

Japan Ship Machinery and Equipment Association

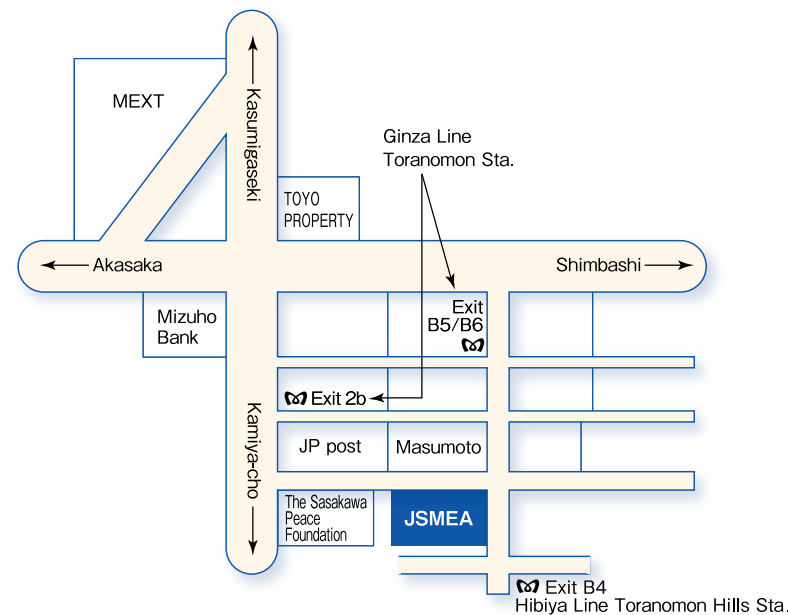
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JSMEA

Japan Ship Machinery and Equipment Association

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Message from JSMEA chairman



Contributing to the world

The Japan Ship Machinery and Equipment Association (JSMEA) operates to advance the Japanese ship machinery and equipment industry and contribute to the expansion of the Japanese economy.

I take pride in the Japanese ship machinery and equipment industry for helping shipping and shipbuilding grow in line with the development of the global economy and marine transport by stably supplying products of high quality. In Japan, which is completely surrounded by water, in particular, it plays an important role in underpinning industrial activities and bolstering the livelihood of the people.

Looking at circumstances surrounding the ship machinery and equipment industry, relevant enterprises are working hard to address global warming, an issue attracting attention around the world, with massive support from the government of Japan that includes policies to popularize zero-emission ships. Global demand for newbuildings is expected to swell in the future due to the need to replace existing ships en masse and the International Maritime Organization (IMO)'s enhanced greenhouse gas (GHG) reduction strategy. At such a time, the practical use and commercialization of unmanned ships, with the hope of their making great social contributions, is just around the corner. Meanwhile, Japan is facing a decline in the population of those in their productive years owing to a falling birth rate and an aging society. As such, the ship machinery and equipment industry has been having a tough time securing necessary human resources for some time now.

In such a situation, I believe that JSMEA will need to play more roles. To reinforce the global competitiveness of the Japanese ship machinery and equipment industry and further boost industrial activities, we will have our member companies join forces to actively engage in various business projects.

JSMEA owes what it is today to the appropriate guidance and support given by its members as well as relevant authorities and organizations. I hope they will continue to guide and encourage us in years to come.

Kinoshita Kazuhiko

Chairman
Japan Ship Machinery and Equipment Association

History

1966 : The Japan Shipbuilding Related Industries Association (established in October 1956) is renamed Japan Ship Machinery and Equipment Association (JSMEA) when merged with the Japan Marine Engine Association (established in November 1948)

1971 : JSMEA's Quality Control Guidance Headquarters reborn as an independent organization, the Japan Ship-Machinery Quality Control Association.

1991 : JSMEA takes over the Japan Ship Machinery External-Trade Association

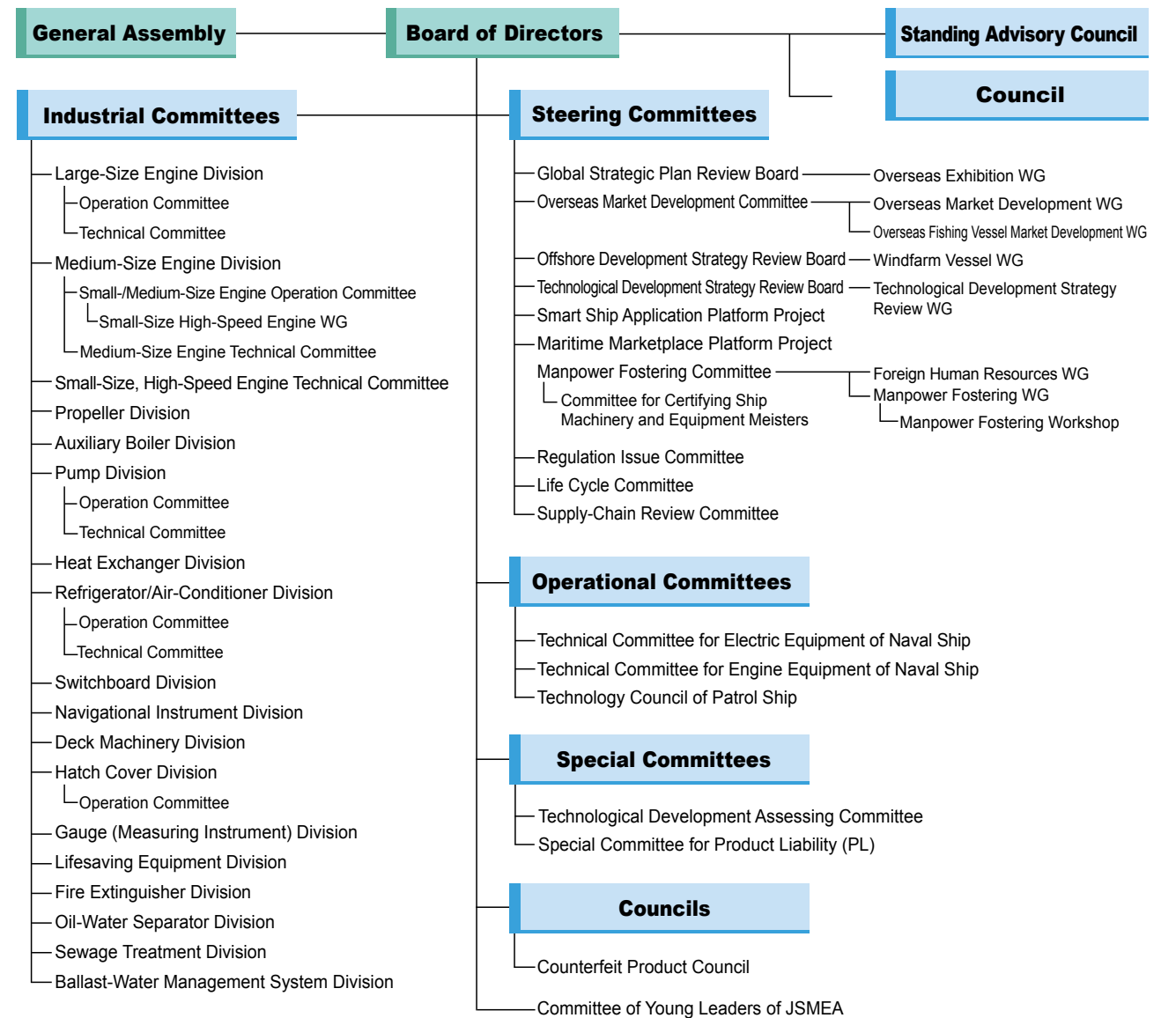
1994 : JSMEA takes over the Japan Marine Machinery Development Association

2013 : JSMEA changes its status from an incorporated foundation to a general incorporated foundation

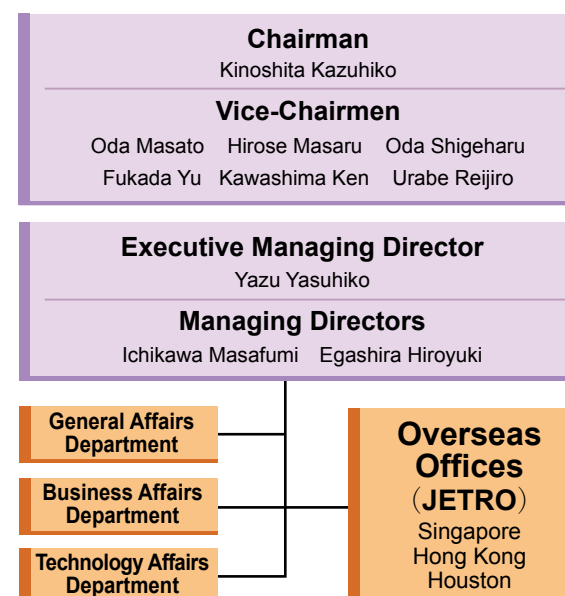
Organization

2025.7			
Members			
Ordinary Members	257	Supporting Members	75
Board members			
Chairman	1	Bureau	
Vice Chairmen	6	Executive Managing Director	1
Directors	59	Managing Directors	2
(Including Chairman, Vice Chairmen, Executive Managing Director and Managing Directors)		Executive Offshore Adviser	1
		Staff	20
Auditor	3	Annual Budget	1,155,780,521 yen (FY2025)

Organization



Secretariat



Outline of JSMEA activities

To contribute to the world's maritime industries, Japan Ship Machinery and Equipment Association (JSMEA) **a)** promotes global development, **b)** helps to make sure that manufacturing products meet the needs of users (shipowners and shipbuilders, et al.), and **c)** cultivates human resources that will underpin the Japanese ship machinery and equipment industry in the future, among many other efforts.

To this end, we deliver the high reliability of Japan-made ship machinery and equipment and constantly provide products that help users save energy and protect the natural environment.

For fiscal 2025 (April 2025-March 2026), we have drawn up a business plan, JSMEA Action Plan 2025, which fortifies our determination to carry out the following activities.

I. Developing global business (attending the events and carrying out the projects below marked with an asterisk (*) with financial support from The Nippon Foundation)

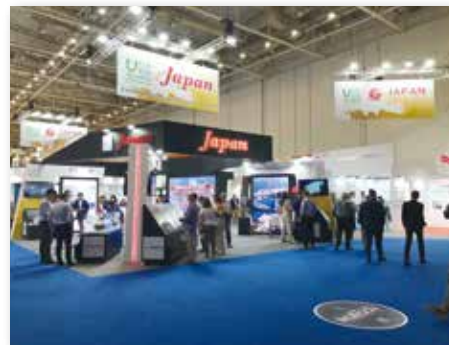
To expand the overseas network through which Japanese ship machinery and equipment are sold, JSMEA participates actively in international exhibitions that allows it to efficiently promote Japanese products while analyzing marketability in countries of ship owners and shipbuilders.

In Southeast Asia and other regions where growth of the maritime industry is expected in the future, we are, meanwhile, working hard at holding seminars to introduce Japanese ship machinery and equipment products directly to potential customers. We are also visiting relevant overseas organizations, ship owners, shipbuilders and others and seeking closer ties with customers to further promote Japanese ship machinery and equipment products and to develop sales channels.

① Participating in international exhibitions worldwide

JSMEA is participating in the international exhibitions listed below by setting up a Japan pavilion to actively promote members' products and technologies to ship owners, shipbuilders and other customers. While attending the exhibitions, we are also organizing seminars and receptions to talk about Japanese ship machinery and equipment products with customers while enhancing relations.

- Offshore Technology Conference (May in Houston*)
- IMPA London (September in London)
(These events are both held every year.)
- Asia Pacific Maritime (March in Singapore)
- Posidonia (June in Athens*)
- SMM Hamburg (September in Hamburg*)
(These events are all held in even years.)
- Nor-Shipping (June in Oslo*)
- Marintec China (December in Shanghai*)
(These events are all held in odd years.)



Posidonia 2024

② Participating in Sea Japan *

Members of the Japanese maritime cluster are joining forces to open a thematic zone at the Japan pavilion, to hold seminars on international maritime affairs and ship and marine technologies to boast of the Japanese maritime industry to visitors from Japan and overseas. Sea Japan Committee—secretariat: JSMEA and the Ministry of Land, Infrastructure, Transport and Tourism (MLIT)—is responsible for planning. We are also setting up a member zone at the Japan pavilion to allow member companies to promote their Japanese ship machinery and equipment products extensively among visitors from Japan and overseas.

③ Organizing ship machinery and equipment seminars *

With the aim of opening up new markets, JSMEA is vigorously organizing seminars. We are introducing Japan's high-quality ship machinery and equipment products and high-level technologies to ship owners, shipbuilders and others in Southeast Asia and other regions that are projected to generate more shipbuilding demand in step with growth in their respective economies.

We are beginning to work actively to introduce products to parties in other countries and regions in the fishing industries along with many other efforts. We are, thus, developing new channels through which said products are sold to the overseas fishing markets that are projected to expand in the future.

Fiscal 2025: Indonesia, Thailand, Greece, Philippines

Fiscal 2024: Hong Kong, Malaysia, UAE, Spain

Fiscal 2023: Turkey, Taiwan and Malaysia

Fiscal 2022: Taiwan, Indonesia and Vietnam

Fiscal 2020: Malaysia

*Fiscal 2021: Malaysia (online)

④ Gathering information and carrying out research for other countries *

Effectively using its offices run jointly with the Japan External Trade Organization (JETRO) in Singapore, Hong Kong and Houston, JSMEA is gathering information and conducting various research activities on local affairs in other Asian economies, Europe and the Americas. We are also supporting activities of Japanese enterprises that operate in these regions. To encourage Japanese enterprises to make inroads into other countries and regions, we are striving to introduce marketing channels, to boost demand and to take other necessary actions.

⑤ Issuing public relations magazine in English

JSMEA is releasing new issues of its English-language newsletter, JSMEA News, which introduces to overseas businesses the Japanese ship machinery and equipment industry as well as new products by member companies, and distributing them extensively among shipowners, shipbuilders and other parties abroad.



English Newsletter "JSMEA News"

II. Promoting offshore business

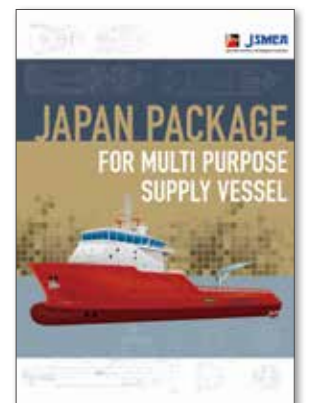
JSMEA is advancing the following projects to develop and enlarge offshore development markets.

① Efforts to expand sales channels in the Offshore Support Vessel (OSVs) Market

With the support of the Ministry of Land, Infrastructure, Transport and Tourism's "Subsidies toward research and development for improving marine resource exploitation related technologies" JSMEA has been working on the "Project to create basic design drawings of OSVs on a premise that Japanese ship machinery and equipment will be adopted," and has created "Seven basic packages" and "Basic design drawings for Multi Purpose Supply Vessel" for operation in Asia and the Middle East. JSMEA is also engaged in sales and marketing activities to disseminate the drawings and realize the construction of OSVs.

The design drawings have been approved as Approval in Principle (AIP) by the American Bureau of Shipping (ABS).

In 2024 as a Nippon Foundation-subsidized project, JSMEA hold Business Matching Forums to promote JSMEA members' products in Malaysia and UAE with local partners - Malaysian Shipowners' Association (MASA), Malaysian Offshore Support Vessel Association (MOSVA), ADNOC Logistic & Service and others.



② Efforts to Expand Sales Channels to the Offshore Floating Production Facility Market

- We provide information on FPSO, FLNG and other order receipts and placements to our members every month.
- We attend the Offshore Technology Conference, which is held in May every year in the United States, and set up a Japan pavilion together with member companies and compatriot offshore development-related enterprises to create opportunities for promoting entries to the offshore development market.
- We explore decarbonization developments and tech companies in the United States. We also research trends in new technology and work to utilize excellent technologies right away.

③ Efforts to Expand Entry to the Offshore Wind Power Generation Market

As for initiatives toward support vessels to be implemented in anticipation of growth in demand for offshore wind power generation, we set up a Windfirm Vessel Working Group under our Offshore Development Review Board in 2022. We provide information on ship demand among other related matters, and holds information and opinion exchange sessions as well as other events with domestic shipping companies. We also strive to have domestically manufactured ship machinery and equipment products installed on crew transfer vessels (CTVs), service operation vessels (SOVs) and other support vessels in partnership with the government of Japan, the Japanese shipbuilding industry and other partners.

III. Promoting securement and development of human resources

To enhance the strength of its member companies, JSMEA works to secure highly capable human resources and to develop appropriate the needed human resources.

① Certifying ship machinery and equipment meisters

JSMEA is certifying highly skilled individuals who support the ship machinery and equipment industry as "meisters" and actively recommending the government of Japan, private organizations and other parties to commend them.

② Securing human resources

—Providing ship machinery and equipment courses—

To enable students to better understand ship machinery and equipment, JSMEA is giving lectures on the ship machinery and equipment industry



A ceremony for awarding certificates to meisters

Outline of JSMEA activities

at Tokyo University of Marine Science and Technology, Kobe University and Alliance for Maritime Education in Kansai Area, which are being taught by lecturers from the industry. In preparation for providing the lectures, we are working to enrich curriculum and having our Industrial Committees create common textbooks for different fields of business and distribute them to students.

–Giving briefing sessions on ship machinery and equipment–

JSMEA is extending the briefing sessions that it gives to introduce the ship machinery and equipment industry to students at Tokyo University of Marine Science and Technology, Kobe University, Tokai University, Nagasaki Institute of Applied Science (NIAS) and other maritime universities and colleges to general universities and colleges, such as Doshisha University, Kagoshima University, Osaka Metropolitan University and Tottori University.

–Holding modest-scale matching events–

In partnership with recruiting companies, JSMEA is holding modest-scale matching events for a small number of enterprises and students, regarding them as a project more directly related to recruitment.

–Branding for the Ship Machinery and Equipment Industry–

To promote the ship machinery and equipment industry and improve its public image via the internet and other means, we publicize the appeals of the industry, such as its progressive approaches that include decarbonization and autonomous ships; deliver recruitment information of member companies; highlight standout examples of employees and workplaces; and so forth.

③ Providing education and training to corporate employees

–Ship machinery seminar–

With help from relevant governmental ministries and agencies as well as private organizations, JSMEA is holding ship machinery seminar to provide up-to-date information that includes industry trends, policies and others to mid-career and other employees of member companies.

–Holding classes on English for ship machinery and equipment–

JSMEA is organizing practical English classes for ship machinery and equipment to service engineers and other employees of member companies who are required to use English in daily routines. We are also giving classes to help students improve their English presentation skills as well as providing business English for beginners.

–Offering OTJ training programs–

For employees of member companies with few boarding opportunities, JSMEA is offering on-the-job (OTJ) training programs at Tokyo University of Marine Science and Kobe University to learn how ship machinery and equipment are operated on actual ships.

–Giving education workshops for new and other young employees–

JSMEA is giving workshops for new and other young employees of member companies. Our purpose is to help them to improve their thinking, manners and other things that mature adult workers should know, as well as basic knowledge on the Japanese maritime industry in general, which includes the ship machinery and equipment industry. We would also like to give them the opportunity to meet and have interchanges with each other.

IV. Activating technological development

To continue to grow in the future, the Japanese ship machinery and equipment industry needs to accomplish innovations for, among others, energy saving, environmental protection and technologies for safe ship operations. It is also necessary to promote leading-edge technological development so that the industry will be capable of making proposals toward international standards. In hopes of raising the technological capability of the entire industry, JSMEA is coming up with technological challenges that several parties can work together to overcome and developing environments for them to do so. Believing that it is important to differentiate Japanese products from those made in other countries and regions by adding more value and making other efforts, we are carrying out the following projects.

① Developing new products *

JSMEA is developing new products to enhance the competitiveness of member companies, learning from the needs of ship owners and other customers as well as proposals made by members.

② Holding study sessions

As part of making efforts to stimulate the development of new products, JSMEA is holding workshops to encourage members of the maritime clusters to work with each other. To realize cutting-edge navigation systems, the Smart Ship Application Platform (SSAP) project has now been set up. The project aims to build information infrastructures on board ships and between shore and ships ahead of the rest of the world to realize information integration among different on-board machinery and equipment. To this end, it has participated in and contributed to the formulation of a total of four ISO standards to stabilize and optimize data sharing between shore and ships, on which it has held discussions through study session activities. The project has



also conducted surveys and research on cybersecurity for ships and common challenges in IT, OT and IoT. The SSAP is working as a cluster with participation not only from JSMEA, but also from the government of Japan, classification societies, shipping and shipbuilding companies, universities and colleges, parties concerned with meteorology and others.

③ Organizing ship machinery and equipment technology forum

JSMEA is holding its annual ship machinery and equipment technology forum. Through this forum, we are extensively announcing our achievements in developing new products and disseminating information on the achievements. We are also introducing topics on the latest technologies relating to maritime affairs of the time, coming up with new themes and crafting technological strategies.



New-Generation Marine Engineer Association (NGMEA)

④ New-Generation Marine Engineer Association

JSMEA is holding meetings of its New-Generation Marine Engineer Association for the young engineers from its member companies who will underpin the ship machinery and equipment industry in the future. We intend to provide them with opportunities to deeply interacting with other engineers from the industry and other fields of business, encourage them to improve their capabilities and change their ways of thinking, and create opportunities to develop products from new ideas.

V. Addressing safety and environmental issues

In respect to the safe and environmental issues being discussed by the International Maritime Organization (IMO), the International Organization for Standardization (ISO) and others, JSMEA is holding meetings of its Regulation Issue Committee, Industrial Committees and other in-house units to gather opinions from the ship machinery and equipment industry and address the issues.

① Promoting measures against non-genuine products

To contribute to ensuring safety in ship operations and protecting the natural environment at sea, JSMEA is carrying out activities to keep customers from using non-genuine ship machinery and equipment products (e.g., by organizing seminars and distributing publications that encourage them to use genuine products). To this end, we are striving to help customers easily identify genuine products from non-genuine products, including the application of the JSMEA Genuine Products Label to products of the member companies that want it.



symbol label of genuine product

② Coping with Ballast Water Management Convention

As for the International Convention for the Control and Management of Ships' Ballast Water and Sediments (Ballast Water Management Convention), which entered into force in September 2017, the IMO is for the time being seeing how the convention is executed and accumulating experiences so that they will be effectively used when the convention is revised. To rationally implement the convention in a globally unified way, for its part, JSMEA is gathering opinions from the ship machinery and equipment industry and actively participating in IMO and International Organization for Standardization (ISO) discussions.

③ Following GHG reduction strategies

In July 2023, the IMO revised GHG Strategy includes an enhanced common ambition to reach net-zero GHG emissions from international shipping close to 2050. To accomplish carbon neutrality by 2050, in addition, domestic shipping was required to pursue further energy-saving measures and use alternative fuel. To clear these targets, JSMEA is advancing the development of new marine engines running on new fuel and relevant peripheral equipment to achieve zero GHG emissions.

VI. Cooperating on technologies for governmental vessels

To raise to higher levels the quality of ship machinery and equipment for patrol and other government-owned vessels, JSMEA is promoting long-term relations between member companies and relevant governmental ministries and agencies through the following efforts.

① MOD

JSMEA is having its Technical Committee for Electric Equipment of Naval Ship and Technical Committee for Engine Equipment of Naval Ship discuss ways to smoothly carry out technology-related business projects entrusted by the Ministry of Defense (MOD), enhance the performance and quality of relevant ship machinery and equipment products, and improve after-sales services.

② JCG

JSMEA's Technical Council for Patrol Boat is exchanging views and conducting other activities with the Japan Coast Guard (JCG) on technological challenges facing ship machinery and equipment for patrol vessels and information on the technologies that member companies boast.

VII. Reinforcing business foundations

To reinforce the business foundations of its member companies, JSMEA is conducting the following activities.

① Encouraging interchanges and cooperation within the industry

–Organizing industry sector meetings–

To encourage interchanges and cooperation within the ship machinery and equipment industry, JSMEA is organizing industry sector meetings to stimulate the industry and enhance partnerships among sectors.

–Convening meeting of its Committee of Young Leaders of JSMEA and others–

JSMEA is striving to revitalize the ship machinery and equipment industry by encouraging young business managers and others who are responsible for future generations to exchange opinions with each other and have interchanges with those from other industries. More specifically, we are organizing workshops on maritime administration with the Maritime Bureau of the MLIT and meetings with major oceangoing shipping companies. We are also actively helping them to visit public organizations and private enterprises in Japan and overseas that are concerned with maritime affairs and holding lecture meetings with experts throughout the fiscal year.

② Promoting interchanges and cooperation with customer industries and others.

–Shipping industry–

JSMEA is having its Policy Committee meet with oceangoing and domestic shipping service providers, exchange information and views on challenges facing the shipping industry and other issues and promote enhancements in partnership among members of the Japanese maritime cluster.

–Shipbuilding industry–

JSMEA is having its Policy Committee meet with shipbuilding companies and organizations to exchange information and views on challenges facing the shipbuilding industry and other issues.

–Other organizations–

JSMEA is meeting with Nippon Kaiji Kyokai (ClassNK), the Japan Railway Construction, Transport and Technology Agency (JRTT), the Fishing Boat and System Engineering Association and others, and exchanging information and views on challenges facing relevant industries.

③ Conducting seminars on business strategies

JSMEA is conducting seminars on business strategies and other subjects for business manager and other parties to revitalize the Japanese ship machinery and equipment industry.

④ Issuing newsletters and statistics reports

JSMEA is releasing new issues of its quarterly newsletter, called “Haku,” and unveiling various statistical reports for member companies and relevant industries to inform them of their and its members’ activities and other news.



Newsletter “Haku”

VIII. Others

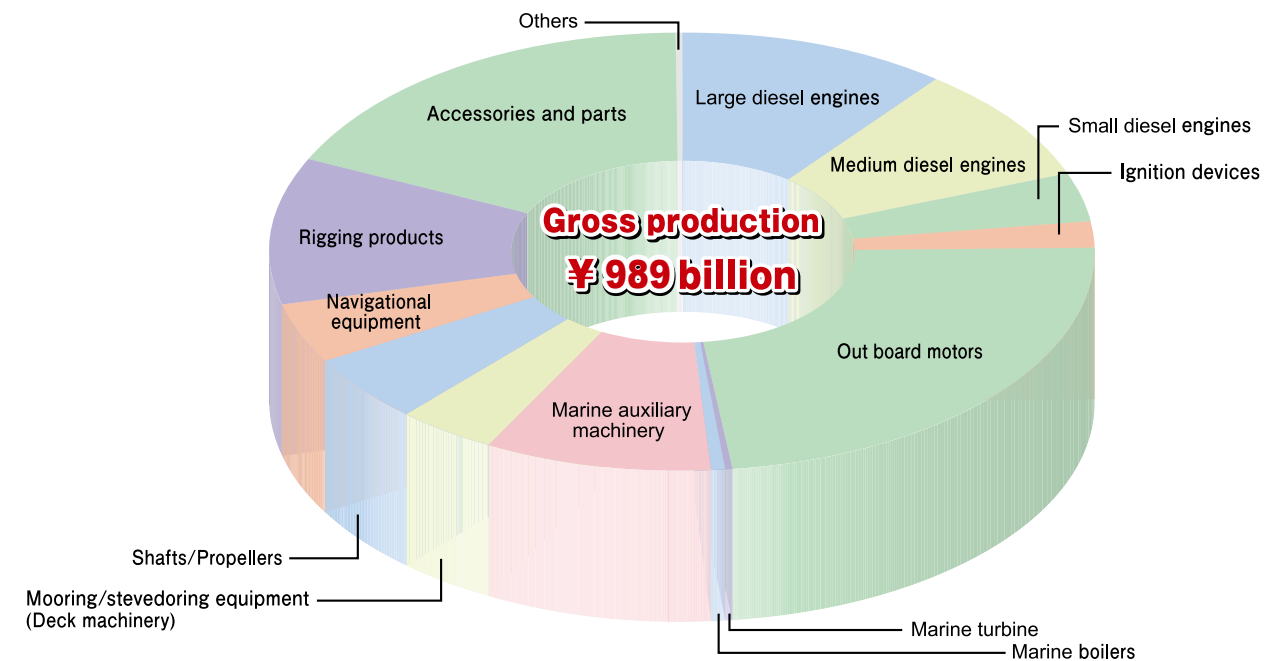
① Recommending individuals and organizations for commendations

JSMEA is recommending individuals with distinguished achievements for decorations, awards and/or commendations by the minister of land, infrastructure, transport and tourism. We are also endorsing nominees for the Monodzukuri Nippon Grand Award and other events, while JSMEA chairman himself is recognizing such individuals and organizations.

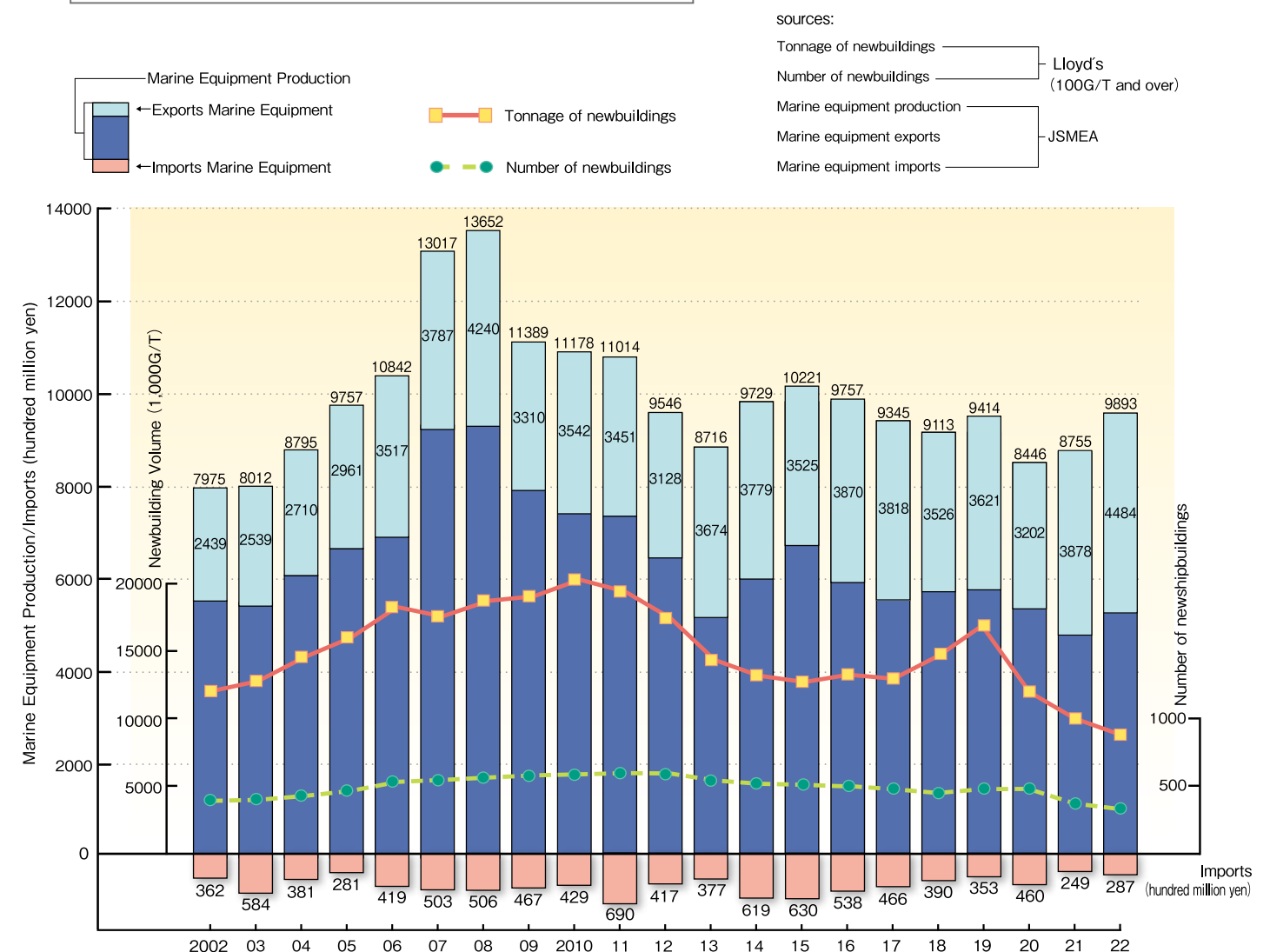
② Holding events for New Year’s greetings, commendations and regional assemblies in autumn

source : MLIT

Japan's Marine equipment production output (2022)



Marine equipment production / newbuilding completion

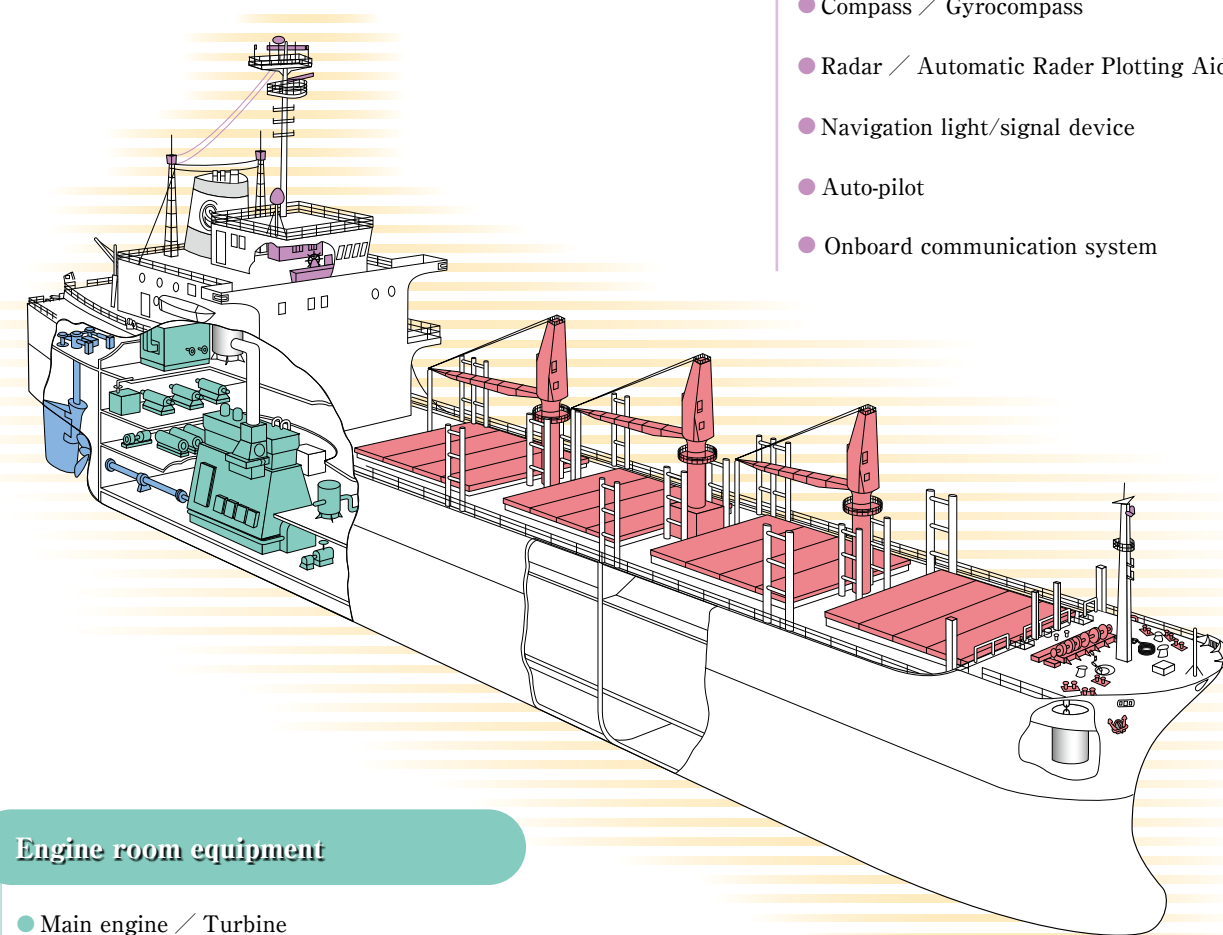


Propulsion/steering equipment

- Propeller shaft / Intermediate shaft
- Propeller
- Steering gear
- Rudder

Navigational system instrument

- Compass / Gyrocompass
- Radar / Automatic Rader Plotting Aids
- Navigation light/signal device
- Auto-pilot
- Onboard communication system



Engine room equipment

- Main engine / Turbine
- Boiler
- Generator
- Switchboard/Distribution board/Electric device
- Heat exchanger
- Oil purifier
- Compressor
- Pumps
- Refrigeration/air conditioning equipment

Mooring/stevedoring equipment

- Anchor / Chain
- Mooring winch
- Windlass
- Deck crane
- Hatchcover
- Cargo pump

Examples of the requests from ship machinery and equipment manufacturers and other JSMEA members

We want to obtain information on issues relating to International Maritime Organization (IMO) and other regulations.

We want to develop new products.

We want to exchange information and views with the industry.

We want to conduct industry-wide activities to take actions.
(for standardization, against non-genuine products, and to comply with international regulations)

We want to develop human resources.

We want to have more detailed information on overseas customers and sell more products in other countries.

We want to launch offshore development projects.

JSMEA activities to fulfill members' requests

- JSMEA gathers opinions from the industry, and our delegations present them to the IMO. We achieve this at our Technical Committee meetings;
- Conducts strategic activities in partnership with the government of Japan, such as garnering information on international regulations in advance, at our Committee on Regulation Issue and other industrial committees;
- Develops products that comply with regulations by advancing projects to support technological development; and
- Collects information on developments in IMO and other international regulations and disclose such information at our industrial committee meetings as well as in our newsletter and on our Web site.

- JSMEA explores customers' needs by meeting with ship owners, shipbuilders and other parties;
- Develops products jointly with customers by conducting joint, by-subject and other study sessions;
- Develops products in anticipation of future regulations by working together with the government of Japan, our Committee on Regulation Issue and other industry insiders;
- Supports development funds; more specifically, we conduct feasibility studies and offer grants for developing products; and
- Promotes developed products through announcements at exhibitions, our seminars, and the enterprises that we visit, as well as in our newsletter and on other occasions.

- JSMEA shares and exchanges information on industry issues at our industrial committee meetings and through interchanges with our member companies (at New Year get-togethers to exchange greetings, our annual autumn general assemblies and other events); and
- Keeps an eye on industry trends by providing our member companies with statistical data.

- JSMEA establishes industry standards; more specifically, we standardize production details and specification documents, and make proposals with the International Organization for Standardization (ISO);
- Issues industry labels (i.e., JSMEA Genuine Product); and
- Exchanges information across the industry at meetings of our Council of Counterfeit Products and work with outsiders.
- New-Generation Marine Engineer Association

- JSMEA creates environments for educating and training employees of its member companies; more specifically, we organize seminars on industry trends, offer courses for English for ship machinery and equipment production, provide on-board education and training, education and training for new & young employees; and
- Has the industry more widely known among students by endowing lectures on ship machinery and equipment and holding job fairs and seminars at universities and colleges.

- JSMEA maintains and enhances our relations with overseas customers through participation in international exhibitions and visits to various enterprises;
- Develops new markets by conducting seminars overseas to introduce Japanese ship machinery and equipment products;
- Conducts market research by having our overseas representatives compile reports; and
- Publishes a public relations newsletter, JSMEA News, for overseas customers.

- JSMEA shares and exchanges information to overcome challenges by organizing meetings of our Offshore Development Strategy Review Board, Windfarm Vessel WG;
- Forges relations with relevant parties by sending representatives to visit offshore development and related companies, and hold networking receptions; and
- Has the industry more extensively known in the offshore development market through attendance at international exhibitions.