO DOCS](#) when finalized. PPR 11 is tentatively scheduled for 19 to 23 February 2024.

### Speed Restrictions in Gulf of St. Lawrence

Canada has implemented revised speed restrictions in the Gulf of St. Lawrence to provide greater protection to North Atlantic right whales from collisions with vessels. Refer to [Ship Safety Bulletin No. 05/2023](#) (11 April 2023).

## United States News

### **2022 Port State Control Report - 67 Deficiencies in BWMS**

The US Coast Guard (USCG) Office of Commercial Vessel Compliance (CVC) has published the [2022 Port State Control Annual Report](#). Inspections for compliance with ballast water management regulations was part of the USCG Enhanced Exam Program during 2022 and resulted in 67 deficiencies, a 25% increase over the prior year, with the majority of deficiencies relating to reports of inoperable BWMS, ballast water management plans and reporting ballast water practices.

### **CVC Announced New Engine Compliance**

The Coast Guard Office of Commercial Vessel Compliance (CVC) announced that [Policy Letter 21-01](#) and [CVC-WI-014\(1\)](#) will be cancelled as of 31 December 2023 and all new engines installed on ships must comply with the applicable MARPOL Annex VI Regulation 13 Tier III requirements at that time.

### **California At Berth Enforcement Notice**

Ecochlor previously provided an update on the new California Air Resources Board (CARB) compliance requirements that went into effect on 1 January 2023 for ocean-going vessels as part of the "At Berth Regulation". The regulation required ships to report compliance measures to CARB within 30 days after visiting the terminal. California recently issued an Enforcement Notice, [At Berth Enforcement Notice \(30 March 2023\)](#), which extended the reporting deadline to 1 May 2023, and also provided compliance guidance. Read the notice here and also visit the [CARB website for more information](#) and Frequently Asked Questions.

### **EPA Releases Draft of National Strategy to Prevent Plastics Pollution**

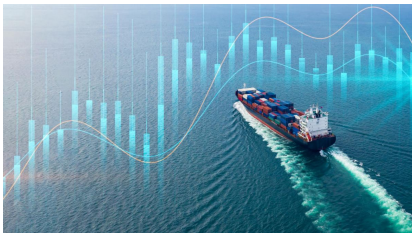
The U.S. Environmental Protection Agency (EPA) Office of Resource Conservation and Recovery (ORCR) released the draft [National Strategy to Prevent Plastic Pollution](#) (EPA 530-R-23-006) (Draft Strategy) on April 21, 2023. The release of the Draft Strategy accompanied the announcement of a White House Interagency Policy Committee on Plastic Pollution and Circular Economy.<sup>1</sup> The new committee will "coordinate federal efforts related to plastic pollution and related environmental justice and equity initiatives," according to a [White House fact sheet](#).

### **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 seven (7) 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](#).

## **EcoOne<sup>®</sup> Maritime Technology Group**

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



### **Free "Lunch & Learn" Training on Decarbonization Options for Shipowners**

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.



## Armada Technologies Air Lubrication System HYKAT Testing

ARMADA TECHNOLOGIES was awarded the "Innovative StartUp of the Year" and "Green StartUp" at the StartUp Awards. The StartUp Awards is a collaboration between the founders of the Great British Entrepreneur Awards - an established program nationally receiving over 5,000 applications annually - and the Wales Start-Up Awards, the only national and regional awards currently celebrating new

businesses in the UK. The StartUp Awards celebrates incredible individuals who identified a need, had a great idea, and took the leap to launch new products and services.

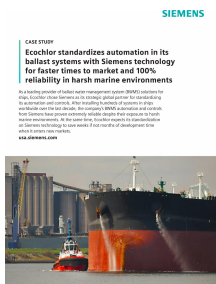


## Sinotech Offers Low Energy CCS Alternative with Flexible Options

Sinotech's Carbon Capture and Storage (CCS) solution offers the ideal combination of flexibility and affordability. With various design options available, including scrubber only, scrubber and CCS, or CCS with an already installed scrubber, you can easily customize the solution to meet your specific requirements. Sinotech's low

energy CO<sub>2</sub> capture technology features cutting-edge low temperature amine stripping, an efficient energy recovery strategy resulting in a low energy 'penalty'. Invest in a cost-effective and smart solution with Sinotech's CCS.

## Ecochlor in the News



### Siemens: Ecochlor Case Study

Summer 2023

**Ecochlor standardizes automation in its ballast systems with Siemens technology for faster times to market and 100% reliability in harsh marine environments**

After installing hundreds of systems in ships worldwide over the last decade, the company's BWMS automation and controls from Siemens have proven extremely reliable despite their exposure to harsh marine environments. At the same time, Ecochlor expects its standardization on Siemens technology to save weeks if not months of development time

when it enters new markets. Click [HERE](#) to read the entire case study.

## Webinars, Exhibits and Conferences



**Nor-Shipping**  
**EXHIBITION STAND: GERMAN PAVILION CO2-14**  
Oslo, Norway  
6 - 8 June 2023

Attending:

Sören Scheid, Regional Business Development Manager, [soren.scheid@ecochlor.com](mailto:soren.scheid@ecochlor.com)

Michael Dimos, GreenTech Business Developer, [athens@ecochlor.com](mailto:athens@ecochlor.com)

**WORKSHOP SERIES at Nor-Shipping: Sign up [HERE](#) to receive a schedule of our workshop series on reaching decarbonization goals. Topics include: Carbon, Capture & Storage; Hull Air Lubrication Systems; and Energy-efficient Ballast Water Management Systems.**

**Ecochlor, Inc.**

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