Management Review of Progress with Project Change—Toward the Next Medium-Term Management Policies

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Project Change emphases: Management that embraces ESG values

Return to growth trajectory

Further strengthen earnings foundations Expand lifecvcle businesses

Overcome operating environment changes to drive value creation

Reallocate personnel Pursue diversity and inclusion Adopt new work practices

Financial strategies

Strengthen cash flow generation Allocate funds optimally Build solid financial position

Create growth businesses that address social issues



Develop robust, economically and eco-friendly social infrastructure

Prevent and mitigate disasters 3

Carbon solutions

Materialize carbon-free, circular economies and comfortable and secure decentralized communities

Become carbon-free

Second-Quarter Results Review

Situation through Q2

Aero Engine, Space & Defense business continuing to recover Revenues and earnings rose on lifecycle business expansion and stronger cost structure All segments back in black



Second-half initiatives

Targeting record operating profit by strengthening revenue bases of all businesses in light of changing operating climate and risks

Returning to Growth Trajectory

Progress

Focused on after-sales service and reinforced cost structure to strengthen earnings foundations

Reinforce cost structure

- Aero engines: Steadily enhanced productivity
- Three onshore segments: Shortened lead times and streamlined overall production processes

Expand lifecycle businesses

- Nuclear power: Steady implemented safety measures
- Bridges: Expanded upgrades and repairs on aging infrastructure
- Industrial machinery: Deployed smartphone-based FURNACE EYE system to remotely monitoring and control vacuum heat treatment furnace operations



Visualize





Convey





Decipher

Clearer production plant visualization

Digitally communicating about equipment operations

Data-driven for deciphering engineering



FURNACE EYE remote monitoring and control system for vacuum heat treatment furnaces

Future initiatives

Expand lifecycle businesses (to increase environmental value and lower environmental impact) and extensively reinforce cost structure bolster (cut and streamline variable and fixed costs)

Creating Growth Businesses: Carbon Solutions

Progress

With potential of ammonia as decarbonized energy source gaining broad acceptance, accelerated efforts to explore fuel production and develop utilization technologies

- Japan Continued 20% ammonia co-firing in demonstration project at Hekinan Thermal Power Station, and will bring forward launch of large-scale cofiring to FY2023
 - Achieved carbon dioxide-free power generation with liquid ammonia-fired gas turbine
 - Initiated R&D for floating ammonia storage and regasification barge with NYK Line, Nihon Shipyard, and Nippon Kaiji Kyokai
 - Established Co-creation Research Center with Tohoku University





JERA's Hekinan Thermal Power Station

IHI 2MW-class gas turbine



Future initiatives

Establish global value chain covering production through utilization of ammonia as clean fuel and participate in upstream and downstream activities

Creating Growth Businesses: Carbon Solutions

Progress

Accelerated development of carbon cycle technology leveraging methanation* as key technology to attain carbon neutrality for industry

Developing synthetic methane production technology

 As part of Green Innovation Fund project, joined hands with Tokyo Gas and JAXA to start innovating methane production technology using low-temperature processes

Developing sustainable aviation fuel technology

 Began collaborating with Singapore governmentaffiliated research institute in technology to synthesize this fuel

Applying technology in general industry

 Launching compact methanation equipment to meet pilot operations needs of factories, laboratories, and business sites to attain carbon neutrality

* Methanation: Hydrogenation to convert carbon dioxide to synthetic methane



IHI concluded a joint research agreement with Singapore's Institute of Sustainability for Chemicals, Energy and Environment



Compact unit can synthesize 12.5 normal meters cubed per hour of methane

Future initiatives

Collaborate with customers in various industrial applications to upscale and accelerate commercialization

Creating Growth Businesses: Air Transportation Systems

Progress

Developed weight saving and electrification technologies, starting with aero engine technology

Weight saving

- Applying carbon fiber reinforced polymers and ceramic matrix composites to aero engines
- Developing technology to apply new materials to airframes to help enhance aircraft fuel efficiency

Carbon fiber-reinforced polymer applications



Note: Undertaking joint research for JAXA's En-Core Project (2018 through 2023)



Composite panels for aircraft fuselage structures ©IHI Aerospace

Electrification

- Developing world's first aircraft jet engine-embedded electric machine: Mounted directly on engine main shaft for high-capacity power generation
- Combining power electronics air-cooling and other systems to enhance aircraft energy efficiency through electrification

Electrification R&D



t engine-embedded electric machine Power electronics air cooling system

Future initiatives

Further develop weight-saving and electrification technologies that help enhance the environmental performance of air transportation and build competitive edge

Creating Growth Businesses: Maintenance and Disaster Prevention and Mitigation

Progress

Built disaster prevention and mitigation systems in social infrastructure field and expanded uses of various types of data

Protective technologies

- Deployed bridge maintenance management system and GBRAIN[®] water gate inspection support system
- Established vessel location information consortium

Measurement technologies

- Expanding scope of weather information provision by using POTEKA[®] high-density weather information service
- Preventing forest fires with groundwater level observation systems
- Developing environmental value platform

Rocket and satellite usage

 Augmenting launch services by providing satellite databased solutions



Example of leveraging management systems to resolve local issues



Epsilon Launch Vehicle (©JAXA)

Future initiatives

Enhance resilience of infrastructure and natural resources by leveraging synergies between protection, measurement, and space-related technologies

Maintaining a Resilient Business Structure

Progress

- Took steps to respect human rights and promote diversity and inclusion, as vital ESG management challenges
- Developed human resources to drive digital transformation

Respecting human rights

- Undertook due diligence to identify key human rights issues and assess impacts
- Monitored supplier CSR procurement and engaged in dialogue with them

Promoting diversity

 Providing diverse experiences through in-house sidejob program and career development to encourage new ideas

Selected as one of Digital Transformation (DX) Stocks 2022

 Recognition of business model business process reforms and digital transformation efforts in developing human resources



Side-job participants participating in NHK BS television show called Night of the Makaizo Society





Future initiatives

- Develop and hire innovators who can address changes in operating climate
- Fulfill responsibilities in respecting human rights as business that tackles global issues

Project Change Period of preparing to optimize business portfolio

Return to growth trajectory

Further strengthen earnings foundations Expand lifecycle businesses

Create growth businesses that address social issues

Carbon solutions Maintenance and disaster prevention and mitigation

Air transportation systems

Overcome operating environment changes to drive value creation

Financial strategies

- From preparatory transition period to one for investing to drive sustainable growth
- Leverage solid revenue base to generate cash in increasingly uncertain operating climate

Priorities of next medium-term management policies

Focus investments on growth businesses Improve social and environmental value

Establish business foundations for investing in growth Enhance cash generation capabilities

Business structure to overcome operating environment changes Transformation

Digital Innovators transformation

IHI Group ESG management



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