

BUREAU VERITAS

# MARINE & OFFSHORE

AT A GLANCE



BUREAU  
VERITAS

Bureau Veritas Marine & Offshore is a leading classification society and offshore safety and verification body. We support the marine and offshore industries with practical advice, tools and technology to help run safe, sustainable and high performing businesses.

We are part of the Bureau Veritas Group, a leading provider of testing, inspection and certification services to all global economic sectors, laying foundations of responsible progress.

# SHAPING A BETTER MARITIME WORLD

Marine and offshore industries are central to the global economy. Underpinning trade and energy production, they sustain human development.

Today, these industries are changing, both in practice and in mindset. The ocean is viewed as a stakeholder in its own right, to be valued and respected by the industries who rely on it.

As a classification society, protecting the ocean has formed part of Bureau Veritas' core mission for generations. We are now going further. Building on our heritage, we offer a holistic understanding of the threats faced by marine environments, and the steps needed to counteract them.

## THIS IS HOW WE SHAPE A WORLD OF TRUST

THE WORLD'S LARGEST TESTING, INSPECTION AND CERTIFICATION COMPANY INVOLVED IN SHIP CLASSIFICATION

**80,000**  
EMPLOYEES

**140**  
COUNTRIES

**400,000**  
CLIENTS WORLDWIDE

WITH LEADERSHIP POSITIONS IN ENERGY, TRADE AND SUSTAINABILITY



LEADER IN ISO CERTIFICATION



#1 WORLDWIDE IN CONTAINER CERTIFICATION



PARTNER TO RENEWABLE ENERGY PROJECTS



WORLD-CLASS SUPPORT IN OIL, PETROCHEMICALS AND FUEL TESTING



ACTIVE THROUGHOUT THE AGRIFOOD VALUE CHAIN



MEMBER OF THE CAC40 ESG

WHETHER WE'RE MEETING THE CHALLENGE OF DECOMMISSIONING OFFSHORE ASSETS SAFELY AND SUSTAINABLY, HELPING SHIPOWNERS EMBRACE DECARBONIZATION AND DIGITALIZATION TO TRANSPORT GOODS SAFELY AND SUSTAINABLY, OR SUPPORTING MARINE RENEWABLE ENERGY TECHNOLOGIES, BUREAU VERITAS IS SHAPING A BETTER MARITIME WORLD.

# WE'RE PIONEERS IN SAFETY & PERFORMANCE

PIONEERING THE SAFETY AND PERFORMANCE OF NEW TECHNOLOGIES SINCE 1828, WE ARE ONE OF THE WORLD'S LEADING SHIP CLASSIFICATION SOCIETIES AND OFFSHORE SAFETY AND VERIFICATION BODIES, WITH A GLOBAL NETWORK TO SUPPORT YOU WORLDWIDE.

Bureau Veritas has its origins in shipping. Since the early 19th century, we have ensured that every evolution in ship design and operation is achieved safely, efficiently – and, increasingly, sustainably. As a classification society we bridge the gap between regulatory bodies and the industry. We translate maritime laws and standards into grounded Rules and guidelines to preserve lives, safeguard ships and offshore units, and protect the marine environment.

We are playing a key role in the energy transition by de-risking innovations in design, fuels, equipment and digitalization that will bring about a low-to-no-carbon future.

# WE'RE BY YOUR SIDE

AT BUREAU VERITAS, WE UNDERSTAND THE CHALLENGES YOU FACE IN DESIGNING, BUILDING AND OPERATING A TRULY SUSTAINABLE MARITIME BUSINESS.

We're by your side to help navigate the energy transition; supporting you with practical advice, tools and technology for you to make the right decisions to run a safe, sustainable and high-performing business.

**2,650+**  
EXPERTS WORLDWIDE

# WE'RE FLEXIBLE WITHOUT COMPROMISE

WE'RE KNOWN FOR BEING RESPONSIVE AND BUILDING STRONG AND LONG RELATIONSHIPS WITH OUR CLIENTS; FOR BEING FLEXIBLE WITHOUT COMPROMISE.

And because we're a world leader in testing, inspection and certification services, we have a truly global outlook, bringing a broader understanding of the global supply chain and blue economy. Our strengths lie in finding applicable solutions and standards for our clients, based on their real-life operational situations.

# IT'S WHAT UNITES US

WE SHARE YOUR DRIVE TO LEAVE THE MARITIME WORLD IN A BETTER PLACE THAN WE FOUND IT. IT'S WHAT UNITES US, OUR PASSION FOR THE OCEANS AND OUR DESIRE TO NOT JUST PROTECT OUR SEAS, BUT TO SHAPE A BETTER MARITIME WORLD FOR FUTURE GENERATIONS.

Our teams of maritime experts are the greatest asset we have. Diverse in expertise, culture and background they share with our clients a commitment to protect our ocean while serving the needs of the maritime industry.



# A TRUSTED CLASSIFICATION PARTNER

EVOLVING CLASS FOR AN INDUSTRY ON THE MOVE

**CLASSING SHIPS WITH A TRUSTED CLASSIFICATION SOCIETY LIKE BUREAU VERITAS KEEPS VESSELS SAFE AND COMPLIANT THROUGHOUT THEIR OPERATING LIFE.**

## VALUE IN A CHANGING MARITIME WORLD

As a leading classification society and founding member of IACS, Bureau Veritas has worked hand-in-hand with the maritime industry for nearly two centuries. We have supported every evolution in shipping with Rules to ensure safety and structural integrity, and to prevent pollution. Today, owners are looking to decarbonize vessels and digitize their operations. We are leveraging our expertise to develop new Rules and guidelines that support industry innovation and deliver AiPs to support the safe implementation of new technology.

## SUPPORTING A GROWING CLASSIFIED FLEET

Bureau Veritas is a partner of choice for both newbuildings and ships in-service. Our in-depth knowledge of regulations and leading-edge research ensures vessels are built to the highest standards. Classification services for newbuildings include plan approval of designs and yard surveys, and witnessing of sea trials. We also assist materials and equipment manufacturers with certification services.

Our technical expertise, global network of surveyors in major ports and remote inspection offer enable us to respond effectively and agilely to our client's needs.

## A GLOBAL GROUP SHAPING TRUST

Bureau Veritas is the only classification society operating throughout the value chain of world trade. We are therefore able to offer a holistic view and a comprehensive range of services. As part of the Bureau Veritas Group, we can offer solutions informed by leadership in areas including renewable energy asset certification and inspection, container certification and social audits. This unique position also enables us to offer a wider range of services and tools to our clients. Our VeriFuel fuel management program, for example, helps shipowners ensure the quality of marine fuel, increasing onboard safety.

# #1

CLASS SOCIETY  
BY NUMBER OF SHIPS

# 11,500+

SHIPS IN THE BV-CLASSED  
FLEET



# SAFETY AND PERFORMANCE FOR ALL SHIPS

FROM THE NUMBER ONE CLASSIFICATION SOCIETY BY FLEET SIZE

THE BV-CLASSED FLEET IS THE MOST DIVERSE OF ANY CLASS SOCIETY. OUR EXPERTS SUPPORT CLIENTS WITH VESSELS OF ALL TYPES, SIZES AND OPERATIONAL USES.

**#1**  
FOR TUGS AND DREDGERS

**48**  
BV CLASSED LNG CARRIERS ON ORDER

**36%**  
TONNAGE IN BV FLEET FROM BULK CARRIERS

**1,279**  
TANKERS IN BV FLEET



## CONTAINER SHIPS

With the most advanced, up-to-date Rules for container ships in the industry, we help optimize operations and cargo capacity. As today's container vessels reach sizes of over 20,000 TEU, we offer Rules based on extensive research into the structural and engineering requirements of large ships. We strive to help owners achieve greater loading flexibility and operational agility without compromising on safety.

*Dedicated Rules NR625, NI648*



## LNG CARRIERS

Bureau Veritas has been a pioneer in the LNG carrier market since classing the first vessel in the 1960s. We help ensure the structural integrity and safety of ever-larger vessels, and onboard equipment, with recognized expertise in tank design. We offer notations for icebreaking carriers navigating in polar regions. Today, we are approving designs for larger high-capacity vessels and advising on the transport of bio-LNG.

*Dedicated Rules: NR517, NR529, NR620*



## PASSENGER VESSELS

Focused on safety, onboard comfort and environmental performance, Bureau Veritas classes all types of passenger vessels. We are a leader in LNG-fueled passenger ships, class innovative expedition cruise vessels and have supported the development of electric ferries. Our BIORISK notations are helping build trust during the industry's Covid recovery by addressing health and safety requirements in design and operations.

*Dedicated Rules: NI388, NI640*

## INLAND

BV-certified vessels ply major inland routes all over the world. Our experience covers all types of assets, including passenger vessels, cargo, tankers as well as fixed and floating units.



*Dedicated Rules: NR217*



## BULK CARRIERS

Bureau Veritas classes over 1,100 bulk carriers, helping guarantee structural strength and longevity. Partner of ship owners, charterers and agri-commodity trading companies alike, we assist in the creation of safe, sustainable supply chains for vital goods. Our Rules address technical and operational challenges to assure these put-upon vessels can operate safely with minimum downtime.

*Dedicated Rules: NR606*



## TUGS & DREDGERS

Bureau Veritas is the classification society of choice for over a third of existing dredgers, and provider of tug Rules that have been adopted as an IMO gold standard. Our comprehensive Rules cover all types of designs for both types of vessel, based on in-service experience and in-depth research projects. Now, we bring our century of experience to play in classing next-generation tug and dredger designs.

*Dedicated Rules: NR467 Part E Tugs, NR467 Part D Dredgers*

## OFFSHORE SERVICE VESSELS

Bureau Veritas' notations for OSVs cover all offshore activities from pre-construction to decommissioning. Our notations cover survey & research vessels, service operation vessels and support vessels among many others. We focus on structural integrity, operational and crew safety in realistic operating conditions, based on our in-depth knowledge of offshore industries. Our work exploring alternative fuels and electrification for these vessels supports the decarbonization of energy production chains.



*Dedicated Rules: NR589, NR633*



## TANKERS

The BV-classed fleet includes a range of vessels from VLCCs to asphalt carriers and chemical tankers. We strive to help our clients achieve zero-incident shipping and limit the risks of hazardous cargo transportation. We maintain close relationships with the principal tanker building yards and are supporting the preparation of tankers for the fuel transition with our Ammonia-Prepared notation and guidance on dual fuels.

*Dedicated Rules: NR606 R05, NR622, NI601*



## NAVAL

We have drawn from our experience with the wider shipping industry to develop specific Rules to support warships and patrol ships. We help over 30 navies worldwide to reconcile the specifications of highly specialized equipment with high levels of safety and construction quality.

*Dedicated Rules: NR483, NR535, NR562, NR462*



## FISHING

Bureau Veritas is a leading classification society for fishing vessels. In a sector faced with decentralized regulation, certification allows our clients to demonstrate adherence to sustainable fishing standards. Our social audits ensure that crews operate in safe and fair working conditions.

*Dedicated Rules: NR 467, Part D, Chap. 15*

# FUTURE FUELS AND CLEAN PROPULSION

PIONEERING SAFETY FOR A ZERO-CARBON FUTURE

THE SHIPPING INDUSTRY IS LOOKING TO 2030 AND BEYOND TO DEVELOP THE FUELS NEEDED TO ACHIEVE IMO'S CO<sub>2</sub> REDUCTION TARGET OF -70% BY 2050.

## PATHWAYS TO DECARBONIZATION

The transition to cleaner fuels has already begun. Through our risk studies, involvement in joint industrial projects and new Rules, Bureau Veritas supports ship owners in making the right changes at the right time, with the right technology.

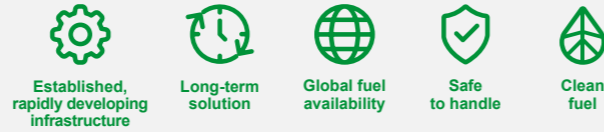
### GUIDING SAFE PROGRESS IN FUEL AND PROPULSION TECHNOLOGY

- **NR206:** Rules for wind assisted propulsion
- **NR671:** Rules for ammonia as fuel
- **NR670:** Rules for Methyl/ethyl alcohol fuelled ships
- **NR547:** Rules for fuel cell systems, including those using hydrogen
- **SUSTAINABLESHIP 1 & 2:** A notation recognizing compliance with and surpassing of environmental statutory requirements
- **AMMONIA PREPARED:** A notation certifying that a new build ship can later be converted to use ammonia as fuel
- **WPS 1 & 2:** Notations for standing and running rigging on wind powered ships.

## MATURE SOLUTIONS For today

### LIQUIFIED NATURAL GAS (LNG)

The best established of the alternative fuel options, LNG is a proven, safe and popular choice. It can be combined with sustainable BioLNG as a drop-in fuel.



We are supporting tanker owners in the adoption of dual-fuel LNG engines and drop-in fuels.

### METHANOL / ETHANOL

Widely available, and already used to fuel some chemical tankers, these fuels are less CO<sub>2</sub> intensive than heavy fuel oil.



We recently assisted in the conversion of a tugboat in the Port of Antwerp to run on methanol.

## BREAKTHROUGH SOLUTIONS For tomorrow

### ELECTRIC POWER

Battery powered, hybrid and fully electric vessels are growing in popularity, particularly for passenger vessels.



We recently classed the Wolfe Islander III and Amherst Islander II electric ferries, supporting cleaner commuter mobility options.

### CARBON CAPTURE USE AND STORAGE (CCUS)

A known technology that is being adapted to shipping, onboard CCUS can be achieved relatively cheaply through retrofitting adapted scrubbers.

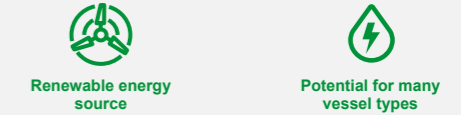


The BV-classed Nordica is being fitted with scrubbers for onboard CCUS.

## NEXT-STEP SOLUTIONS For a zero-carbon future

### WIND ASSISTED PROPULSION

An old technology born again; wind assisted propulsion is being prototyped to cut carbon emissions used in tandem with other fuels.



We awarded an AiP to the first-ever wind powered 1,800 TEU containership, a Zephyr & Borée project.

### AMMONIA

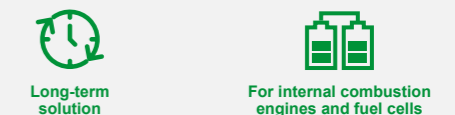
Although it may be some years before ammonia is in widespread use, prototypes from large tankers to small tugs are beginning to emerge.



We are currently supporting the development of a VLAC between Jiagnan and CSTC

### HYDROGEN

Using hydrogen as fuel or in a fuel cell represents significant challenges in terms of safety and storage.



We are developing dedicated Rules for the safe usage of hydrogen in fuel cells.



# SUPPORTING THE ENERGY TRANSITION

EXPERTISE FOR AN EVOLVING OFFSHORE ENERGY MARKET

DEMAND FOR LOW-CARBON ENERGY IS BOOMING AS COUNTRIES TARGET NET ZERO EMISSIONS OVER THE COMING DECADES. OFFSHORE, EFFORTS ARE FOCUSED ON THREE PHASES: IMPROVING EXISTING ASSET EFFICIENCY, DEVELOPING LNG AS POWER AND ACCELERATING DEPLOYMENT OF RENEWABLES TO SUPPORT ELECTRIFICATION.

## MANAGING THE ENERGY TRANSITION WITH ENERGY MAJORS

Several oil majors have set targets to reach net zero emissions from operations and to reduce the methane and carbon emission intensity of their upstream operations. Supported by expertise from our 10 offshore technical centers, Bureau Veritas offers a package of services to support operators to reach net zero, and life extension and technical services to help reduce carbon intensity from existing assets. Our offer is supported by digital tools that enable a holistic approach to assessment and monitoring. For example, our cloud-based collaborative tool, BV Compliance is being used to deliver independent verification services at Centrica Storage's Rough facility.

## CLEANER ENERGY WITH LNG POWERSHIPS

LNG-to-power projects are an attractive, lower-carbon alternative to plants powered by heavy fuel oil. To bring cleaner energy to countries across Africa and South America, Karadeniz and MOL have joined forces to deliver a series of BV-classed conversions of LNG carriers to FSRUs, which will be connected to powerships. Two have been delivered to date, for use offshore Senegal and Brazil, with a third underway.

## SCALING UP OFFSHORE WIND TO MEET DEMAND

The offshore wind market is fast developing. Turbines are growing in both size and power capacity, delivering performance and cost improvements for fixed offshore wind farms. Floating wind, meanwhile is in the final stages of prototyping. Bureau Veritas is supporting development via Approvals in Principle and certification of farms and components.

We have partnered with Nexans to help derisk the installation of high voltage cables that connect offshore wind farms to the grid.

Looking ahead, offshore wind will boost power output to support greater electrification. It will also be crucial in generating green hydrogen via electrolysis, with backup storage used to stabilize the grid, and lower reliance on conventional power plants.



## ADVANCED WIND FARM INSTALLATION AND SUPPORT VESSELS

Accelerated deployment of new wind projects further offshore is creating demand for advanced wind turbine installation vessels (WTIBs) capable of transporting and installing larger turbines in harsh conditions. Advances include the installation of ever-larger cranes, and the use of our ULEV notation denoting ultra-low emissions. Service operating vessel markets are also booming: we recently classed the Wind of Hope for Louis Dreyfus Armateurs built at Cemre in Turkey and the Esvagt Schelde, constructed in Denmark's Havyard Leirvik.

**50%**  
OF POWER BARGES  
ARE BV-CLASSED

**8**  
OFFSHORE TECHNICAL  
CENTERS



# SAFEGUARDING OFFSHORE ASSETS

## CLASSING AND CERTIFYING INNOVATIVE OFFSHORE UNITS

Bureau Veritas is a longstanding partner to offshore energy operators, with demonstrated experience in floating units. Today we are classing new efficient modular FPSO concepts, as well as conversions of tankers to floating units. We are a leader in gas, with dedicated rules and notations for FSRUs, FSUs and FLNGs. By combining our expertise in FSRUs and LNG carrier conversion, we are able to support innovative projects such as the conversion of LNG carriers to powerships.

*Dedicated Rules: NR645, NI 655*

## INTEGRATED IVB AND CLASS OFFER

Our innovative integrated offer brings together classification and independent verification of offshore assets, helping operators maintain a license to operate while optimizing time and cost. Covering commissioning, CAPEX and OPEX phases, it is built on a risk-based approach that aims to ensure integrity is as high as reasonably practicable and risk is as low as reasonably acceptable.

**#1**  
FOR FSRUs  
**200+**  
FLOATING UNITS



## SUPPORTING THE SAFE SCALE-UP OF OFFSHORE WIND

Our services for floating windfarms include the certification of floating parts and mooring systems and, soon, the classification of floating structures. For service vessels, our Rules cover next-generation wind turbine installation vessels, cable layers and anchor handling vessels, as well as service operating vessels and crew transfer vessels. Both sets of Rules are tailored to meet the specific needs of this growing sector.

*Dedicated Rules: NR589, NI572.*

# TECHNICAL ADVISORY AND ENGINEERING CONSULTANCY

GLOBAL SOLUTIONS TO TOMORROW'S CHALLENGES

WE HAVE ALWAYS ADOPTED A HANDS-ON, PRAGMATIC APPROACH TO GUIDING OUR CLIENTS THROUGH EVERY CHALLENGE. THROUGH OUR TECHNICAL ADVISORY AND ENGINEERING CONSULTING SERVICES WE EXPAND OUR OFFER BEYOND CLASS TO REDUCE RISK, IMPROVE PERFORMANCE AND NAVIGATE THE ENERGY TRANSITION.



## BUREAU VERITAS SOLUTIONS MARINE & OFFSHORE

BV Solutions M&O is a global solutions network of maritime engineers and naval architects, who strive to be onboard with their clients through every challenge. Whether supporting on the ground or in a background consultancy capacity, their engineering and technical advisory, asset management and assurance solutions enable clients to de-risk projects, advance the energy transition and resolve complex issues.

**9**  
OFFICES  
**40**  
YEARS OF EXPERIENCE



## MATTHEWS DANIEL

Combining engineering and oilfield expertise, Matthews Daniel provides innovative loss-adjusting and marine warranty solutions for marine and energy industries. Their services include surveying, pre- and post-risk assessments, and appraisal for a wide array of assets.

**14**  
OFFICES  
**60**  
YEARS OF EXPERIENCE



## TMC MARINE

Through TMC Marine, we extend our service offer to meet the needs of the marine insurance consultancy markets. Experts in marine surveying and consultancy, emergency response salvage, TMC Marine offers an expert hand to assist with claims, litigation, salvage and resolving marine incidents.

**8**  
OFFICES  
**40+**  
YEARS OF EXPERIENCE



# DIGITAL CLASS

THE CATALYST TO A MORE EFFICIENT FUTURE

**BUREAU VERITAS IS TRANSFORMING CLASSIFICATION FOR MARINE AND OFFSHORE INDUSTRIES. NEW DIGITAL TECHNOLOGIES WILL FOSTER MORE EFFICIENT CLASS SERVICES AND ENHANCE VALUE FOR DESIGNERS, MANUFACTURERS, OWNERS AND OPERATORS OF SHIPS AND FLOATING STRUCTURES.**

## THE FUTURE OF CLASS IS 3D

Classification is undergoing its own evolution, digitalizing design review using 3D technology. A huge leap forward from the 2D blueprints that characterized the first two centuries of our industry, 3D models last from the design phase through the entire lifespan of an asset.

3D classification allows all parties to collaborate simultaneously on a model for an improved design review experience and reduced risk of errors and inconsistencies. This represents a huge gain in efficiency, saving up to six months of certification time.

## IMPROVING EFFICIENCY WITH REMOTE SURVEYS & INSPECTIONS

Our remote surveys and inspections help our clients improve safety and avoid costly downtime or disruption to their operations. We harness a variety of technologies from AI corrosion detection, to drone surveys.

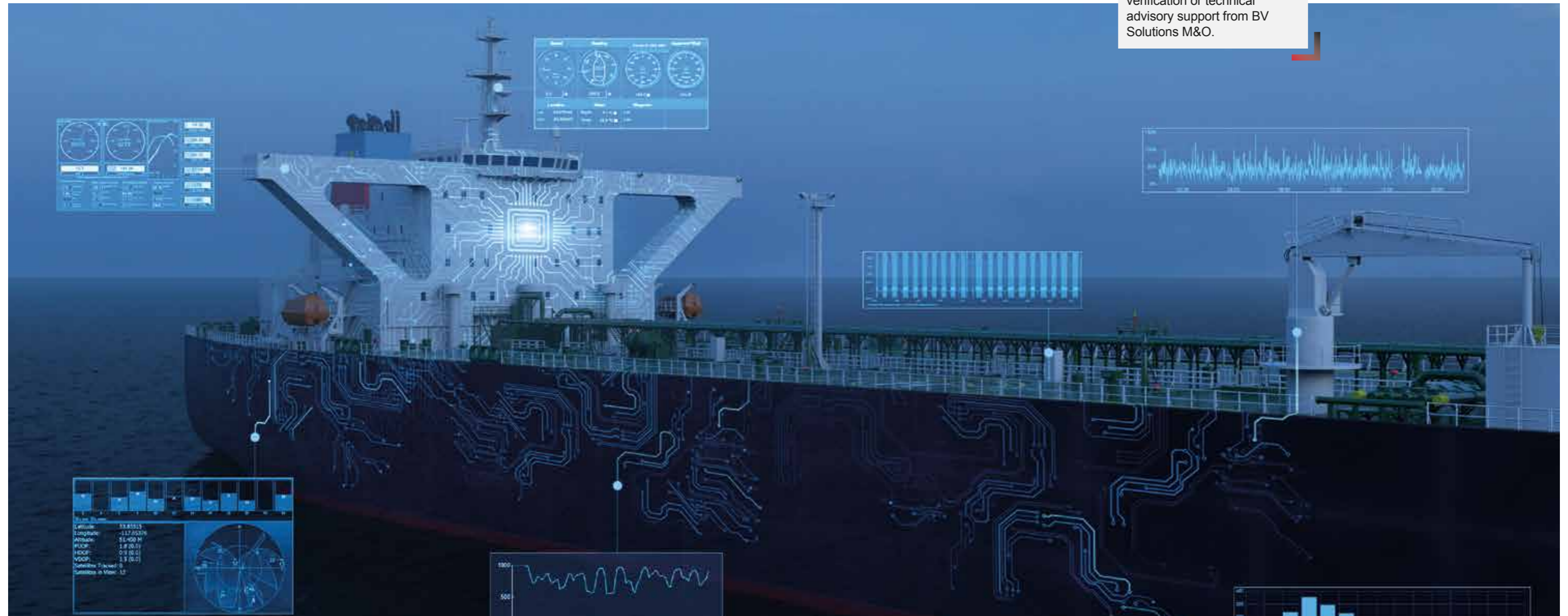
We have eight Remote Survey Centers in our global network, offering our clients increased flexibility. We have refined our offer over the Covid-19 pandemic, and published our NI672 guidelines informed by this experience.

## PREDICTIVE & OPTIMIZED SURVEY SCHEME

In shipping's digital revolution, predictive maintenance technology will come to the fore to optimize maintenance schedules and reduce downtime. We advise our clients throughout their vessel's lifecycle, in choosing the right system and ensuring ISM compliance. Our new Machinery Maintenance Portal is now available to help ship owners go into optimized maintenance systems and optimize efficiency and costs.

### VERISTAR GREEN

VeriSTAR GREEN is our digital platform that enables shipowners to assess their fleet's EEXI and CII compliance. Continually updated, it reflects the latest IMO requirements, as well as giving easy access to verification or technical advisory support from BV Solutions M&O.



# SMART SHIPPING AND CYBER SECURITY

PARTNERING INNOVATION

THE DEVELOPMENT OF SMART SYSTEMS AND CONNECTED, DIGITALLY AUGMENTED, AND EVEN AUTONOMOUS SHIPS IS A KEY PART OF THE NEXT WAVE OF DIGITALIZATION. BUREAU VERITAS IS HELPING THE INDUSTRY MOVE FORWARD BY ASSESSING THE SAFETY, RELIABILITY AND FUNCTIONALITY OF DIGITAL SYSTEMS AND SMART ASSETS.

## SUPPORTING DEVELOPMENT OF SMART SHIPS

Smart ships offer multiple benefits to ship owners and operators. Ship performance is boosted with data driven solutions and operating modes, connectivity onboard, data analytics and artificial intelligence, decision support systems, and remote monitoring. Bureau Veritas is using its classification expertise to develop new rules and class notations for smart ships and on-board systems. Our SMART service feature denotes ships fitted with a smart system for hull, machinery, navigation, energy management and other systems that complies with requirements. Bureau Veritas is also providing services to help implement technologies and assist in optimization.

## A COMPREHENSIVE APPROACH TO CYBER RISK

Bureau Veritas helps clients reduce risk and comply with the ISM Code by developing robust cyber risk management systems and earning cyber security notations. Our CYBER MANAGED notation is granted to clients who use a risk-based methodology and standardized framework to analyze and mitigate risk. Our CYBER SECURE notation ensures compliance with IACS cyber security guidelines, adding a "secure by design" layer to procedural aspects covered by CYBER MANAGED.



## CONNECTED

Data is transferred from ship to shore, requiring additional levels of connectivity and security.

## AUGMENTED

Onboard, some decisions and actions are undertaken by data-driven operating systems or controlled remotely from shore.

## COMPUTER-BASED

Onboard systems and digital data capturing solutions track, log and analyze the ships data. Humans operate the vessel and make operational decisions.

## AUTONOMOUS

Fully unmanned, autonomous ships are run independent of human intervention unless in case of emergency.

# GLOBAL EXPERTISE WITH LOCAL EXPERIENCE

- **180** SURVEY CENTERS
- **19** LOCAL PLAN APPROVAL OFFICES
- ▲ **6** MARINE OPERATIONS CENTERS
- | **8** REMOTE SURVEY CENTERS

**UNITED STATES**  
 We are supporting Carnival's ambition to protect its cruise customers post-Covid thanks to our pioneering Restart Your Business initiative.

**UK AND NETHERLANDS**  
 We are assisting the construction of innovative service operating vessels and crew transfer vessels, including an electric hybrid CTV for Chartwell Marine and the world's first diesel-electric hybrid powered surface effect ship for Cwind.

**FRANCE**  
 Initiatives are underway worldwide to develop commercially viable floating wind projects. We are working on four floating offshore wind projects under development in France, providing support on project designs and fabrication and installation procedures.

**NORDICS**  
 The Nordics region is a powerhouse of green technology innovation. We are involved in multiple industry projects, including the EverLONG JIP for onboard carbon capture and storage, and the Bornholm Bunker Hub for sustainable fuel.

**GREECE**  
 In the world's largest shipowning economy, Bureau Veritas now classes 1,048 vessels (42m GRT). Eight LNG carriers are being built at HHI for Dynagas using a BV-approved prototype design. One has been delivered already.

**SOUTH KOREA**  
 In addition to our work with longstanding clients, we are classing three LNG carriers for Hyundai LNG Shipping. We also awarded our Cyber Managed Prepared Notation to SHI for its SVESSEL solution.

**MIAMI**

**BRAZIL AND GUYANA**  
 We are supporting Petrobras in its expansion of its FPSO pipeline.

**ROTTERDAM**  
**PARIS**  
**ATHENS**  
**ISTANBUL**

**MIDDLE EAST**  
 We have welcomed the class transfer of 61 ships with the Kuwait Oil Company. Beyond class, we are providing Nakilat with CAP surveys and engineering services\* for 21 LNG carriers.

**DUBAI**

**SINGAPORE**  
 Singapore recently took delivery of its first hybrid electric vessel; a workboat benefiting from our Zero Emission class notation.

**SINGAPORE**

**CHINA**  
 We recently secured our first newbuilding container project with MSC, to class two 3,700 TEU open hatch container ships. Work also continues on CMA CGM's pipeline of 22 new containerships, including 12 dual-fuel vessels.

**SHANGHAI**

\*Services provided by Bureau Veritas Solutions – Marine & Offshore

# EXECUTIVE COMMITTEE

AS THE INDUSTRY WE SERVE EVOLVES, WE ARE EVOLVING WITH IT. THE BUREAU VERITAS MARINE AND OFFSHORE EXECUTIVE COMMITTEE LEADS OUR DEVELOPMENT OF NEW SERVICES, RULES AND TOOLS TO OFFER COMPREHENSIVE SOLUTIONS TO ANY CHALLENGE OUR CLIENTS FACE.



**“CLASS HAS ALWAYS BEEN THERE TO SUPPORT THE MARITIME SECTOR AT EACH INNOVATIVE STEP. NOW, AS THE INDUSTRY UNDERGOES A SEISMIC TRANSFORMATION, THE ROLE OF CLASSIFICATION WILL BE MORE VITAL THAN EVER. SHAPING A BETTER MARITIME WORLD MEANS NOT ONLY PROTECTING ASSETS AND LIVES AT SEA, BUT STANDING UP FOR THE SEA ITSELF.”**

**MATTHIEU DE TUGNY**  
President, Marine & Offshore



**ALEX GREGG-SMITH**  
Senior Vice President,  
North Asia Zone



**DAVID BARROW**  
Vice President,  
South Asia Zone



**NICHOLAS BROWN**  
Communications  
Director



**BRUNO DABOUIS**  
Vice President,  
West Europe,  
North America  
& North Africa Zone



**CLAIRE PIKE**  
Vice President,  
Human Resources



**PATRICK LE DILY**  
Vice President,  
Legal, Compliance &  
Risk



**PAUL SHRIEVE**  
Vice President,  
Global Services



**LAURENT LEBLANC**  
Senior Vice President,  
Technical &  
Operations



**PAUL DELOUCHE**  
Strategy & Advanced  
Services Director



**HERMAN SPILKER**  
Vice President,  
North Europe Zone



**FABRICE LASSALLE**  
Vice President,  
Finance



**LAURENT HENTGES**  
Vice President,  
Digital Solutions &  
Transformation



**PAILLETTE PALAIOLOGOU**  
Vice President,  
South East Europe,  
Black Sea & Adriatic  
Zone



**KEREM KIPER**  
Vice President,  
India, Middle East &  
Africa Zone



**ULRIK DAN FRORUP**  
Chief Commercial  
Director



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Shaping a World of Trust