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Mitsui E&S Holdings Co.,Ltd.

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## 1. Mitsui E&S Group's 2025 Vision

# What we want to be?

A group of professional engineers to pursue the innovation of values for our better society



Social & Industrial Infrastructure (20%)

# Profit target of FY2025

Aim for net sales of 1,100 billion Yen and ordinary profit ratio of 6.0% in three core business domains

- 1. Environment & Energy (50%)
- 2. Marine Logistics & Transportation (25%)
- 3. Social & Industrial Infrastructure (20%)



Environment & Energy (50%)

## 2. Roadmap to 2025

- MBP14: Basis Development
- MBP17: Revolutionary Change
- MBP20: Significant Advance
- MBP23: Accomplishment of the Goal

**Targets of MBP17** 

Net sales: 920 billion Yen

Ordinary profit ratio: 4 %



We are executing MBP17 in the phase of "Revolutionary Change" to achieve 2025 Vision

Improvement of profitability is a key success factor

#### 2. Business Environment

#### General

- In the medium to long term, market expansion expected by economic growth in emerging countries and development of advanced information society
- In the short term, uncertain outlook of global economy, including forming economic blocs and slowing down of growth in emerging countries
- Increased volatility in exchange market and in the field of resources and energy industry
- Due to the evolution of IT (IoT, AI technology), sharing economy market is expected to grow rapidly

#### **Environment & Energy**

- Offshore oil and gas development projects: Predicted increase again in the medium to long term
- Electricity and other energy: Demand increased driven by development in emerging countries
- Renewable and clean energy: Demand continued due to increasing awareness of environmental issues

#### Marine Logistics & Transportation

- Shipbuilding, marine engine and equipment: Prolonged severe price competition due to decline in new shipbuilding demand
- Container Cranes: Increased demand in Southeast Asia, Latin America, etc. including its renewal and upgrade
- Maintenance, inspections and upgrades: Continued strong demand for environment, energy saving and life extension related, even under uncertain outlook of global economy
- Gas products: Increased demand due to global shift to the clean energy

#### Social & Industrial Infrastructure

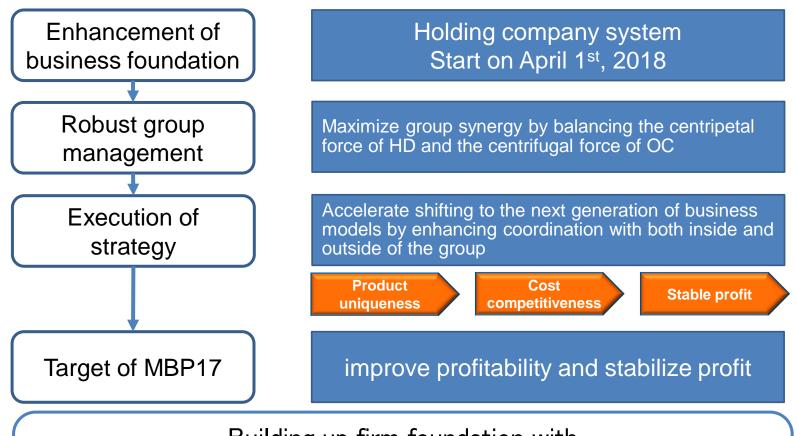
- **Industrial machinery**: Increased demand for upgrades and renovations despite continued weak demand in new construction
- **Public works projects**: Growth in demand including large-scale upgrades and renovations amid full-scale implementation of measures to address deteriorating infrastructure
- **Defense and security**: As security measures in the surrounding seas, the importance of preparation and maintenance of naval vessels and government vessels increases

# 1) Our target and key strategy

Target of Mitsui E&S Group at MBP17 Improvement and stabilization of the profit by maximizing synergy of the group Key Strategy 2 Key Strategy 3 Key Strategy 1 Expanding & enhancing Reforming structure of Improving added value of manufacturing & EPC products & services ancillary services Cost **Product** Stable Profit uniqueness competitiveness Build a swift and ◆ Expansion of service Enhance planning and flexible production proposal capabilities domains and areas system Evolution of services Enhance product Build up a flexible EPC development using IoT execution system capabilities Group management Business foundation

Taking advantage of the demand opportunities for energy saving, environmental response (clean energy) and infrastructure renewal with the strength of synergy and value chain of the group

# 1) Our target and key strategy (Action)



Building up firm foundation with "Enhancement of business foundation" and "Robust group management", to accelerate execution of each strategy for the achievement of MBP17

## 2) Business foundation (Shifting to a holding company system)

Challenges for Achieving MBP17

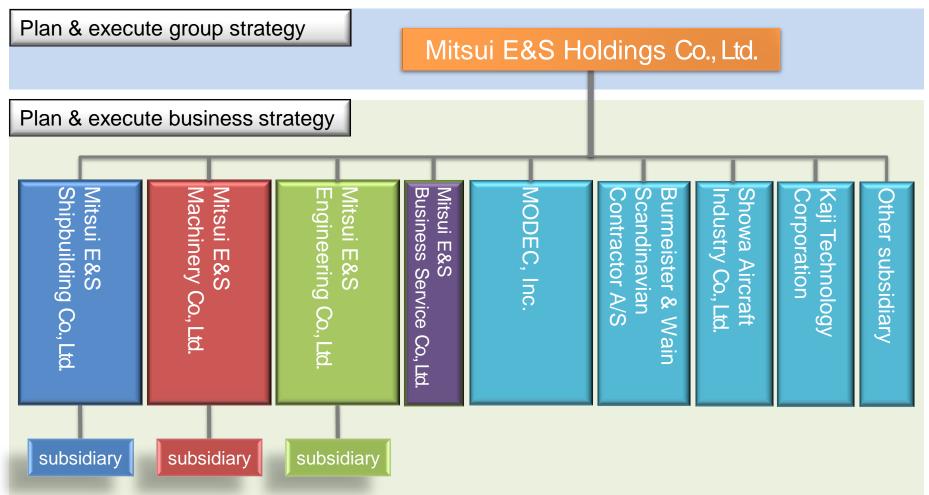
- To establish the independent business units in the group to make their own profit by themselves with their own responsibility
- To build a flexible framework that can speed up the execution of strategies such as business selection and concentration, collaboration with other companies, development of M&A etc.

To build up a flexible system with an impetus for structural change

Shifting to a holding company system Mitsui E&S Holdings Co., Ltd.

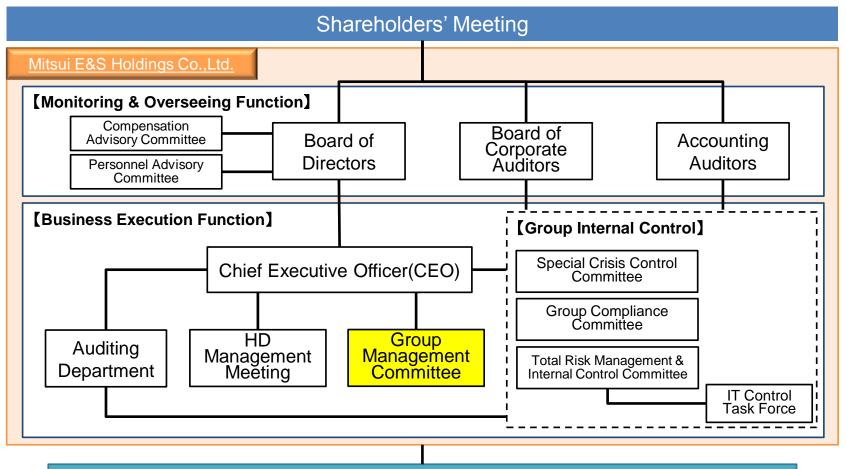


## 2) Business foundation (New organization)



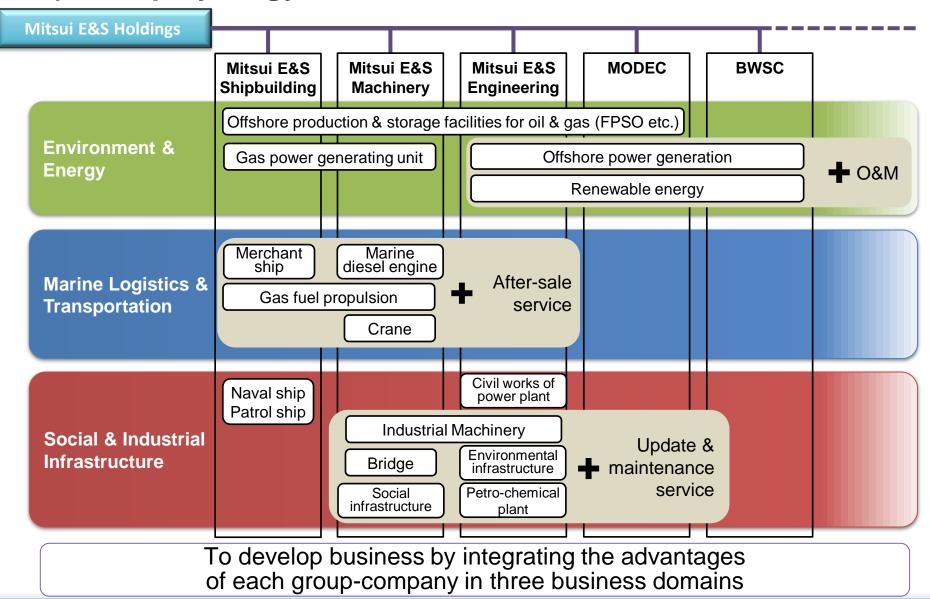
To separate group management and business management with the clear definition of each organization, function, role and responsibility

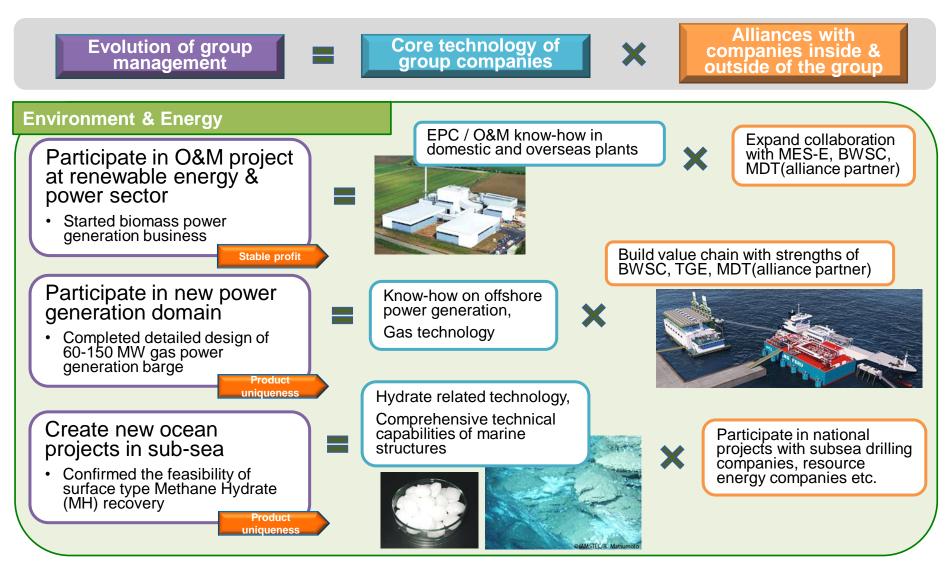
## 3) Group management (Strategy of group management)



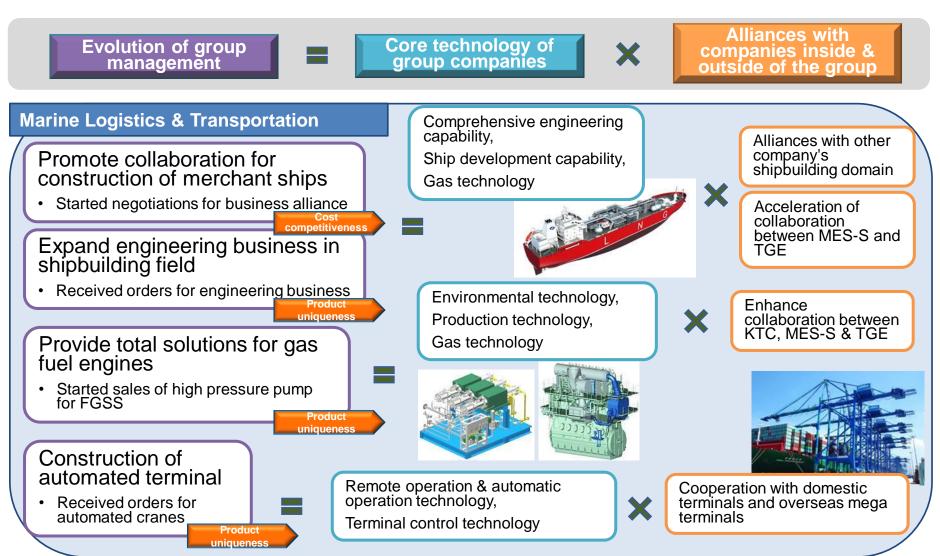
#### Subsidiary directly under holding company

To establish "Group Management Committee" to discuss and make decisions on the management strategy of the entire group

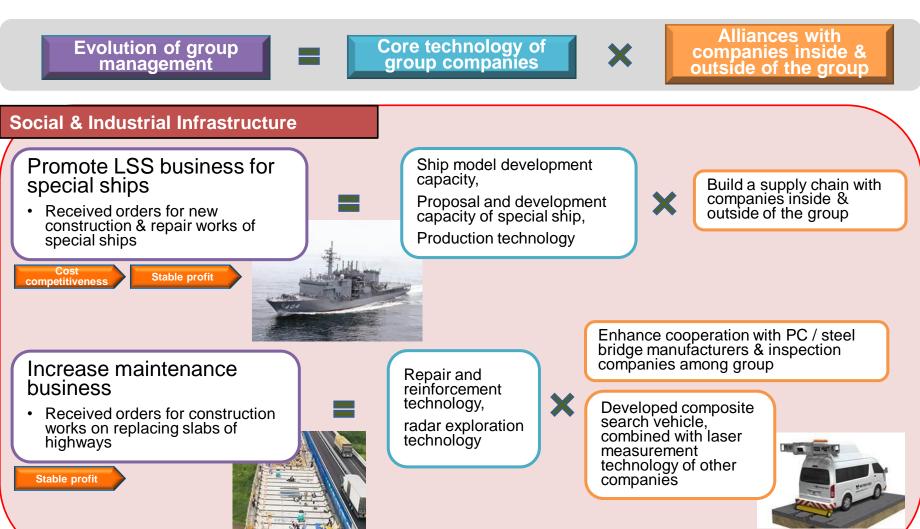




<sup>\*</sup> MES-E: Mitsui E&S Engineering, TGE: TGE Marine Gas Engineering, MDT: MAN Diesel & Turbo



<sup>\*</sup> MES-S: Mitsui E&S Shipbuilding, FGSS: Fuel Gas Supply System, KTC: Kaji Technology Corporation



<sup>\*</sup> LSS: Lifecycle Solution Service

## 5) Function and role of HD and OC (Centripetal & centrifugal force)

# Strategy formulation from group management viewpoint

#### **Holdings (HD)**

Centripetal force [Group management]

Cross-company coordination among the group

"M&A" and "Business selection and concentration"

Cash management in one group

### **Operation Company (OC)**

Centrifugal force [independence of OC]

Speed-up execution of strategy

Flexible strategy in accordance with the changes in business environment

Implement strategy flexibly in a timely manner by allocating group's resources to the critical business domain

## 5) Function and role of HD and OC (Risk management)

# Risk management for improving profitability

Holdings (HD)

Group governance system

Audit of operating companies

**Operation Company (OC)** 

Specific responsibility on business development & its profitability

Up-graded risk management system

(establish internal control and audit organization)

Reinforced project management system

(establish project management department)

OCs up-grade risk management system HD organizes overall group governance system

## 5) Function and role of HD and OC (Human resources)

Human resource development strategy in the environment where the domestic population shrinks

### **Holdings (HD)**

Strategic human resource management (Job rotation among the group)

Common training system
(Improvement of skills and
encouragement from personnel with
different back ground)

### **Operation Company (OC)**

Development and allocation of human resources corresponding to business needs

Multiple job experience for career development (Job rotation in OC)

Development of multi-talented human resources who can work with leadership in various business fields

## 5) Function and role of HD and OC (R&D)

#### Clarify the role sharing between Holdings and operating companies

#### **Holdings (HD)**

#### [Cross-company coordination]

- Share & utilization of R&D achievements
- Mid- and long-term R&D strategies
- Maintenance and reinforcement strategy for common basic technologies

#### **Operating Company (OC)**

#### [Enhancement of business]

- Technology development as per business plan
- Maintenance and reinforcement strategy for specific technologies used in their business and products

R&D institution: Responsible for enhancement of common basic technologies and new technologies

Akishima Laboratories (Mitsui Zosen) Inc.

Mitsui E&S Technical Research Co., Ltd.

Focus on the selected R&Ds critical for social issues and needs
Not only the usage of our own internal resources,
but also the collaboration with outside parties

## 6) Target for FY2019 - Consolidated profit & loss

(Billions of Yen)

	Target FY2019
Net Sales	920
Ordinary Profit	37
Ordinary Profit Ratio	4%
ROIC	6.5%
Interest-bearing Debt	270 or less

Assumed Exchange Rate 105 JPY/USD

## 6) Target for FY2019 - Consolidated investment plan

(Billions of Yen)

	investment plan
R&D investments	13
Facility investments	40
Financial investments	72

R&D investments

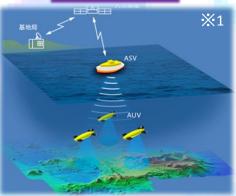
Prioritize on innovation and improvement of profitability

Prioritize on improvement of productivity and profitability

Prioritize on structural reforms and profit stabilization

# Transformation and evolution of business model through IT utilization

#### Marine Development



#### Join Team KUROSHIO

Challenge undersea mapping which collaborates and operates unmanned offshore repeater and multiple autonomous underwater robots simultaneously

#### Production System



Promote application of factory IT, such as participation in affiliated business of maritime productivity revolution (i-Shipping)

#### Marine Logistics



Continue automation and remote monitoring of container terminals contributing to improvement of efficiency and reliability on cargo handling

Planning & Product development

Design & Procurement Production & Construction

#### Ancillary Services





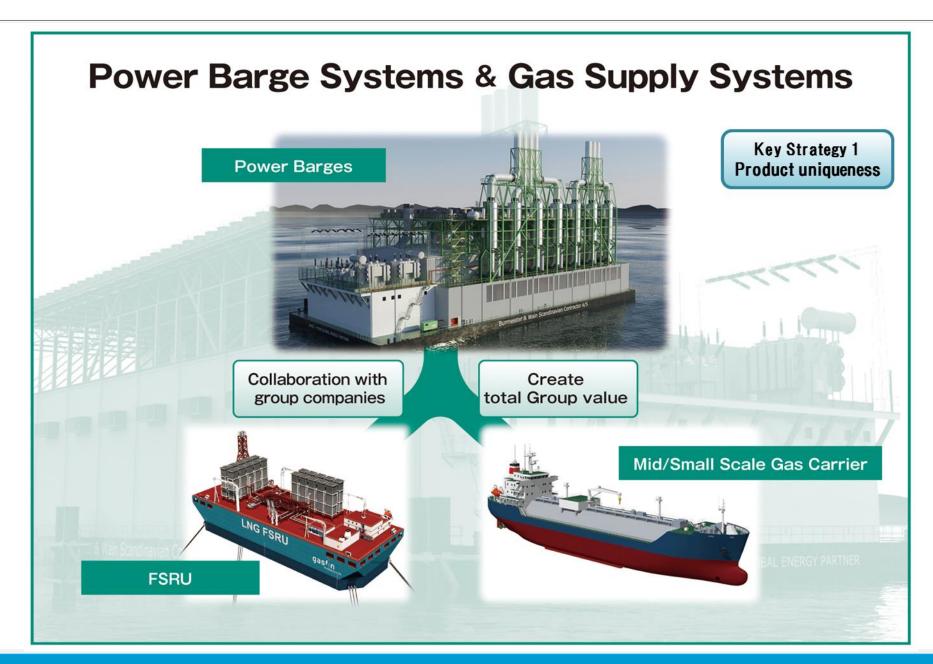
Started operation of nextgeneration engine condition monitoring system (CMAXS e-GICSX)

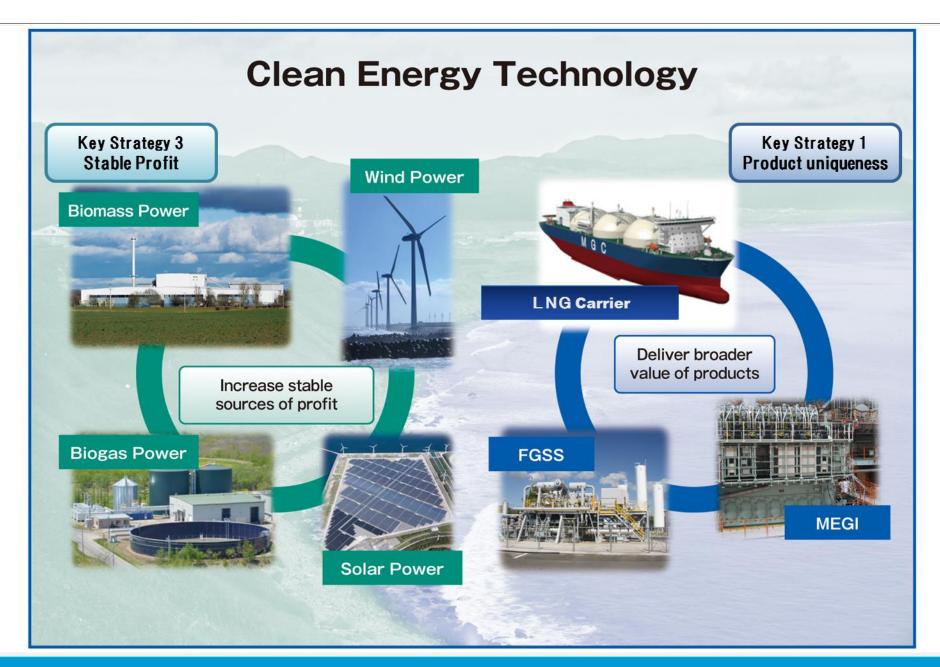
Preventive maintenance for main engine can be developed by diagnosis technology utilizing Big Data

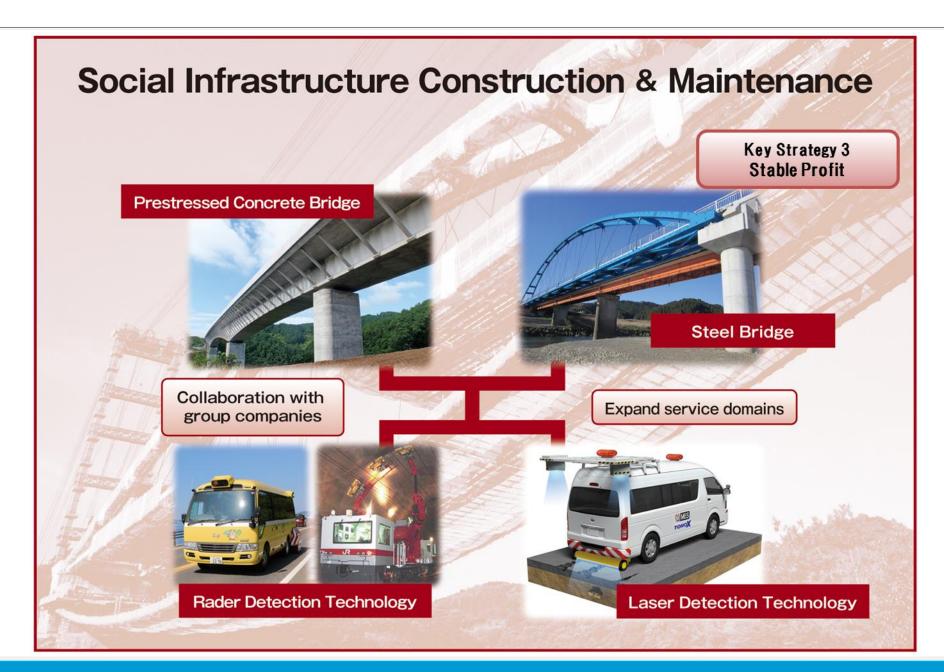
#### **XQuote** source

- 1. Team KUROSHIO's website
- 2. Ministry of Land, Infrastructure and Transport website
- ClassNK Consulting Service website

Operation & Maintenance







# 2018.04. MITSUI E&S STARTING.

A wellspring of new solutions.

