

# IHI ESG STORYBOOK



**IHI** Corporation



# Achieving Sustainability

We have been boldly addressing difficult social issues and using the power of our technology to provide solutions for society since our founding in 1853. Our aspiration is, and always will be, to overcome social issues to achieve

a sustainable society.

# An Everlasting Aspiration



<sup>66</sup> Use the power of technology to promote industry and advance our country 99

# Tomiji Hirano

Founder of IHI's predecessor, Ishikawajima Hirano Shipyard

Tomiji Hirano dedicated his life to pursuing this aspiration. His spirit lives on in the unwavering and treasured values of the IHI Group Management Philosophy.

# **Management Philosophy**

- "Contribute to the development of society through technology"
- "Human resources are our single most valuable asset"

# Why is now the time for **ESG**?

What can we do to create sustainability for the Earth and its inhabitants?

We can use less energy to make products, increase the ratio of renewable energy we use, and develop and use products with low CO<sub>2</sub> emissions.

The activities of companies influence and impact society and the environment in many ways. To realize a sustainable society, companies must minimize the potential negative impact on society and the environment of all their corporate activities. A corporate governance system enables us to ensure our activities are carried out properly and effectively.

Achieving sustainability requires every one of us to search for solutions and take action. That is why now is the time for environmental, social, and governance (ESG) management.

# Contents

1	Achieving Sustainability			
3	Message from the President			
5	ESG Management			
6	Material Issues			

Create a World Where Nature and Technology Work in Unity

- 7 Becoming Carbon-free
- **15** Preventing and Mitigating Disasters

Keys to Realizing our Sustainability Goal for the Company and Society

- 17 Human Rights of All Stakeholders
- **19** Diversity and Inclusion
- 21 Securing and Maintaining Stakeholder Trust
- **22** Our Unwavering Aspiration



# In this era of great uncertainty, a company willing to face difficult challenges is a company with opportunity

The unprecedented challenges society has been facing in recent years, including the human and economic impact of the COVID-19 pandemic and the global climate change caused by greenhouse gases, have created a widespread sense that society has stalled and uncertainty about our future. Many people may be wondering what the future will be for companies and ultimately, for themselves.

However, even with this disruption, I am optimistic and see the situation as an opportunity.

Throughout the 168 years since our founding, the IHI Group has encountered innumerable problems and challenges; and we have directly and passionately confronted each one to find a solution.

Looking back, the approaches we took were not always ideal, since we often prioritized economic outcomes and did not sufficiently consider the impact on the natural environment. Still, I believe we can learn from the past and apply the core values we have developed so that the IHI Group will play a major role in creating a better society.

In this era of great uncertainty, what should we do for society? As our Management Philosophy states, we can use our human resource assets and technologies to help people enrich their lives. We can do that with management that addresses social issues, gives greater consideration to the environment and society, and continues earning the trust of stakeholders through ESG management. The difficult times provide us with a once-in-a-generation opportunity as a company contributing to a sustainable society to create infrastructure for safe, secure, and enriching everyday lives.

# **Moving forward** with our aspiration for a better, sustainable society

In November 2020, we launched an initiative called "Project Change". The project sets becoming carbon-free, preventing and mitigating disasters, and contributing to enriching the lives of all people as the core social issues we will address while we seek to create a world where nature and technology work in unity. Approaching these social issues as business opportunities will lead to sustainable growth as a company.

The challenges society is currently facing are extremely complex. One corporate group cannot solve them all. However, a company that aspires to contribute more to creating a better and sustainable society can make a difference. I want the Group to move ahead by sharing our aspiration with our employees and all stakeholders and with new business partners. The IHI Group is

making a concerted effort to carry out our new ESG management and fulfill our aspiration.

# The Making of IHI's ESG Management

## Continuing our history of change

Since my appointment as company president in April 2020, I have met with numerous employees from across the IHI Group. I have been answering questions and responding to their concerns, while also explaining the direction we need to take as a company.

Engaging directly with employees provides perspective to a sense of crisis that comes with change and enables them to take appropriate action. This is essential to continuing our history of change. I look forward to communicating with more employees



# **IHI Group ESG Management**

0

The IHI Group is seeking to create a world where nature and technology work in unity - a sustainable world where technology protects society from extreme environmental events and people live and flourish in a safe and secure environment. We will use our business to tackle social issues, create social value, and raise our corporate value.

# **IHI Sustainability Goal** Create a world where nature and technology work in unity Materialize fulfilling lifestyles

Resolving social issues Prevent Become and carbon-free mitigate disasters **Diversity and inclusion Human rights** Securing and maintaining stakeholder trust

# **Management Philosophy**

"Contribute to the development of society through technology" "Human resources are our single most valuable asset" 

10000

# **IHI Group Material Issues**

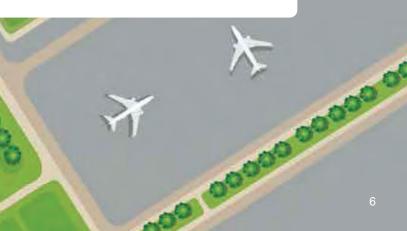
The IHI Group has identified material issues to be prioritized to achieve sustainable growth as a company and realize a sustainable society.

Our ESG management considers the following to be material issues for our objectives: implementing global climate change countermeasures, respecting the human rights of people involved in our business operations, maintaining a diverse and inclusive workforce as a driving force of value creation, and securing stakeholder trust with earnest corporate management.

# Material Issu **Climate chan** Human right **Diversity and inc** Securing and maintaining s



les	
ge	
ts	
lusion	
stakeholder trust	



11400

# **Creating a World** Where Nature and Technology Work in Unity

The IHI Group is seeking to create a world where nature and technology work in unity through addressing social issues in three main areas by becoming carbon-free, preventing and mitigating disasters, and enriching lives of all people. We are doing our part to enable flourishing societies while taking steps to halt global climate change through mitigation by reducing our greenhouse gas (GHG) emissions, and through adaptation by preparing for the impact to reduce the negative effects from climate change.

# Tackling Climate Change: Becoming Carbon-free

The IHI Group has pledged to make its complete value chain carbon-neutral by 2050. We aim to be carbon-neutral in our processes overall by reducing the direct and indirect (Scope 1 and 2) GHG emissions from our business activities as well as Scope 3 emissions from the upstream and downstream processes in our value chain. We have categorized initiatives using our products and services into the two actions of "transition" for our existing technologies and "transformation" primarily through new technologies.

# **IHI Carbon-neutral 2050**

Our 2050 goal to achieve carbon neutrality throughout the entire value chain

## **Initiatives to Become Carbon-neutral**

	Procurement	Partner with eco-friendly businesses
Business	Production	Pioneer the adoption of new technologies, including for in-house products and systems
operations		Fuel conversion
		Use of renewable energy
	Improve current technologies Transition	Enhance efficiency of current power plants
		Lighten and electrify products
Products and services		Utilize renewable energy
	Introduce new technologies Transformation	Use hydrogen and ammonia
		Recycle carbon

# **Initiatives to Achieve Carbon-neutral Business Operations**

We are seeking to make our business activities carbon-neutral by actively introducing our products, systems, and other new technologies to reduce CO2 emissions from our production operations and by converting to fuels with low or zero CO2 emissions.

### **CO2 Emission Reduction Initiatives**

# Scope 3 Category 1 (Purchased goods and services)

### **Promoting CSR Procurement\***

Procurement

Production

# Actively partner with environmentally sound suppliers

\*CSR procurement is obtaining the materials and equipment needed for our operations based on the core requirements of quality, cost, and delivery and with full consideration of human rights, occupational health and safety, the environment, and information management.

# • Electrification : Convert from fuel-based to • Fuel conversion : Convert to low-carbon and Scope 2 (Indirect Emissions)

- Energy saving : Replace aging equipment,
- Scope 2 • Renewable energy : Introduce renewable energy
  - Power consumption optimization : Introduce an energy management system

Status in 2019

254,000

t-CO<sub>2</sub>

Scope 1

We are also promoting the use of renewable energy. We are actively partnering with suppliers with environmentally friendly operations and working to achieve carbon neutrality throughout the value chain.

Introduce products designed to be environmentally friendly

## **CO2 Emission Reduction Initiatives**

# Scope 1 (Direct Emissions)

electric equipment

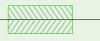
non-fossil fuel sources

introduce power-saving and high-efficiency equipment

> equipment, purchase renewable energy

Balance CO2 emissions and absorption

- Introduce equipment to capture CO<sub>2</sub> from exhaust emissions
- Use carbon credits



**Carbon-neutral** in 2050 (Balanced Emissions and Absorption)

### Spotlight Using Ammonia as Fuel and Constructing an Ammonia Value Chain

Ammonia, NH<sub>3</sub>, is a chemical compound composed of one nitrogen atom and three hydrogen atoms. Since burning ammonia does not produce CO<sub>2</sub> emissions, it is promising as a next-generation fuel source to help mitigate climate change. The IHI Group is cultivating its combustion technologies for thermal power generation to develop power generation technology using ammonia as a fuel. In addition, we are currently engaging in a demonstration project\* aimed at developing vessels equipped with domestically produced ammonia-fuel engines. We are also preparing the infrastructure for more widespread use of ammonia as a fuel by constructing a complete ammonia value chain from production to consumption.

# **Carbon Dioxide-free Power Generation Using Ammonia**

While transitioning to carbon neutrality, we will reduce our CO<sub>2</sub> emissions by co-firing ammonia and fossil fuels. Our ultimate objective is to exclusively use ammonia as a fuel source for thermal power and gas turbine power generation with zero CO<sub>2</sub> emissions.

### From Co-firing to 100% Ammonia



**Demonstration project for** a full-scale ammonia co-firing power plant

In June 2021, we launched a four-year demonstration project at a large-scale commercial thermal power generation plant to develop co-firing technology for coal and ammonia. Subsidized by the New Energy and Industrial Technology Development Organization (NEDO) and implemented in collaboration with JERA, the project is aiming to achieve an ammonia co-firing rate of 20% at Unit 4 of JERA's Hekinan Thermal Power Station (power generation capacity: 1GW) in fiscal 2024.



JERA Hekinan Thermal Power Station, site of the test project in Hekinan Aichi Prefecture (Image courtesy of JERA)

Norld's First

# Stable combustion attained at 70% liquid ammonia co-firing ratio

The IHI Group is participating in a project commissioned by NEDO to develop technology for a 2,000-kilowatt-class gas turbine that directly sprays liquid ammonia into the combustor for co-firing with natural gas. In March 2021, the project achieved the world's first stable combustion with a co-firing ratio of 70% liquid ammonia on a calorific basis. The project is aiming to commercialize a fully ammonia-fired gas turbine by 2025.



2,000-kilowatt-class gas turbine co-firing liquid ammonia and natural gas at IHI Yokohama Works

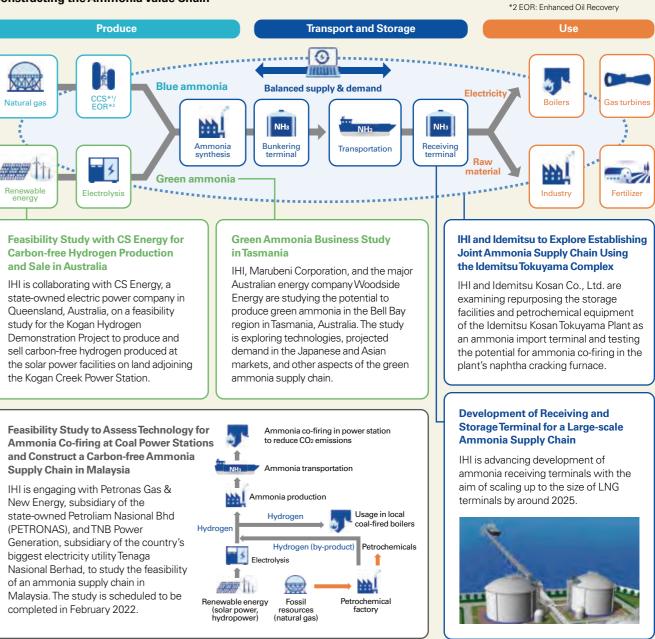
\* Subsidized by NEDO and launched in December 2021, the project to develop ships that run on domestically produced ammonia-fuel engines is a collaboration of NYK Line, Japan Engine Corporation, IHI Power Systems, Nihon Shipyard, and the Nippon Kaiji Kyokai.

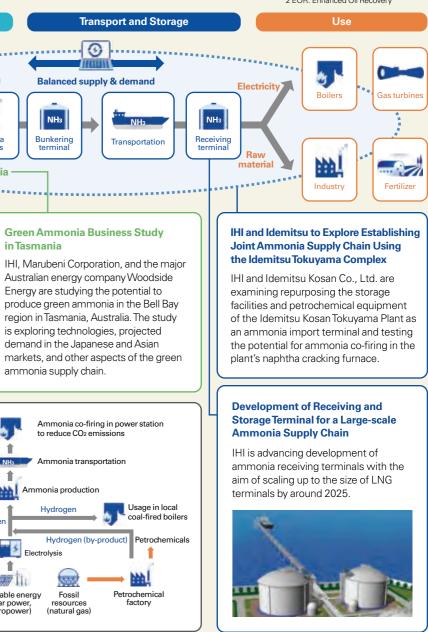
# **The Ammonia Value Chain**

Worldwide ammonia production amounted to roughly 200 million tons in 2019. The vast majority of ammonia, however, is consumed locally, as only about 20 million tons were traded on global markets. This means that if the major Japanese electric power companies were to adopt 20% co-firing at their coal-fired power plants, they would need some 20 million tons of ammonia<sup>1)</sup> annually.

Ammonia is currently widely used as a raw material for fertilizers and chemical products, but the volume is relatively

### **Constructing the Ammonia Value Chain**





small. When the power generation industry begins increasing ammonia consumption, a full infrastructure will be needed not just for mass production but also for transport and storage, much like the distribution network for LNG.

The IHI Group will be involved in various processes in the ammonia value chain from production to use, including developing carbon-free manufacturing technologies and engineering and constructing liquid ammonia receiving sites. 1) Source: FY2020 Annual Report on Energy (Energy White Paper 2021)

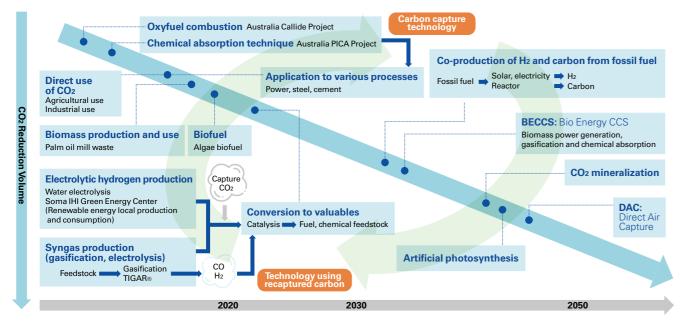
\*1 CCS: Carbon dioxide Capture & Storage

# **Using Recycled Carbon as an Energy Source**

The IHI Group prevents the release of CO<sub>2</sub> into the atmosphere with carbon capture, utilization, and storage (CCUS) technology that captures and separates CO2 emitted from thermal power plants and other facilities. The captured CO<sub>2</sub> can be mixed with a catalyst and carbon-free hydrogen produced using surplus electricity generated from renewable energy to make methane (CH4) fuel or olefins, used to make plastic.

Our plan to achieve carbon neutrality in the fuel and feedstock operations is to continue lowering the cost of capturing CO<sub>2</sub>, making carbon capture technology widely available, and acquiring catalyst technology and developing processes for synthesizing fuels and chemical feedstock. We will also acquire next-generation water electrolysis technology to produce hydrogen, and co-electrolysis technology of water and CO2 to produce valuable substances as we build a business to supply electrolysis and valuable resource conversion equipment. In addition, we are advancing toward practical application of technology that directly captures CO<sub>2</sub> from the atmosphere.

### **Carbon Recycling Roadmap**

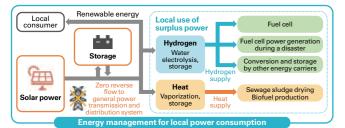


# **Renewable Energy Use and the Energy Management System**

The production of solar power, wind power, and other renewable energy fluctuates depending on the weather and time of day. Energy management systems that store surplus electricity in storage batteries for later use when demand arises and that produce hydrogen and steam as alternative energy sources are important technologies for achieving optimal energy use.

The IHI Group is developing a smart community project in Soma, Fukushima Prefecture, that will maximize use of local renewable energy. Group subsidiary, IHI Terrasun Solutions, Inc., is building an energy management service business in North America to enable clients to make effective use of renewable energy.

### **Smart Community Business Model**





Energy Storage Management System provided by IHI Terrasun Solutions, Inc.

# **TECHNOLOGY FOR THE FUTURE**

Technology in Unity with Nature #1

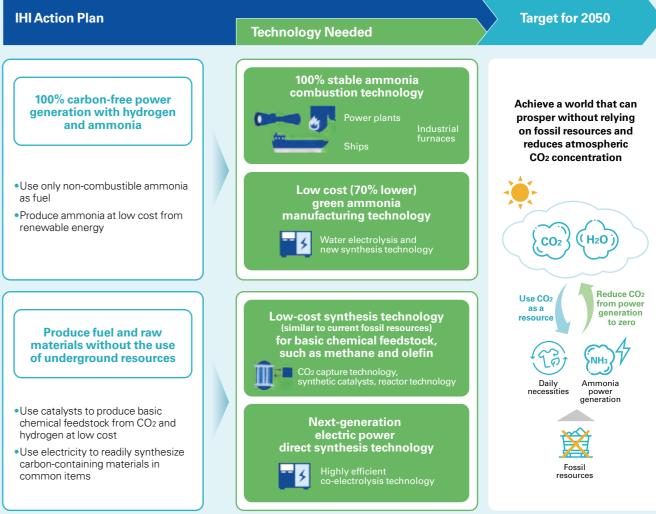
# A carbon-free energy resource from water and air

Creating the fuel of the future with water and air using solar and wind power. Water and air can be converted into clean fuel, such as in the form of ammonia that is available anytime and anywhere.

# IHI is creating a future

where digging resources out of the ground will be a thing of the past.



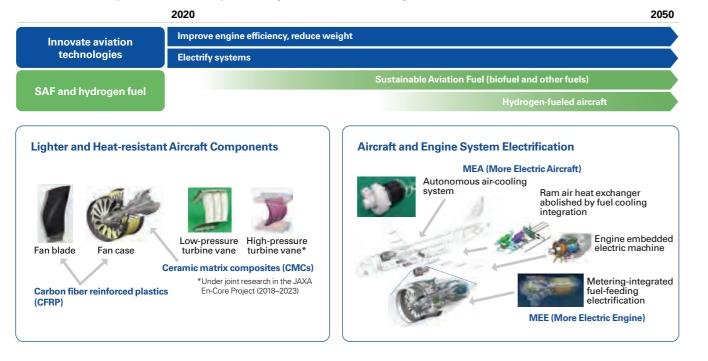


# Lighten Products, Electrify, and Convert Fuel for Transport Systems

We are advancing several initiatives to also make our transport sector operations carbon neutral.

## **Air Transportation Systems**

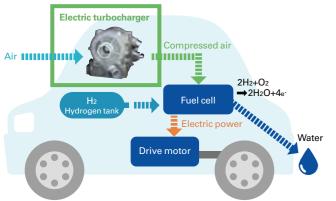
The aviation industry is seeking to reduce CO<sub>2</sub> emissions to make air transportation more environmentally friendly. In this direction, the International Air Transport Association in October 2021 the International Air Transport Association resolved that the global air transport industry will aim to achieve net-zero carbon emissions by 2050. The IHI Group is working to reduce aircraft CO<sub>2</sub> emissions in various ways, such as by improving transport efficiency and engineering parts made from composite materials that will lighten aircraft engines. We are also designing electrification technology for aircrafts, adapting fossil-free jet fuel and hydrogen fuel, and innovating other technologies for the future.



# **Automobiles**

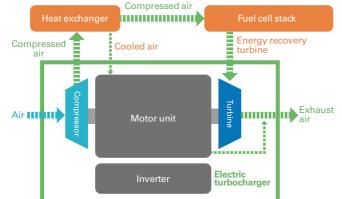
The transition to electrification is progressing rapidly in the automobile industry. As the industry shifts to electric vehicles, the IHI Group will secure market share by adapting its current turbochargers to hybrid vehicles. As the move toward full

How Electric Turbocharges Add Power to Fuel Cell Vehicles



electrification gains momentum, we will develop business for our electric-assist turbochargers for luxury vehicles and electric turbochargers for fuel cell commercial vehicles.

### Internal Configuration of an Electric Turbocharger



# **TECHNOLOGY FOR THE FUTURE**

Technology in Unity with Nature #2

# **Mobility Supported by Air**

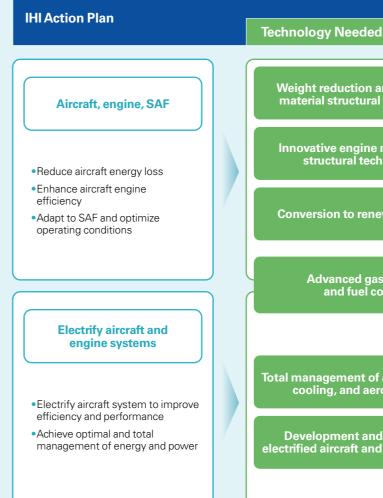
A standard fan spins at 1,000 rpm an IHI motor of about the same size spins at 100,000 rpm and generates more power than over 100 fans. Supporting the rotating shaft is not oil or metal, but air. The ultra-high-speed rotation that air makes possible will transform the future of mobility.

### Achieving Higher Mobility Efficiency



Air cooling of high-power electronic devices for increased efficiency and reduced environmental burden







Highly efficient in-cabin air conditioning and pressurization, and air energy recovery during



Air (oxygen) supply to fuel cells and recovery of energy from exhaust

Weight reduction and composite material structural technologies

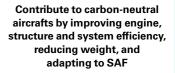
Innovative engine materials and structural technologies

Conversion to renewable energy

Advanced gas turbine and fuel control

Total management of air conditioning, cooling, and aerodynamics

Development and adoption of ectrified aircraft and engine systems



Target for 2050

Realize high-efficiency engines and lightweight structures



Electrify aircraft and engine systems Pneumatic pressure Hvdraulic pressure Electricity

# **Climate Change: Preventing and Mitigating Disasters**

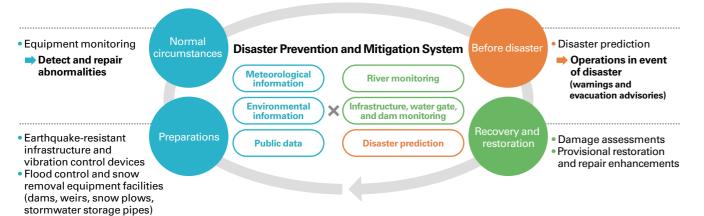
The IHI Group is helping to realize safe, secure, and comfortable communities by improving infrastructure to be more economical and disaster resilient, and by constructing systems that combine infrastructure with disaster and damage prediction to achieve zero human suffering.

We are building on our strength in advanced maintenance technologies for bridges and other infrastructure. By adding sensing and monitoring technologies and developing preventive diagnosis technology, we are expanding our business to provide timely and appropriate infrastructure maintenance. We will shorten the lead times for construction projects and automate construction processes

so we can provide earlier care for aging infrastructure and sufficiently respond to the growing maintenance demand amid a shortage of skilled workers. We also aim to minimize the human impact and economic loss from extreme weather events by predicting disasters and controlling local infrastructure using meteorological information and disaster event data collected from sensors. In addition, we will offer products and services that contribute to disaster recovery and assist people return to their normal lives as quickly as possible.

We are working to establish communities with dual-purpose infrastructure that is resilient in emergencies and convenient in normal times.





### Integrated Hydraulic Control

Flood damage can be minimized through integrated operation of dams, water gates, drainage pump stations, and other upstream and downstream river management facilities.



# **TECHNOLOGY FOR THE FUTURE**

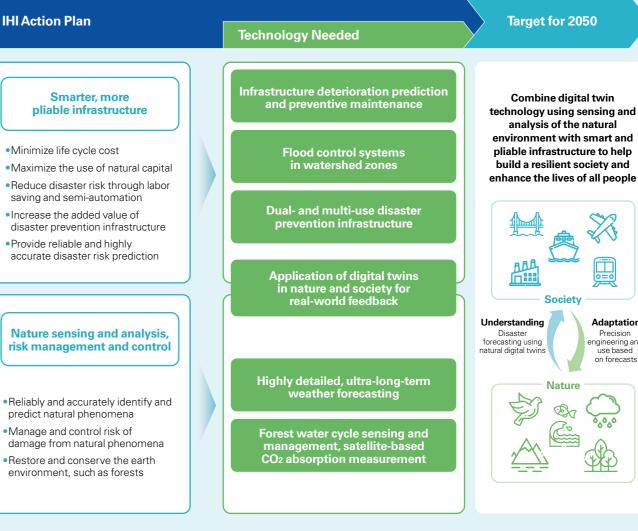
Technology in Unity with Nature #3

# **Two-month Rain Forecast Preparation**

Lead time is essential to mitigating the impact of disasters. Longer forecast projections provide more time to take preventive measures.

IHI is monitoring weather using satellite data and AI to become the forerunner in predicting future weather conditions.







build a resilient society and enhance the lives of all people Societ Understanding Adaptation Precision engineering and use based on forecasts Nature

# **Human Rights of All Stakeholders**

We are using our value chain to protect against and reduce the negative impacts of our business activities on our stakeholders and rights-holders\* as part of our efforts to enrich the lives of all people.

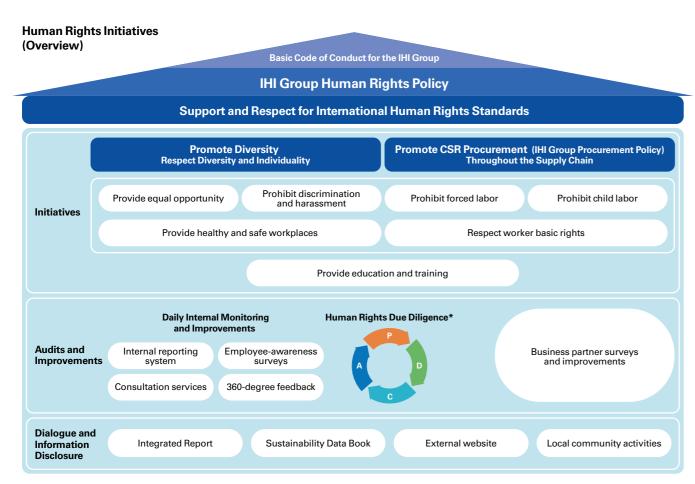
\*People or groups whose human rights could be affected by corporate activities

# **Human Rights Initiatives**

The Basic Code of Conduct for the IHI Group reflects our Management Philosophy and outlines what we should do to be aware of global issues and to meet the expectations of all stakeholders. In accordance with the Basic Code of Conduct for the IHI Group, we established the IHI Group Human Rights Policy in December 2020. We are conducting human rights awareness activities following international standards to fulfill our responsibility to respect the human rights of all by fostering a respectful corporate culture and promoting human rights throughout our business activities.

We also enforce the IHI Group Procurement Policy to fulfill our responsibility and work with our business partners for CSR procurement in our supply chain that gives due consideration to human rights, labor conditions, occupational health and safety, the environment, and information management.

The IHI Group Human Rights Policy is guiding our efforts to promote diversity and respect for the individual with measures to ensure fair hiring and working conditions, equal opportunity, and a harassment-free workplace. With our business partners, we implement human rights initiatives to prevent potential human rights issues from arising in any of our business activities.



\* An overall process of conducting risk assessments and evaluations to improve the effectiveness of the IHI Group's commitment to human rights

## **Important Human Rights Issues and Actions**

We conduct human rights due diligence to identify and assess risks related to human rights and to verify and improve the results of our measures.

The first step in this process is to select human rights issues that are material and pertinent to the IHI Group. This will be based on the results of analysis and evaluations conducted

mportant Human Rights Issues	Action
Prohibit forced labor	<ul> <li>Cond</li> </ul>
Prohibit child labor	<ul> <li>Stren</li> </ul>
<ul> <li>Provide equal opportunity</li> </ul>	<ul> <li>Provi</li> </ul>
<ul> <li>Prohibit discrimination and harassment</li> </ul>	•Cons
<ul> <li>Provide healthy and safe workplaces</li> </ul>	•Publi
<ul> <li>Respect worker basic rights</li> </ul>	

# Supporting Individual Initiative

Respect for human rights is integral to the IHI Group's Management Philosophy of "Contribute to the development of society through technology" and "Human resources are our single most valuable asset."

Our business activities connect with not only our customers, business partners, and shareholders, but also with our employees and local and international communities. As a company, it is our duty to be aware that we are conducting business activities with a vast number of people and that our business has an impact on society. Furthermore, as a member of society, it is our responsibility to maintain a clear perspective on human rights.

We will create work environments where employees feel emotionally safe in the workplace and recognize they are doing meaningful.

We will also foster a corporate culture where employees are encouraged to speak out against discrimination, harassment, and other human rights violations.

with external experts, vital human rights issues in the manufacturing industry, internal monitoring, and international trends related to human rights issues. We conduct human ights impact assessment surveys with IHI Group employees and suppliers who are our high priority rights-holders to identify, prevent, and reduce human rights risks in our business activities.

## ns

- duct a human rights impact assessment
- ngthen supply chain management
- ide education and training
- struct a global human rights risk management system
- icly disclose information on the status of initiatives



# **Diversity and Inclusion**

Welcoming diversity and accurately understanding and responding to changes in the social environment are essential to a sustainable society. Our commitment to this is reflected in the two main themes of our management strategy: "seeking the ideal relationship of the individual and the organization" and "diversity and inclusion."

# Seeking the Ideal Relationship of the Individual and the Organization

Japanese companies have generally provided a balance where employees receive long-term employment and a guaranteed salary, and where the company assigns their duties and creates the work environments and employment conditions. While this relationship between the individual and the organization may allow employees to fulfill their assigned duties, it makes it difficult to accommodate the type of flexibility needed to respond to the rapid changes in our world that are happening today.

The IHI Group's ability to continue existing as a company in society depends on every employee understanding our corporate mission and management philosophy of "contributing to the development of society" and our goal to "create a world where nature and technology work in unity". We believe that key elements to attaining sustaining growth are to align the organization and our employees and ultimately to maintain a relationship where we contribute to each other's growth.

# **Diversity as a Driver for Value Creation**

In our network, human resources are central to the effective cooperation and collaboration of stakeholders and the creation of value. For human resources to fulfill that role, we must respect each employee's individuality and values and create an environment that will bring out each employee's potential. Creating such an environment will enable the IHI Group to organically connect diverse viewpoints, seek the ideal relationship of the individual and the organization, and generate innovation and creation.

### A Network of Interacting Stakeholders

The IHI Group is connected to society through a vast network of stakeholders that interact with each other. We actively partner with employees, shareholders, customers, business partners, local communities, and other groups with which we share ideas and capital, creating a coexistence and coprosperity network that goes beyond the group and national borders.

The IHI Group cannot solve social issues and create a sustainable society on its own, and it is becoming more important than ever that we further strengthen the cooperation and collaboration throughout the network. The IHI Group uses its network to identify social issues and apply its businesses to finding solutions. These efforts by the Group provide social value to stakeholders and enhance our corporate value.



- Continuously and consistently exemplify the company's goal for stakeholders of all our business activities and link the actions of all employees to that goal
- Attract diverse stakeholders and human resources; respect different perspectives, values, skills, and backgrounds; constantly create an environment where individuals can fulfill their potential



# **Our Human Resources**

- Share and seek to fulfill the IHI Group's purpose and goals
- Respect the viewpoints and values of stakeholders in all business activities
- Seek new solutions by considering the present and future independently, objectively, and openly

# **Diverse and Actively Participating Human Resources**

Diversity and inclusion that respects and accepts the differences of individuals increases employee motivation and engagement. This is a fundamental value that will enable the IHI Group to continue growing and pursuing business opportunities as we address social issues. The IHI Group is creating an environment where human



Work environments where diverse ndividuals play an active role

**Opportunities for** various experiences (second jobs, in-hous side job programs)



Before we can address the social issues that are arising with our changing times, we must obtain human resources with flexible ideas, and have an organization with the flexibility to convert those ideas into businesses. Creating an environment that respects diversity will make that possible and will be a driving force for cultivating the corporate value needed to realize a sustainable society.

resources with various backgrounds, distinct experiences, and original perspectives can play an active role. We will also expand the human resources structure to provide employees various opportunities to acquire broader perspectives and experience.



**Global structure and** system reinforcemen



New work practices

"Smart Work")

# **Securing and Maintaining Stakeholder Trust**

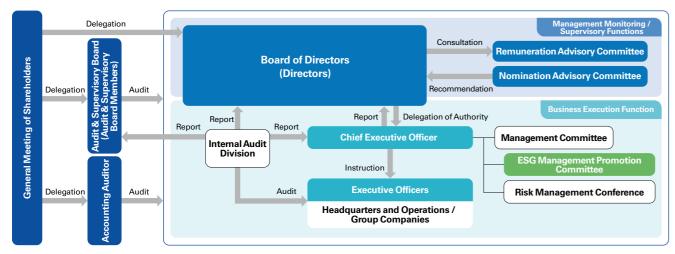
To use our business to solve social issues and enhance corporate value, we need a foundation to maximize the Group's inherent strengths and active dialogue with all our stakeholders.

# **Governance System**

To improve management efficiency and to maximize our ongoing growth and corporate value, we are making internal decision-making more efficient by clearly delineating the management monitoring and supervisory functions and the business execution function.

To accelerate ESG management in the company, on the business execution side, the ESG Management Promotion

## **Corporate Governance Management Structure**





### IHI Group Approach to ESG: Discussion with Stakeholders

Committee, which is under direct supervision of the CEO, will

measures regarding sustainability matters will be reported to

conduct thorough discussion of basic policy and measures

related to sustainability. The ongoing discussion of the

the Board of Directors, which evaluates and supervises

with the objective of enhancing corporate value.

activities related to sustainability in our business execution

President Ide is determined to take a different approach to discussing the direction IHI management will take with its ESG-aligned values with shareholders, investors, customers, business partners, local communities, employees, and our wide range of stakeholders. Over the past year, we have held numerous discussions regarding the IHI Group's approach to ESG with the company's directors, executive officers, and new and mid-career employees.

To further the discussion about the execution of ESG management, we plan to create a workplace that encourages employees to voice their opinions and views with the

aim to create an ESG management style that is unique to the IHI Group.



# **Our Unwavering Aspiration**

# Shining New Light into the Future

Asked for his idea about how to use the newly completed Lake Biwa Canal, our founder Tomiji Hirano said, "Build a power plant that will harness the water level of Lake Biwa to light every house in Kyoto."

Converting the water flow to electricity would take the energy otherwise limited to the waterway and make it available for wider use as electricity and lighting.

His inspiration put IHI at the forefront of electric power generation in Japan.

That innovation rejuvenated Kyoto and lit the way for cities across the country to grow and prosper. It was the dawn of urban innovation.



shikawajima Shipyard (1891

# Shining New Light in Our 200<sup>th</sup> Year

IHI will be marking its 200th year in 2053.

What challenges will the world be facing at that time?

Global warming, frequent natural disasters, declining populations, increasing wealth disparity...

We will be doing what we've always done-shining new light, protecting people's lives, and living in unity with nature.

# **Realize your dreams**

# Hiroshi Ide Chieko Matsuda Outside Director President and Chief Executive Officer IHI Corporation

Create a World Where Nature and Technology Work in Unity



# **IHI** Corporation

Corporate Communication Division Toyosu IHI Building, 1-1, Toyosu 3-chome, Koto-ku, Tokyo 135-8710, Japan TEL:+81-3-6204-7800 FAX:+81-3-6204-8612 Company Website https://www.ihi.co.jp/en/

**9**9

90400-248-00-2202-0500SS (CM716)