## Mid-Term Business Plan 2020



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Mitsui E&S Holdings Co., Ltd.





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## 1. Mitsui E&S Holdings Group Philosophy

The Mitsui E&S Group has renewed its own awareness of the reasons for which it exists in view of changes in the surrounding circumstances as well as its own reforms and has revised its Management Policy and Standards of Conduct.

## Company Philosophy

The company philosophy shapes the raison d'être and mission of the company.

# To continue working as a company trusted by society and individual through products and services we offer

#### Management Policy

The Management Policy sets out the direction of the company toward the realization of the Company Philosophy.

Achieve new value creation together with customers Seek a sound financial structure and steady profit

Construct an environment for working healthily and safely

#### Standards of Conduct

The Standards of Conduct provide the foundations for the actions of our employees.

Endeavor to provide simple, unique and practical products and services









#### 2. Mitsui E&S Group's Vision and Strategy Structure

On the basis of structural improvements following the Business Revival Plan, we will clearly concentrate business and collaborate during the Mid-Term Business Plan 2020 to strengthen the foundation of our business. Using the knowledge and expertise we have cultivated, we aim to become a <u>company adding digital value to all machines</u>.





In addition to disposal of assets, personnel reduction and reassignment, we implemented an alliance strategy aimed at reforming the Group's business structure.

Business Revival Subject		Target and Policy		Achievements	Issue
Reinforcement of financial structure	Sell-off of businesses and assets	<ul> <li>Ratio of net interest-bearing debt to EBITDA of less than 5</li> <li>Total asset turnover of more than 0.8</li> </ul>		<ul> <li>Businesses and assets worth around 100 billion yen sold off<sup>1</sup></li> <li>Total asset turnover of 0.94 (Mar. 2020)</li> </ul>	<ul> <li>Reduce interest-bearing debt</li> <li>Exit from unprofitable businesses</li> </ul>
	Reduction of fixed costs	Transfer of around 1,000     employees		<ul> <li>Staff transferred inside and outside the Group</li> <li>Call for 200 voluntary separations at the Chiba Shipyard</li> </ul>	Reduce the functions of the head office
	Increase in equity capital	Attain equity ratio of at least 20%		Disposal of business assets     prioritized	Carry out capital measures
Reform of business structure	Strengthening of the Machinery and Systems Business and the Ocean Development Business	• Ordinary income ratio of more than 4%	Shift focus to the Power- Mechatronics business	Staff reassigned to increase resources of Research & Development and After-Sales Services	<ul> <li>Expand to overall marine propulsion systems</li> <li>Push ahead with incorporation of digital modules</li> <li>Expand businesses overseas</li> </ul>
	Reorganization of the Shipbuilding Business		Create markets and increase profit ratio through alliances	<ul> <li>Split into the Naval Ship Business and the Marchant Ship Business</li> <li>Basic policy agreement with Mitsubishi Heavy Industries, Ltd. and Tsuneishi Shipbuilding Co., Ltd.</li> </ul>	<ul> <li>Determine details about the framework for collaboration</li> <li>Establish new profitable businesses</li> <li>Expand businesses to overseas</li> </ul>
	Reorganization of the Social Infrastructure Business			<ul> <li>Businesses concentrated in Mitsui E&amp;S Steel Structures Engineering</li> <li>Basic policy agreement with Sumitomo Mitsui Construction Co., Ltd.</li> </ul>	
	Reorganization of the Engineering Business	<ul> <li>Finish business exit and staff reassignment</li> </ul>		Governance structure reconstructed by the Engineering Business Management Dept.	<ul> <li>Carry out civil engineering projects of power plant</li> <li>Slash work costs</li> </ul>

<sup>1</sup> Business and asset sell-off: Showa Aircraft Industry Co., Ltd., Mitsui E&S Plant Engineering Inc., land for the Chiba Shipyard, renewable energy facilities and others



## 4. Outlook of Financial Structure in Mid-Term Business Plan 2020

We will focus on the business domains of Machinery and Systems and Ocean Development while collaborating in other businesses. We will reduce the sizes of business and staff to boost debt servicing capacity. The Mid-Term Business Plan 2020 set the consolidated net sales target at approx. 770 billion yen and the consolidated ordinary income ratio at 4%.



\* Net sales of the Ocean Development segment (MODEC) represents figures estimated by the Company on the basis of interviews.





We will strengthen our financial structure through concentration on core domains and business reorganization.

Item	Target (for FY2022)	Viewpoint	
Consolidated net sales	770 billion yen	<ul> <li>Work to achieve steady growth without seeking any specific scale</li> </ul>	
Consolidated ordinary income ratio	4%	<ul> <li>Improve income ratio by concentrating on high value-added core domains and by cutting costs</li> </ul>	
Total asset turnover	0.8 or more	<ul> <li>Increase capital efficiency by selling assets and reorganizing businesses</li> </ul>	
Ratio of net interest- bearing debt to EBITDA	Less than 5.0	<ul> <li>Appropriate cash flows created for the repayment of interest-bearing debt</li> </ul>	
Facility investments	42 billion yen*	<ul> <li>Investment in replacements in the core domains (Machinery and Systems)</li> <li>Respond to the shift to teleworking.</li> </ul>	
R&D investments	14 billion yen*	<ul> <li>Invest in research and development for functional enhancement in the core areas (Machinery and Systems) (e.g. energy conservation, environmental friendliness and automation)</li> </ul>	
Financial investments	59 billion yen*	<ul> <li>Financial investments for development projects in consolidated group</li> </ul>	

\* Total figure during the period of the Mid-Term Business Plan 2020

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#### 6. The Era of Power-Mechatronics

The business conditions of the marine equipment industry are closely linked to those of the shipbuilding industry. Trends in technology have changed while cyclical rises and falls have repeated in a cycle of roughly 25 to 35 years.

Towards 2035, a design paradigm shift will occur regarding low-carbon technologies and the transition to mechatronics.



Data in and before 1967 are on a launched tonnage basis and those in and after 1968 on a completed tonnage basis.

## 7. Power-Mechatronics Products and Digital Modules

According to the Company's definition, Power-Mechatronics products are <u>power machinery (heavy electrical equipment</u> <u>and heavy machinery) including motors and engines equipped with electronic control components and digital modules</u>. While products such as electronically controlled engines already exist, their technologies are still in the course of development. Further progress in the incorporation of digital modules and the integration of entire systems is awaited.



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#### 8. Power-Mechatronics Market Forecast

From the upwards trends of three products handled in the Machinery and Systems business portrayed below, opportunities to introduce Power-Mechatronics products to the market are expected to gather momentum in individual businesses. In addition, replacement demand is expected to continue in view of the introduction of 5G (increase in communication speed), environmental regulations and rapid technological evolution.



9. Strategy in the Mid-Term Business Plan:

Concentration of Business and Collaboration

In accordance with the alliance strategy, we will work to create markets in which Machinery and Systems business products will be introduced to expand the LSS<sup>1</sup> business.

On the basis of the fundamental technologies cultivated in the field of marine logistics and transportation, we will focus our energy on the incorporation of digital modules into Power-Mechatronics products.



\*1 LSS is Lifecycle Solution Service, a service offered continuously from the release of a product onto the market until its withdrawal. \*2 NOAH is New Offshore Adapted Hull, a next-generation hull for floating production, storage and offloading (FPSO) systems.





## 10. Shift to Stock-Type Business Model

We will operate not only a flow-type business model but also provide services centering on products with digital modules (the LSS business). We will thus shift to a stock-type business model in which we continuously provide services to customers to generate revenue over the long term.

Mitsui E&S Systems Research Inc. (MSR), a Group company, will provide services using digital modules to respond to diverse customer needs in the domain of electronic device and control systems, ranging from the proposal of related products to after-sales services.





## 11. System Envisioned for the Machinery and Systems Business

For example, the incorporation of digital modules into Power-Mechatronics products will pave the way for centralized remote control of all operations including loading, sailing, mooring and unloading from a control room. Solving customers' problems through combinations like this will accelerate the shift to a stock-type business model.









In the Merchant ship business, focus on fabless business that capitalizes on strength in design and development capabilities.





With the capital participation of Sumitomo Mitsui Construction, we will increase the corporate value of subsidiaries involved in the social infrastructure business.

Boost the competitiveness of the social infrastructure business and introduce products for maintenance and inspections to create markets



In the ocean development business and the engineering business, we will push ahead with overseas market expansion in domains where their strengths may be displayed.

Expansion of the ocean development business



#### Expansion of the engineering business through the provision of gas-related equipment and engine generator



Gas-related equipment engineering

using renewable energy



#### 14. Overview of Management Base Reform

We will strengthen unification to achieve a shift to a simple management style without owning assets. We will reduce business size and domains and place an emphasis on balance sheets.



