Management Review: Progress with Project Change



November 9, 2021

IHI Corporation

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Overview of Project Change

Second-Ouarter Review



Positioning

Group Management Policies 2019

COVID-19 FY2019~2021

Transform

Project Change

FY2020~2022

Reform businesses in response to operating climate changes

Next medium-term management plan

FY2023~2025

Complete business portfolio optimization, becoming enterprise with multiple core businesses

Sustainable arowth

Relentlessly explore new opportunities for businesses that can resolve social issues

Retain basic concept

Project Change emphases: Management that embraces ESG values

Return to growth trajectory

Further strengthen earnings foundations Expand lifecycle 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

Materialize fulfilling lifestyles

Air transportation systems

Safe, comfortable, economical, and eco-friendly

Carbon solutions

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

Become carbon-free

Maintenance and disaster prevention and mitigation

Develop robust, economically and eco-friendly social infrastructure

Prevent and mitigate disasters

Second-Quarter Review

IHI

FV2021

Operating

profit margin

Summary

Progress assessment

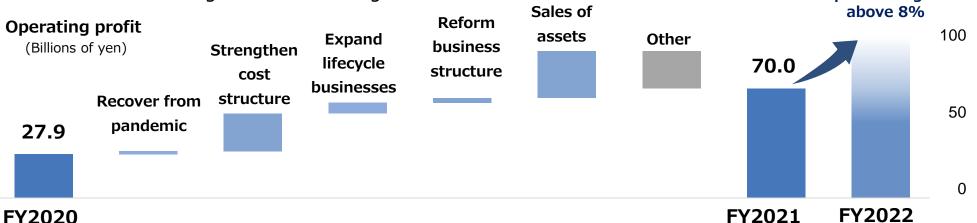
Progress Change

- Progressed steadily with measures, including to strengthen cost structure and expand lifecycle businesses
- Notwithstanding soaring raw materials and transportation costs and other external factors, reinforced earnings base to position IHI to reach FY2022 management targets

Results

- Revenue improved for all business areas
- Operating profit increased in three business areas and companywide (Social Infrastructure & Offshore Facilities earnings dropped owing to rising steel prices and transportation costs)
- In terms of profitability, all the profit items turned profitable, posting operating profit even after excluding fixed asset sales gains

	FY2020 Q2	FY2021 Q2	forecasts
Revenue	¥481.7 billion	¥516.5 billion	¥1,180 billion
Operating profit (loss)	(¥6.1 billion)	¥26.3 billion	¥70 billion
Operating profit margin	(1.3%)	5.1%	5.9%
Profit (loss) attributable to owners of the parent	(¥9.7 billion)	¥15.1 billion	¥35 billion



Growth Business Creation

Second-Quarter Review

Business environment

- Passenger demand for domestic and short-haul international flights recovering on vaccination progress
- Air cargo demand robust and exceeding pre-pandemic levels
- From FY2022, international passenger demand should recover on vaccination progress and domestic flight demand turnaround, with aero engine maintenance demand rising as more aircraft operate

Project Change progress

Recover from pandemic

Increased spare parts sales amid moderate aviation demand recovery

Strengthen cost structure Boosted productivity with new engines (by procuring materials and parts just in time and by digitizing processes to stabilize them

Expand lifecycle businesses Launched operations at Tsurugashima Works (reinforced structure to take advantage of recovery and growth in commercial aero-engine business)



Tsurugashima Works

Future initiatives

- Aviation demand trending upward, should recover further in and beyond FY2022
- Will prepare for rapid demand recovery by becoming more cost-competitive and building more efficient structure based on robust quality assurance setup

Resources, Energy & Environment

Second-Quarter Review



Business environment

- International decarbonization demand propelling fuel switching in power sector
- Carbon solutions and nuclear lifecycle businesses remain solid
- Southeast Asian engineering, procurement and construction operations and power systems lifecycle businesses overseas lackluster owing to pandemic

Project Change progress

Strengthen cost structure

 Reinforced project risk management in all project stages (initial estimates, project creation, contract conclusion and quotes, and implementation) to eliminate earnings downswings

Expand lifecycle businesses

- Created engineering environment and framework that eliminates resource overloads and shortages and swiftly shifted resources
- Applied new technologies employing digital processes, information and communication technologies, artificial intelligence, and drones

Reform business structure

- Entered small modular reactor market by investing in NuScale Power of United States
- Transferred IHI Plant Services pharmaceutical EPC business

Future initiatives

- Accelerate resources shift to carbon-neutral projects
- Secure orders through work on Southeast Asian projects that stagnated owing to pandemic
- Accelerate global lifecycle business expansion

Industrial Systems & General-Purpose Machinery



Business environment

All businesses recovering from pandemic-induced downturn

Second-Quarter Review

- For vehicle turbocharger business, which has suffered from semiconductor shortages and supply chain disruptions owing to COVID-19 variant, will carefully monitor automotive demand recovery in second half
- Power shortages in China have affected some businesses

Project Change progress

Recover from pandemic

 Sales of thermal and surface treatment and rotating machinery sales recovered to pre-pandemic levels

Strengthen cost structure

- Improved breakeven point, including by cutting procurement expenses
- Separated fixed and variable costs and leveraged information and communication technologies to shorten lead times

Expand lifecycle businesses

- Built framework to share information, tools, and resources for rapid proposals and services
- Materialized concept to establish domestic services units across businesses

Future initiatives

- Respond flexibly to automotive demand recovery
- Reinforce earnings structure by shifting resources faster to lifecycle businesses
- Leverage information and communication technologies to optimize services network

Social Infrastructure & Offshore Facilities

Second-Ouarter Review



Business environment

- Domestic maintenance work steady amid aging social infrastructure
- Steel prices soaring owing to decarbonization policies and surging ocean freight charges from global container shortage
- Military rule in Myanmar and pandemic impact across Asia hampering progress in some overseas construction projects

Project Change progress

Expand lifecycle businesses

- Secured steady orders for bridge seismic reinforcement and repair work
- Began marketing Bridge Management Support System

Strengthen cost structure

- Shortened lead times and cut manufacturing costs by rectifying bridge production processes
- Created platform for digitizing construction technologies and drove advances in building information and construction information modeling

Future initiatives

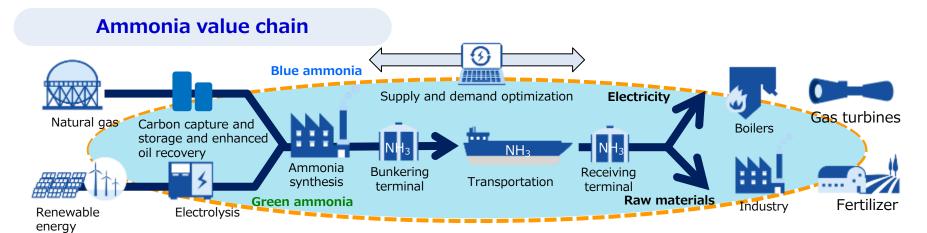
- Steadily undertake large overseas projects
- Secure infrastructure improvement project work under Japanese government's national resilience plan
- Flexibly allocate resources to key global and maintenance operations

Growth Business Creation

Second-Quarter Review



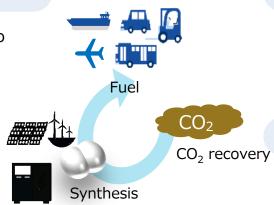
Undertaking development initiatives and partnerships to create growth businesses



- Launched ammonia co-firing demonstration project (beginning with low-level fuel ammonia usage tests)
- Embarked on studies to establish carbon-free ammonia supply chains in Australia, Malaysia, and other countries
- Began developing large ammonia receiving terminal by improving ammonia receiving and storage technologies

Carbon recycling

- Delivered first methanation unit to customer R&D center
- Commissioned to undertake research project for CO₂ separation and recovery in thermal power plants and for pipeline transportation



Electric turbochargers

Signed technical cooperation agreement for fuel cell system electric turbochargers

Tropical peatland consulting

Began collaborating to create consulting business for properly managing tropical peatlands

Summary



Build foundations for IHI Group to achieve sustainable growth by steadily undertaking Project Change initiatives

Steady progress through Project Change measures

Second-Ouarter Review

- **Fast-tracking efforts to strengthen** earnings foundations, expand lifecycle businesses, and reinforce cashgeneration capabilities
- Accelerating strategies to creating growth businesses and optimally allocate resources
- Corporate management emphasizing sustainability from long-term perspective and undertaking initiatives that bolster corporate value

Project Change management targets for FY2022

8% operating profit margin and **10% ROIC**

Sustainable growth



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