

Technical Review Special Edition: New Products & Technologies

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Welcome to the special edition of the technical review featuring our new products and technologies.

First of all, may I express my deepest sympathies to all those affected by the Noto Peninsula Earthquake that occurred in January 2024.

Mitsubishi Heavy Industries, Ltd. (MHI) Group has started helping to restore the infrastructure and MHI's other products in the affected area. We sincerely pray for the earliest possible recovery.

Japan reclassified COVID-19's category to Class 5 under the Infectious Diseases Control Law in May 2023, lifting various restrictions that had been imposed. While socio-economic activities are on a recovering trend, the business environment remains unclear because of continuing conflict in Ukraine, mounting tensions in the Middle East, and entry into the year of elections throughout the world, to name a few. The global risks surrounding us are too many. Among them, taking climate action is a top priority. At COP28 held in November 2023, it has been acknowledged that there is a mismatch between the current situation and the Paris Agreement goals, and the outcome document calls for immediate action. In order to achieve carbon neutrality, we consider that it is pivotal to lay out practical solution procedures and proceed with the transition while taking economic feasibility into account, as proposed in our "MISSION NET ZERO".

Under these circumstances, since 2018 we have been introducing "MHI FUTURE STREAM" as an initiative to gain insight into the future of MHI Group.

Last year, as part of this initiative, the world megatrends surrounding MHI Group were reviewed based on the changes in the international situation, technological innovation and such happening on a daily basis. The newly obtained megatrends were then reorganized into the issues that MHI Group should tackle, which are presented in this special edition. We will continue to review the megatrends as needed in order to help solve social problems.

As part of our latest achievements in new products and technologies, this special edition also presents a total of 18 reports. Some pertain to energy transition and the smartification of social infrastructure, specifically including the development of hydrogen production technologies and the efforts to improve logistics work efficiency and reduce manpower requirements. Others are related to the underlying technologies of safe and secure products and services, for example, the technologies for analytic evaluation, production, inspection and control systems.

Dedicating ourselves to developing technologies that are in need by the public, we will continue to help achieve a sustainable, safe, secure and comfortable society. Your continued guidance and support would be greatly appreciated.