

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.

Recent years have seen the increase in the severity of social problems such as global warming, energy issues, serious natural disasters and security issues that are affected by changes in international situations. Facing these social issues, Mitsubishi Heavy Industries, Ltd. (MHI) Group is actively investing in research and development to make society sustainable through a technology revolution.

Specifically, in energy fields, we are stepping up our efforts to realize a decarbonized society by improving energy efficiency in power generators including gas turbines, promoting the use of renewable energy sources and developing nuclear systems that can ensure safety and efficiency. In the field of defense, we are focusing on developing advanced technologies to sustain and empower national security. Through these efforts, we offer the foundation for a sustainable future.

In addition to the development of technologies that support social infrastructure, we have been working to offer new value in response to rapid changes in social environments. In this context, the MHI Group launched “MHI FUTURE STREAM” - our initiatives for future insights - in 2018. To highlight the progress of such initiatives, this edition presents our challenges that are based on megatrends and undercurrents of the changing society.

This edition presents 19 reports that look at the development of hydrogen production technologies, streamlined operations and human resource minimization at logistics and manufacturing sites in relation to energy transition and smart social infrastructure, casting and composite materials technologies to ensure enhanced productivity and decarbonization at the same time, manufacturing and testing technologies as platform technologies for safe and secure products and services, etc.

To respond to the expectations of society, we will continue to develop technologies to help realize a sustainable, safe, secure and comfortable society. Your continued guidance and support would be greatly appreciated.