

CO₂ Capture Plant (U.S.)

Current Status Assessment

Strengths S	Commercial Ships	 Unparalleled environmental and energy-saving technologies Gas-handling technologies cultivated on LNG/ LPG carriers
	Engineering	 Unique CO₂ capture technology with abundant commercial records around the world Engineering capabilities that respond to the decarbonization business (Ammonia, Methanol, CO₂ capture technology, etc.) applying abundant experience Advanced project management and system integration capabilities for chemical plants and transportation systems Integrated response capabilities for transportation systems spanning from planning to design, manufacturing, construction, testing, operation and maintenance
	Environmental Systems	 Comprehensive engineering capabilities for waste-treatment plants spanning entire project phase, from EPC to 0&M Plant provided with after-sales service based on extensive track record as a plant contractor
	Metals Machinery	 Full line from upstream to downstream with global footprints Differentiated technologies in particular in combining automation and implementation of AI Utilization and integration of MHI Group technologies particularly in the area of decarbonization
	Machinery Systems	• Broad scope of business fields and wide-ranging mechatronics technical capabilities
Weaknesses	Commercial Ships	• Relative cost competitiveness of large hull ratio ships (e.g., cargo ships)
	Engineering	Volatility in orders and profit
	Environmental Systems	Cost competitiveness due to build-to-order manufacturing structure
	Metals Machinery	Resource flexibility
	Machinery Systems	 Predominantly mature businesses, largely in Japan
Opportunities O	Commercial Ships	 Environmental regulations aimed at low-carbon and carbon-free initiatives in marine transportation Growing demand for improved vessel safety/efficiency
	Engineering	 Global acceleration of decarbonization in all industrial sectors Growth in demand for 0&M^{*1} / service business
	Environmental Systems	 Growing commitment to decarbonization and environmental impact mitigation Digital automation of plant operations
	Metals Machinery	• Growing demand from governments to steel producers to decarbonize and mitigate the envi- ronmental impact of steel production, growing demand for high-value-added products such as magnetic steel sheets and high tensile strength steel sheets
	Machinery Systems	• Extension of new (mobility) businesses in response to electrification and smartification (IoT, AI, CASE* ²) of society
*1 O&M: Operati	ion & Maintenance *2 CASE: Connected, A	utonomous, Shared & Service, Electric
Threats T	Commercial Ships	• Intensified competition with competitors • High prices of materials, equipment and supplies
	Engineering	 Increase in new entrants Accelerated development of new decarbonization technologies by competitors
	Environmental Systems	Intensified competition with competitors Long-term domestic market shrinkage
	Metals Machinery	Competitive market
	Machinery Systems	• Shrinking domestic market for existing businesses and intensifying competition for develop- ment in the new fields of electrification and smartification

Overview of FY2021 and Priority Strategies in the 2021 Medium-Term Business Plan

Due to global increases in steel demand, orders in metals machinery are expanding, and the commercial ships and engineering markets are also trending toward recovery, resulting in consolidated orders received rising year on year to ¥890.9 billion. Revenue rose year on year to ¥651.8 billion, driven mainly by increases in metals machinery and environmental systems. Despite some additional expenses in overseas construction work, the effects of structural reforms and other factors led to increases in engineering and metals machinery, resulting in profit from business activities recording improvement over the previous year, to ¥23.6 billion. Under the 2021 Medium-Term Business Plan, we are pursuing initiatives tailored to each business's characteristics and market environment in the aim of stabilizing and enhancing its earning capacity. In addition, in our domain as a solutions provider for environment-friendly products that contribute to the realization of a decarbonized society, we are expanding business opportunities by internal flexible mobilization of human resources and by sharing technology across the businesses. We will continue to strengthen service businesses leveraging digitalization and expand life-cycle businesses that support customers throughout entire life cycles of facilities and plants.

General	 Pursue initiatives tailored to each business's characteristics and market environment in the aim of stabilizing and increasing its earning capacity Expand business opportunities by internal flexible mobilization of human resources and by sharing technology across businesses as a solutions provider for environment-friendly products that contribute to the realization of a decarbonized society Strengthen service businesses leveraging digitalization Expand life-cycle businesses that support customers throughout entire life cycles of facilities and plants
Commercial Ships	 Build high-density, outfitted ships like government vessels and ferries Extend engineering businesses in response to environmental regulations, etc.
Engineering	 Strengthen initiatives in the clean-fuel business (Ammonia, Methanol, Hydrogen) Expand applications in industrial areas through expansion of the lineup of CO₂ capture systems (large to small) Expand O&M and service business through proprietary remote monitoring and operational support services using the developed digitized platforms
Environmental Systems	 Strengthen ability to provide best solution and cost competitiveness to win orders for new construction projects Upgrade engineering capabilities to drive sustained profit growth
Metals Machinery	 Focus R&D on strengthening decarbonization and other environmental initiatives centered on collaboration within MHI Group Expand life-cycle businesses (expand maintenance service businesses, roll out advanced services that leverage digitalization) Improve cost competitiveness and diversify our supply chains
Machinery Systems	 Enhance management efficiency through internal resource sharing and flexible mobilization of human resources Strengthen sale of products and expand services focusing on adding value to customers' needs through the utilization of DX Accelerate development of new products and new businesses combining technologies

Business Initiatives in the 2021 Medium-Term Business Plan