ICNAME | Innovation & Cooperation in Naval Architecture & Marine Engineering Association

Maritime Information Brief

（October 2026）

Published by ICNAME Office 1 Nov. 2026

Contents

ICNAME Members News 3

Heilongjiang Development and Reform Commission Visits HEU to Advance Polar Technology Innovation 3

HEU Presents “AI + Ship and Ocean Engineering” Vision at Waigaoqiao Shipbuilding Development Forum 4

8th China–Pakistan Marine Information Technology Forum Held at HEU.....4

CCS Supports World’s First Commercial Green-Ammonia Ship-to-Ship Bunkering Operation 4

CCS Awards China’s First AiP for Shared Mooring Design for Floating Wind Farms 5

CCS Supports First Zero-Carbon Container Shipping Route between Guangzhou and Hong Kong.....5

CCS Holds Technical Workshop on Deep-Water Floating Offshore Wind Platforms.....5

CCS Showcases Green, Intelligent and Digital Maritime Technologies at China Marine Economy Expo.....6

Bureau Veritas Supports Delivery of China’s First Privately Built 175,000-cbm Membrane LNG Carrier 6

Bureau Veritas Supports Landmark 16 MW Deep-Water Floating Wind Project 6

Bureau Veritas Celebrates Naming of Wind-Assisted Aframax Tanker *Albert Park*.....7

Bureau Veritas Launches Cruise Center of Excellence in Miami 7

Strathclyde Launches Research Project on Kelp Farms for Offshore Wind Wave Attenuation 7

Other Maritime News 9

DNV Becomes First Non-Japanese Organization Authorized to Apply Floating Offshore Wind Rules in Japan 9

DNV Advances Ship-Based CO_2 Transport and Direct Offshore Injection Concept 9

Lloyd's Register Launches New Guidance for Alternative-Fuel and Energy-Saving Ship Retrofits 9

Lloyd's Register, Shell and GTT Explore Hybrid-Electric 200,000-cbm LNG Carrier 10

Lloyd's Register and Sagar Defence Advance Certification of Autonomous Maritime Systems 10

CMA CGM Selects Wärtsilä Dual-Fuel Engines for Twelve 18,000-TEU Container Ships 10

Wärtsilä Engines Selected for Two Additional Inland Waterway Tugs in Brazil 11

RINA and China Merchants Energy Shipping Partner on AI-Driven Ship Operations 11

RINA and PTT Expand Cooperation on Maritime Decarbonization and Alternative Fuels 11

ABS and U.S. Department of Energy Cooperate on Maritime Nuclear Technology 11

Brazil Delivers Its First Domestically Built Hybrid Platform Supply Vessel 12

ABS Approves 1,700-TEU Fully Battery-Powered Containership Concept 12

ClassNK Shares Operational Experience with Wind-Assisted Propulsion Systems 12

ClassNK Publishes Framework for Onboard Carbon Capture Systems 13

ABB to Power Third Hybrid-Electric Ferry for Washington State Ferries 13

ICNAME Members News

HEU and East China Sea Bureau Explore Cooperation in Deep-Sea Technology and Marine Equipment

A delegation from the East China Sea Bureau of China's Ministry of Natural Resources visited Harbin Engineering University to discuss strategic cooperation in marine science and technology. The two sides explored opportunities in marine equipment applications, deep-sea exploration, environmental monitoring, innovation platforms and high-level talent cultivation. HEU highlighted its achievements in intelligent underwater vehicles, underwater acoustics and marine engineering, while both parties expressed their intention to jointly support major national marine science and technology programs.

Source: Harbin Engineering University News
Link: https://news.hrbeu.edu.cn/info/1141/89714.htm

Heilongjiang Development and Reform Commission Visits HEU to Advance Polar Technology Innovation

A delegation from the Heilongjiang Provincial Development and Reform Commission visited Harbin Engineering University to review the university's progress in polar science, technology and equipment. Discussions focused on polar equipment, innovation platforms and the local transformation of research achievements. HEU emphasized its long-standing strengths in naval architecture, ocean engineering and polar technologies, and both sides agreed to deepen cooperation in strategic scientific infrastructure and advanced polar equipment.

Source: Harbin Engineering University News
Link: https://news.hrbeu.edu.cn/info/1141/89731.htm

HEU Establishes Joint Laboratory for Marine Information and Unmanned Equipment

Harbin Engineering University and the China Electronics Standardization Institute jointly established a laboratory for marine information and unmanned equipment during the New Industry Standardization Leadership Forum in Beijing. HEU President Yin Jingwei presented the university's progress in distributed underwater acoustic technologies and related industrial standards. The new laboratory will focus on deep-sea distributed acoustics, equipment interoperability, positioning accuracy, communication interfaces and standardization for marine information and unmanned

systems.

Source: Harbin Engineering University News
Link: https://news.hrbeu.edu.cn/info/1141/89790.htm

HEU Presents "AI + Ship and Ocean Engineering" Vision at Waigaoqiao Shipbuilding Development Forum

Harbin Engineering University was invited to the 2026 Waigaoqiao Shipbuilding Development Forum, held aboard China's second domestically built large cruise ship, *Adora Flora City*. HEU Vice President Zhao Yuxin delivered a keynote speech on AI-driven innovation in ship and ocean engineering design and talent cultivation. He emphasized the need to integrate artificial intelligence throughout ship design, engineering education and industrial collaboration to support the intelligent transformation of the maritime sector.

Source: Harbin Engineering University News
Link: https://news.hrbeu.edu.cn/info/1141/89801.htm

8th China–Pakistan Marine Information Technology Forum Held at HEU

The 8th China–Pakistan Marine Information Technology Forum was held at Harbin Engineering University from October 15 to 18. Experts, researchers and students from China and Pakistan discussed underwater sensing and communications, additive manufacturing, the blue economy and maritime education cooperation. Institutions from both countries also explored joint research, talent cultivation and industry–academia collaboration, further strengthening long-term cooperation in marine information technologies.

Source: Harbin Engineering University News
Link: https://news.hrbeu.edu.cn/info/1141/89815.htm

CCS Supports World's First Commercial Green-Ammonia Ship-to-Ship Bunkering Operation

The world's first commercial green-ammonia ship-to-ship bunkering operation was completed at the Xiushan anchorage in Zhoushan, China. The dedicated ammonia bunkering vessel *Shenghang Yongle* supplied green ammonia to the 210,000-dwt bulk carrier *Mineral Europa*. China Classification Society Zhejiang Branch provided survey and technical support for the vessel's ammonia bunkering conversion, including

safety assessment, equipment testing and operational verification. The project marks a major step toward commercial-scale zero-carbon marine fuel supply.

Source: China Classification Society
Link:
https://www.ccs.org.cn/ccswz/articleDetail?columnId=20190000200000055&id=202610150217216630

CCS Awards China's First AiP for Shared Mooring Design for Floating Wind Farms

China Classification Society awarded Tsinghua University China's first Approval in Principle for a shared mooring design concept for floating offshore wind farms. The innovative "large triangle" shared mooring configuration is intended to support large-scale deep-water floating wind developments. CCS reviewed the design principles, coupled dynamic analysis, safety margins and engineering feasibility, providing technical support for future demonstration and commercial deployment.

Source: China Classification Society
Link: https://www.ccs.org.cn/ccswz/articleDetail?id=202610190484051739

CCS Supports First Zero-Carbon Container Shipping Route between Guangzhou and Hong Kong

The first zero-carbon container shipping route between Guangzhou and Hong Kong entered operation with the intelligent electric container vessel *Suigang Dianhang 02*. Surveyed by China Classification Society, the vessel can carry 240 TEU and uses a containerized battery system supporting both battery swapping and direct charging. CCS estimates that each vessel can reduce carbon emissions by more than 550 tonnes annually and approximately 19,000 tonnes over its lifecycle.

Source: China Classification Society
Link: https://www.ccs.org.cn/ccswz/articleDetail?id=202610201092205474

CCS Holds Technical Workshop on Deep-Water Floating Offshore Wind Platforms

China Classification Society organized a technical workshop in Tianjin focusing on key technologies and standards for deep-water floating offshore wind platforms. Experts from owners, research institutes, design organizations, wind turbine manufacturers and equipment suppliers discussed floating foundation design, mooring systems, structural

safety, engineering verification and classification requirements. The workshop aims to strengthen the technical and regulatory foundation for large-scale floating offshore wind development.

Source: China Classification Society
Link: https://www.ccs.org.cn/ccswz/articleDetail?columnId=20190002000000096&id=202610220226366276

CCS Showcases Green, Intelligent and Digital Maritime Technologies at China Marine Economy Expo

China Classification Society participated in the 2026 China Marine Economy Expo in Shenzhen, showcasing technologies related to green ships, autonomous navigation, intelligent welding and digital maritime systems. During the event, CCS issued approvals for a pure-electric intelligent container ship design, intelligent welding equipment and a ship intelligent navigation support system. The organization also received the expo's Industry Leadership Award.

Source: China Classification Society
Link: https://www.ccs.org.cn/ccswz/articleDetail?id=202610231010223420

Bureau Veritas Supports Delivery of China's First Privately Built 175,000-cbm Membrane LNG Carrier

The 175,000-cbm LNG carrier *Yangze LNG 01*, built by Yangzijiang Xinfu Shipbuilding, was successfully delivered with classification and technical support from Bureau Veritas Marine & Offshore. The vessel uses a GTT Mark III Flex membrane containment system and dual-fuel propulsion. The delivery marks the first large membrane-type LNG carrier built by a Chinese private shipbuilder and represents another milestone in China's high-end LNG carrier construction capability.

Source: Bureau Veritas Marine & Offshore
Link: https://marine-offshore.bureauveritas.com/newsroom/bv-supports-successful-delivery-175000-cbm-lng-carrier-yangzijiang-xinfu

Bureau Veritas Supports Landmark 16 MW Deep-Water Floating Wind Project

Bureau Veritas, through MatthewsDaniel, provided Marine Warranty Survey services for the *Haiyou Anlan* floating offshore wind project. The 16 MW tension-leg floating wind platform operates in water depths of approximately 136 meters and about 136

kilometers offshore. BV supported critical transportation, installation, positioning and hook-up operations, contributing to the safe deployment of one of the world's most advanced deep-water floating wind platforms.

Source: Bureau Veritas Marine & Offshore
Link: https://marine-offshore.bureauveritas.com/newsroom/bureau-veritas-supports-landmark-deep-water-floating-wind-project-through-marine-warranty

Bureau Veritas Celebrates Naming of Wind-Assisted Aframax Tanker *Albert Park*

Union Maritime's 114,000-dwt Aframax product tanker *Albert Park*, classed by Bureau Veritas, incorporates three BAR Technologies WindWings rigid sails. The wind-assisted propulsion system provides a total sail area of 738 square meters and can reduce main-engine load, fuel consumption and emissions. Under favorable conditions, the vessel is expected to save up to 4.5 tonnes of fuel and approximately 14.1 tonnes of CO_2 emissions per day.

Source: Bureau Veritas Marine & Offshore
Link: https://marine-offshore.bureauveritas.com/newsroom/bureau-veritas-celebrates-naming-union-maritimes-wind-assisted-aframax-product-tanker

Bureau Veritas Launches Cruise Center of Excellence in Miami

Bureau Veritas Marine & Offshore launched a Cruise Center of Excellence in Miami to provide specialized technical support to cruise operators, designers and shipyards. The center will bring together expertise in decarbonization, wind propulsion, LNG technologies, fire safety, evacuation analysis, digitalization and cybersecurity. The initiative strengthens BV's global technical network and supports the development of safer, more efficient and sustainable cruise ships.

Source: Bureau Veritas Marine & Offshore
Link: https://marine-offshore.bureauveritas.com/newsroom/bureau-veritas-launches-cruise-center-excellence-miami

Strathclyde Launches Research Project on Kelp Farms for Offshore Wind Wave Attenuation

The University of Strathclyde launched a new research opportunity investigating how floating kelp farms could be used as nature-based breakwaters for offshore wind farms. The research combines wave-tank experiments at the Kelvin Hydrodynamics

Laboratory, computational fluid dynamics modelling and field data from kelp farms. The project aims to determine whether cultivated kelp can reduce wave loads, improve offshore access windows and reduce structural fatigue in floating offshore wind systems.

Source: University of Strathclyde
Link:
https://www.strath.ac.uk/studywithus/postgraduateresearchphdopportunities/engineering/navalarchitectureoceanmarineengineering/experimentalnumericalanalysisoffloatingkelpfarmsforwaveattenuationinoffshorewind/

Other Maritime News

DNV Becomes First Non-Japanese Organization Authorized to Apply Floating Offshore Wind Rules in Japan

DNV became the first non-Japanese Recognized Organization authorized by the Japanese Flag Administration to apply classification rules for floating offshore wind facilities. The authorization allows DNV to bring international floating-wind experience, technical standards and independent assurance capabilities to Japan's rapidly developing offshore wind sector.

Source: DNV
Link: https://www.dnv.com/news/2026/DNV-receives-authorization-for-floating-offshore-wind-rules-in-japan/

DNV Advances Ship-Based CO_2 Transport and Direct Offshore Injection Concept

DNV issued a Statement of Feasibility for a carbon transport concept developed by Aker BP and Höegh Evi. Under the concept, shuttle carriers would transport liquefied CO_2 from European industrial sources and inject it directly into subsea storage wells at the Atlas project on the Norwegian Continental Shelf. The proposed system could avoid the need for new onshore terminals and permanent offshore platforms.

Source: DNV
Link: https://www.dnv.com/news/2026/dnv-assessment-advances-aker-bp-and-hoegh-evis-ship-based-co2-transport-and-offshore-injection-concept/

Lloyd's Register Launches New Guidance for Alternative-Fuel and Energy-Saving Ship Retrofits

Lloyd's Register published new guidance addressing the growing complexity of retrofitting existing ships with alternative fuels and energy-saving technologies. The document covers LNG, methanol, ethanol, ammonia, hydrogen and LPG conversions, together with wind-assisted propulsion and air lubrication systems. It emphasizes early technical planning, crew training, safety assessment and cooperation among owners, yards and classification societies.

Source: Lloyd's Register
Link: https://www.lr.org/en/knowledge/press-room/press-listing/press-release/2026/lr-launches-new-guidance-to-help-shipowners-navigate-the-growing-complexity-of-retrofit-projects/

Lloyd's Register, Shell and GTT Explore Hybrid-Electric 200,000-cbm LNG Carrier

Lloyd's Register, Shell and GTT launched a Joint Development Project for a 200,000-cbm LNG carrier combining hybrid-electric propulsion and GTT NEXT1 cargo containment technology. The project will assess battery integration, propulsion redundancy, system architecture and total cost of ownership, while exploring how larger-capacity LNG carriers can improve transport efficiency and operational flexibility.

Source: Lloyd's Register
Link: https://www.lr.org/en/knowledge/press-room/press-listing/press-release/2026/lloyds-register-shell-and-gtt-to-explore-hybrid-electric-200000m-lng-carrier-concept/

Lloyd's Register and Sagar Defence Advance Certification of Autonomous Maritime Systems

Lloyd's Register and Sagar Defence Engineering signed an agreement to develop practical pathways for certification and operational acceptance of autonomous and remotely operated maritime systems. The collaboration will focus on verification, validation, testing, safety cases, cyber resilience and regulatory compliance, helping move maritime autonomy from experimental systems toward approved operational deployment.

Source: Lloyd's Register
Link: https://www.lr.org/en/knowledge/press-room/press-listing/press-release/2026/sagar-defence-and-lr-join-forces-to-advance-certification-of-autonomous-maritime-systems/

CMA CGM Selects Wärtsilä Dual-Fuel Engines for Twelve 18,000-TEU Container Ships

Wärtsilä will supply 36 Wärtsilä 34DF dual-fuel engines for twelve new 18,000-TEU container ships being built for CMA CGM at Jiangnan Shipyard. The vessels will operate on LNG and are intended to combine high fuel efficiency, reduced emissions and flexible deep-sea operations. Wärtsilä will also provide seals, bearings and associated propulsion equipment.

Source: Wärtsilä
Link: https://www.wartsila.com/sgp/media/news/06-10-2026-cma-cgm-selects-wartsila-34df-engines-to-support-efficient-lower-emission-operations-for-12-new-

container-vessels-3797658

Wärtsilä Engines Selected for Two Additional Inland Waterway Tugs in Brazil

Wärtsilä will supply engines for two new inland waterway pusher tugs being built by Estaleiro Rio Maguari for LHG Mining. Each vessel will use three Wärtsilä 20 engines and operate on the Paraguay–Paraná waterway. The engines can use biodiesel blends, supporting fuel flexibility while improving reliability and efficiency in demanding river transport operations.

Source: Wärtsilä
Link: https://www.wartsila.com/media/news/20-10-2026-wartsila-engines-selected-for-two-additional-inland-waterway-tugs-in-brazil-3803541

RINA and China Merchants Energy Shipping Partner on AI-Driven Ship Operations

China Merchants Energy Shipping and RINA signed a Memorandum of Understanding covering maritime safety, digitalization, emissions management and next-generation vessel technologies. The collaboration will explore artificial intelligence for predictive maintenance, energy efficiency and operational decision-making, as well as alternative fuels, automation and smart-shipping technologies.

Source: RINA
Link: https://www.rina.org/en/media/Press/2026/10/12/ai-driven-ship-operations

RINA and PTT Expand Cooperation on Maritime Decarbonization and Alternative Fuels

RINA and Thailand's PTT signed strategic agreements to explore research and technology cooperation in alternative and low-carbon fuels, vessel electrification, digitalization, carbon management and hydrogen readiness. The collaboration combines engineering, certification and assurance capabilities to support the safe deployment of emerging technologies across the maritime and energy sectors.

Source: RINA
Link: https://www.rina.org/en/media/press/2026/10/06/rina-ptt-mou

ABS and U.S. Department of Energy Cooperate on Maritime Nuclear Technology

ABS and the U.S. Department of Energy's Office of Nuclear Energy signed a

Memorandum of Understanding to advance commercial nuclear applications at sea. The cooperation covers floating nuclear power, nuclear-powered vessels, nuclear transportation corridors and the shipyard and port infrastructure required to support maritime nuclear technology.

Source: ABS
Link: https://ww2.eagle.org/en/newsdetail.d98ebb7b.html

Brazil Delivers Its First Domestically Built Hybrid Platform Supply Vessel

Starnav Elektra, the first hybrid platform supply vessel designed and built in Brazil, was delivered to ABS class. The 92.1-meter vessel incorporates a 1,322 kWh lithium iron phosphate battery system and DP2 capability. It is the first of a planned series of battery-hybrid offshore support vessels and will operate under a long-term charter for Petrobras.

Source: ABS
Link: https://ww2.eagle.org/en/newsdetail.9312dac0.html

ABS Approves 1,700-TEU Fully Battery-Powered Containership Concept

ABS granted Approval in Principle to Hanwha Power for a 1,700-TEU containership concept using approximately 151 MWh of battery energy storage. The design features containerized, swappable battery modules integrated with an electric propulsion system. The concept demonstrates the potential for large-scale battery-electric propulsion and closer integration between ships and port charging infrastructure.

Source: ABS
Link: https://ww2.eagle.org/en/newsdetail.3f883625.html

ClassNK Shares Operational Experience with Wind-Assisted Propulsion Systems

ClassNK organized an industry seminar with major Japanese shipping companies to examine the practical operation of Wind-Assisted Propulsion Systems. The event focused on performance assessment, real-world operational challenges and future development. As installations increase across the global fleet, reliable measurement of fuel and emissions savings is becoming increasingly important.

Source: ClassNK
Link: https://www.classnk.or.jp/hp/en/news.aspx?id=15802&layout=1&type=p

ClassNK Publishes Framework for Onboard Carbon Capture Systems

ClassNK released the *Onboard Carbon Capture Systems Implementation Framework*, providing practical guidance for shipowners and operators evaluating onboard CO_2 capture. The framework covers shipboard capture, CO_2 handling and storage, infrastructure requirements, regulatory considerations and methodologies for quantifying verified emissions reductions across the carbon-capture value chain.

Source: ClassNK
Link: https://www.classnk.or.jp/hp/en/news.aspx?id=15782&layout=1&type=p

ABB to Power Third Hybrid-Electric Ferry for Washington State Ferries

ABB received authorization to provide an integrated hybrid-electric power and propulsion system for a third new ferry in Washington State Ferries' fleet modernization program. The solution will incorporate ABB's Onboard DC Grid and Power and Energy Management System to optimize battery integration, energy distribution and fuel efficiency. Washington State Ferries plans to introduce up to 16 new hybrid-electric vessels by 2040.

Source: ABB
Link: https://www.abb.com/global/en/news/139961/abb-to-power-third-washington-state-ferries-hybrid-electric-newbuild-vessel