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# Fourth ESG Explanatory Meeting Sustainability Initiatives and DX Strategy

February 27, 2024

**@**Hitachi Construction Machinery Co., Ltd.

**Corporate Brand & Communications Group** 



President and Executive Officer, COO

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Executive Officer, CDIO,
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**Seimei Toonishi** 



President of Sustainability Promotion Group

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1

## Value Creation Strategy of Hitachi Construction Machinery Group

2

### **DX Strategy for Accelerating Value Creation**

Organization building/corporate culture reform /specific initiative case examples

2

### **Progress of the Sustainability Initiative**

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# 1. Value Creation Strategy of Hitachi Construction Machinery Group

## Changes in the social, technological, and economic environment

- Aging and a shortage of workers in secondary industry
- Broadly defined software, shift to utilization value, and progress in digital technology
- Acceleration of economic transformation to realize a sustainable global environment
- Emergence of geopolitical risks

## Changes in the competitive environment

- Accelerating development of decarbonization technologies including electrification in developed countries and mining markets
- Firm establishment of conversion of customer needs "from hardware products to solutions"
- Rise of Chinese manufacturers in emerging countries
- Competition or cooperation with other industries with digitization

## **Capital structure changes**

- **Hitachi, Ltd.** Collaborative creation with the Hitachi Group in various R&D fields to accelerate environmental responses and the circular economy
- ITOCHU Corporation ———— Acceleration of business expanding in North America and promotion of business
- Japan Industrial Partners, Inc.
   Strengthening of the medium- to long-term management foundation and enhancement of corporate capabilities

Hitachi Construction Machinery is entering a new phase of growth with various changes

# Formulating our own group identity in response to business environmental changes

**Reliable Solutions** We are a reliable solutions partner with/for our customers



**INPUT** 

**Core Strategy** 

**Materiality** 

**OUTPUT** 

Reducing greenhouse gas

Countering the impact of

(GHG) emissions

OUT COME

**Financial** capital

Manufacturing capital

Intellectual capital

Human capital

Social and Relationship **Capital** 

Natural capital

**Delivering Innovative Solutions for Customer Needs** 

**Enhancing value** chain business

**Expanding business** in the Americas

Strengthening human capital and corporate capabilities

**Development of** products and technology contributing to climate change mitigation and adaptation

**Conversion to** recycling-oriented business model

Creating innovative solutions for challenges faced by customers supporting social infrastructure

Strengthening global governance

Improving safety and productivity

climate change

**Promoting resource saving** while curbing waste generation Achieving longer product life and advancing recirculation and reuse

Reducing life cycle costs

Governance-focused management Supply chain management **Ensuring occupational safety** and nurturing human resources Social Value

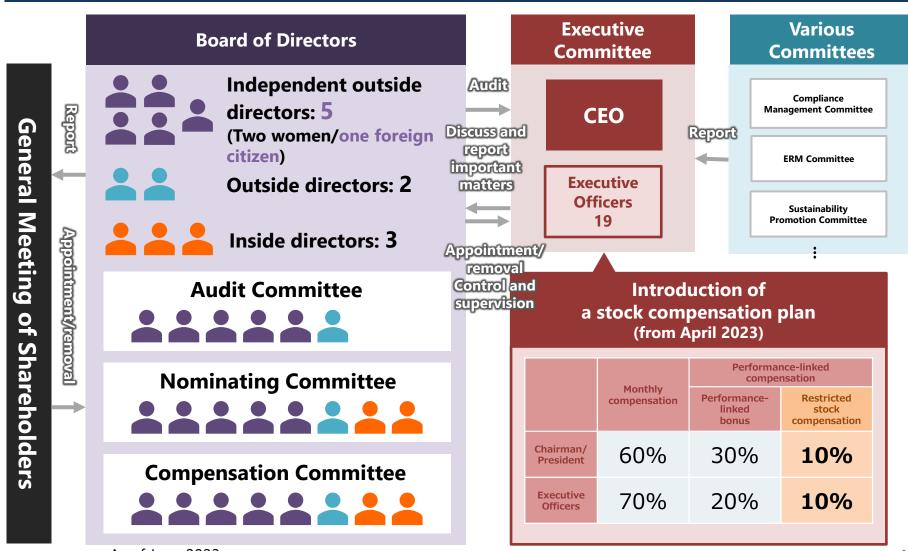
**Environ** -mental Value

**Economic Value** 

### **Corporate Governance Structure**

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Increase the ratio of independent outside directors to 50% and ensure independence and diversity Further promote shareholder-focused management by introducing a stock compensation plan



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# 2-1. DX Strategy and Organization Building for Accelerating Value Creation

We always take our customers' issues as the starting point for our actions to resolve them



Aiming to grow as a true solutions provider

## **Customer issues are unchanging**

Safety improvement

**Productivity** improvement

Reduction of lifecycle cost

**Environmental** response

#### Solutions are becoming more complex due to technology innovation

ΑI



**Autonomy** 



**Electrification** 



**ICT** construction



**IoT** 



It is essential that we provide products, services, and solutions that utilize digital technologies to solve customer issues

#### Fostering an "agile corporate culture\*1" through the commitment of top management

Chairman and Executive Officer, CEO President and Executive Officer, COO

Executive Officer, CDIO\*2, President of New Business Creation Unit

#### **DX Promotion Group**

**Established: April 2020** 

Mission: To strengthen digital capabilities and develop human capital across all workplaces

and sites

#### **New Business Creation Unit**

**Established: April 2022** 

Mission: To create and grow new businesses



Collaborate with each business unit and department



#### **Construction Business Unit**

**Mining Business Unit** 

**Compact Business Unit** 

**Corporate Departments** 

**Spare Parts & Service Business Unit** 

**Rental & Used Equipment Business Unit** 

**Power & Info Control Platform Business Unit** 

**Group Companies** 

12

<sup>\*1</sup> A corporate culture that quickly perceives changes in the world and circumstances, develops flexible ideas and the ability to execute them, and takes the action in its own initiatives

<sup>\*2</sup> Chief Digital & Information Officer

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# 2-2. DX Strategy and Corporate Culture Reform

## Growing as a true solutions provider by delivering innovative solutions



Means to resolving customer issues Expanding Value Digitally

Remanufacturing (Parts & machines)

Parts & services

New

machinery

**Expanding the value chain** 

Rental

#### **Core Strategy**

Delivering innovative solutions for customer needs

**Enhancing value chain business** 

Expanding business in the Americas

**Enhancing** 

solutions

Strengthening human capital and corporate capabilities

equipment

## Provide solutions to realize CIF that aggregate and maximally utilize the data generated by all business processes

**CIF** perspective

Rapidly respond to changing needs

**Optimal proposal for customers** 

#### **Development and production**

Sales, rentals, and services

Development

**Production** 

**Transportation** 

Procurement

**Quality control** 











Sales, rentals





After-sales service





**Operation** 

#### **Smart factories**





#### **Data-driven proposal activities**





## **Corporate Culture Reform: Agile Culture**

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## In addition to the waterfall development, also introduce agile development Rapidly respond to customer needs with the optimal method

### Waterfall development

Planning Design Implementation Testing 100% release

Several months to one year

## All features are released when they are complete

Ensures high quality with progress management for each phase based on a detailed plan

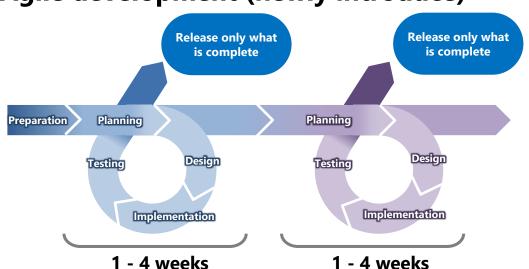




**Product development** 

Core system

#### **Agile development (newly introduce)**



## Prioritize and release important features

Quickly provide value with a short cycle while incorporating user feedback



**e** Solution Linkage

Services / solutions development

### Improve digital skills and literacy across the company

Digital human capital development system diagram

DX business creation capability based on customer value

Develop human capital that promote DX in the workplace

Leader development

Digital Challenge Program

Sales and service/design and manufacturing

Prepare development systems and structures in each division

Literacy mindset

**Practical** 

Basic DX knowledge Innovation mindset

Front-facing
(Sales, business

Manufacturing floor
(Design, manufacturing,

Raising the standard of IT and digital literacy across the company

Managers

**Basic digital training** 

#### Learn not only value creation know-how but aim to actually commercialize it

Actual screening

#### First (FY2022-2023) KENKI βUSINESS CHALLENGE (KβC)

Screening
Preparation period
Application:
100 teams

Brush-up period (1)

45 teams

Brush-up period (2)

20 teams

Issue validation

20% rule during business

9 teams

Commercialization validation

100% full-time

Expect a budget with a scale of tens of millions of yen Commercialization

As of February 2024

#### **Efforts aimed at commercialization**

nterim screening

- Members can allocate up to 20% of their working hours during the issue validation period. They shift to full-time during the commercialization validation period.
- Continuously hosted every year. There were 58 team applications for the 2nd challenge (FY2023-2024), which are preparing for actual screening.

**Encourage continuous challenges with** the aim of creating new core businesses

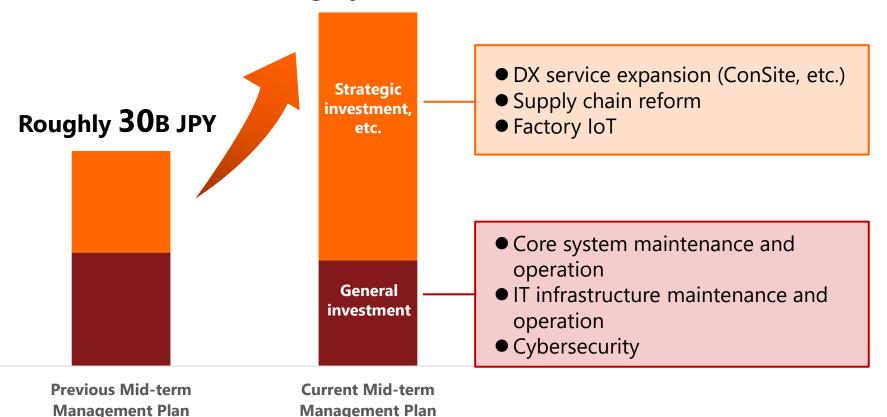


(FY2020-FY2022)

### **Expand "strategic investment" that leads to innovative solutions**

Medium-term Management Plan (three years) Information technology investment

### Roughly 50B JPY



(FY2023-FY2025)

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## 2-3. Specific Initiative Case Examples

## **Major Digital Utilization Initiatives to Date**

#### Promote customer-focused digital utilization including operational data



Mine operation management system developer Wenco becomes a consolidated subsidiary

2009



#### 2000

Start acquiring operational data with Global e-Service Cumulative total of



#### 2013

Start offering the ConSite service solution



#### Contracted 200K Units\*

113 countries/regions

\* As of December 2023

## Solution Linkage

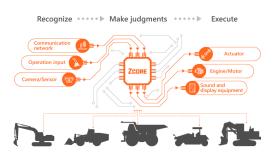
Start offering the Solution Linkage Cloud ICT construction solution

2017



#### 2020

Development of the "ZCORE" system platform for autonomous construction machinery



## Provide solutions to realize CIF that aggregate and maximally utilize the data generated by all business processes

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**Optimal proposal for customers** 

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Sales, rentals, and services

Development

**Production** 

**Transportation** 

**Procurement Quality control** 











Sales, rentals



**After-sales service** 









#### **Smart factories**





#### **Data-driven proposal activities**





## Realize the optimal production, supply and inventory according to customer requests and supply chain fluctuations

#### **Characteristics and Challenges**

- Industry with large fluctuations in demand/supply
- High-mix low-volume production
- A wide variety of transportation routes and cargo types



#### **Ideal Vision**

- Aggregate and centrally manage data for the entire supply chain to simulate multiple production plans
- Implement the optimal production and transportation, and deliver to the customer



Quantity needed by model/ specification/country and region



#### **Procurement**

Availability of each component



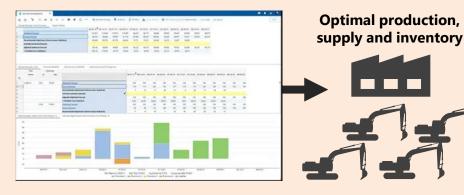
Vessel availability by product/country and region

### **Hitachi Construction Machinery**

Data aggregation and central management Automatic plan generation



#### Instant simulation of all kinds of production plans



**Dealers Customers** 



Further improvements in safety and

productivity/shorter

delivery times

#### Reliably delivering high-quality products in a shorter period of time to meet customer needs



2027

2030

Plan to complete restructuring of domestic factories

**Production plan optimization through simulation** 

#### Manufacturing that conforms to high quality standards

- Factory IoT data platform
- Material tracking, quality traceability

#### Improvements in safety and cost competitiveness

- Automation of the personnel assignment plan based on qualifications, skills, and busyness
- Predictive failure diagnosis based on production facility operational information



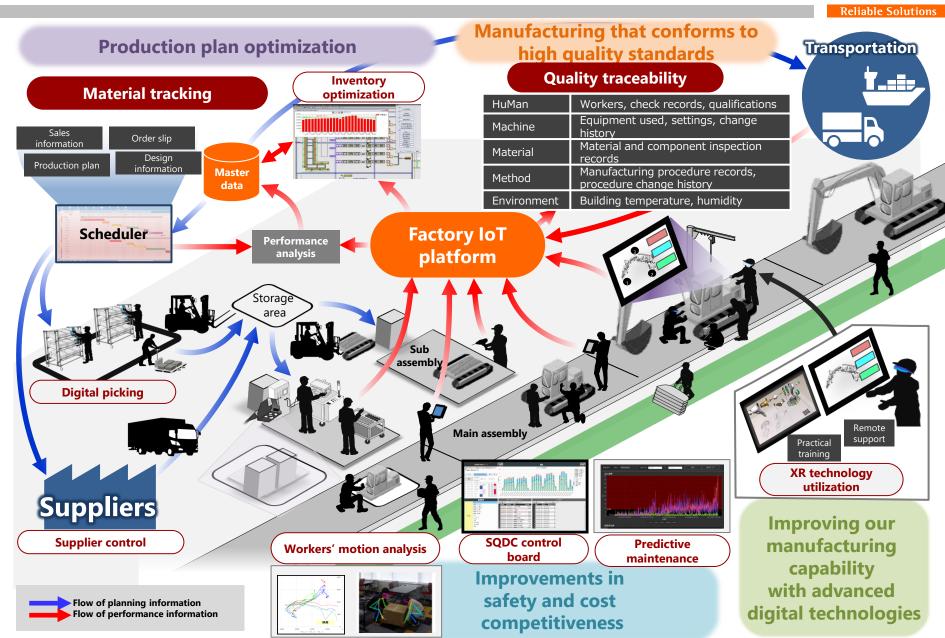


#### Improving our manufacturing capability with advanced digital technologies

- Apply simulation results from the integration of virtual and real worlds to actual factories
- Optimize personnel assignments and facility operation

## **Smart Factory: Overview**

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## Provide solutions to realize CIF that aggregate and maximally utilize the data generated by all business processes

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Rapidly respond to changing needs

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**Production** 

**Transportation** 

**Procurement** Quality control











Sales, rentals

**After-sales service** 

**Operation** 







#### **Smart factories**



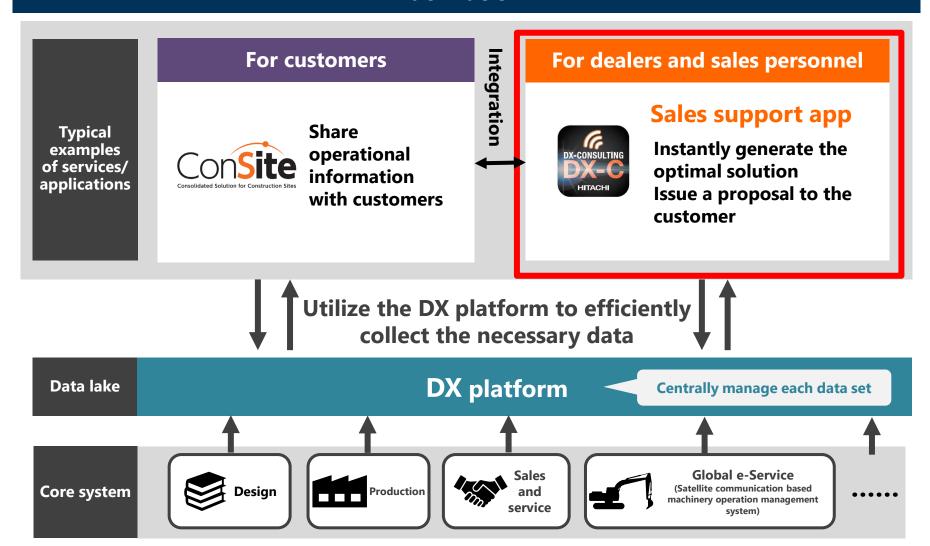


#### **Data-driven proposal activities**





Aim for the optimal proposal for individual customer issues and maximize data utilization



## To be able to rapidly provide the optimal proposal for each customer, utilize and apply big data to enhance sales and service capabilities

#### **Application for sales and service personnel**

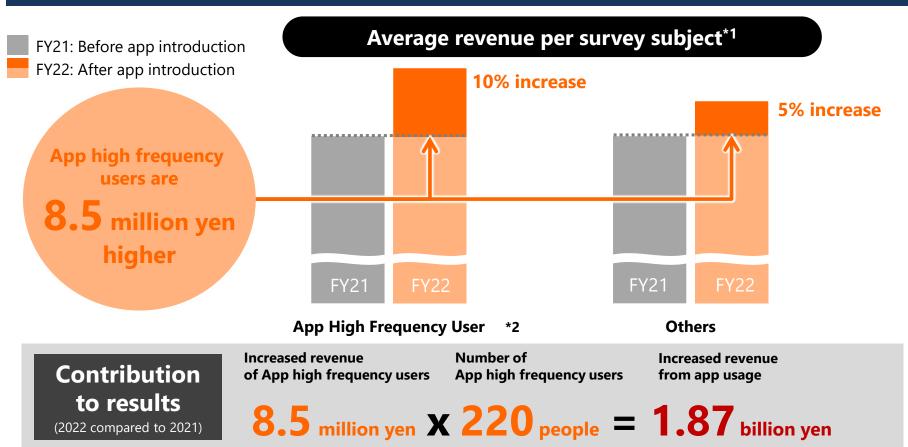
- Aggregates separately managed information and instantly analyzes it with big data and Al
- Enables various proposals according to the customer



- Repair fees have increased, so we recommend a new machinery!
- The operation rate is low, why not trade it in as used equipment?
- Right now, we can offer the latest model as a rental machinery, so what do you think?



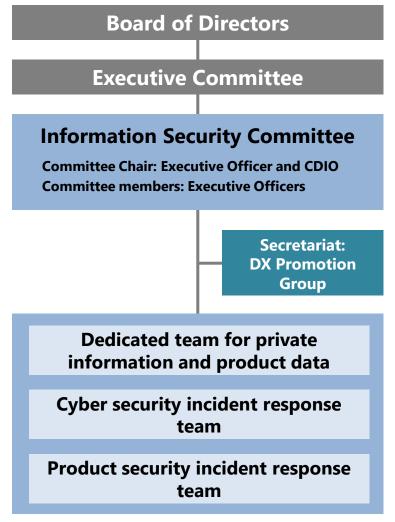
## Use of the app to propose solutions to the issues has significantly increased revenue



<sup>\*1:</sup> Aggregation limited to members with the same occupation, position, and area in 2021 and 2022. Negative revenue and other singular data values were excluded to calculate the average.

<sup>\*2:</sup> Sales personnel with an annual average of using the sales support app one or more times in two weeks Approximately 1,000 sales and service personnel are app users

To appropriately manage big data including customer information, strengthen the risk management system in the "Information Security Committee"



## Formulation and disclosure of the data governance policy

Clarify the basic policies for protecting operational data entrusted by customers and promote trust enhancement with stakeholders



Rapidly provide the optimal solution for individual customer needs through product evolution, data integration, and digital utilization

**Expansion of Solution 1.0** 

**Enhancement of Solution 2.0** 

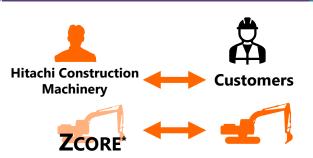
Challenge to Solution 3.0

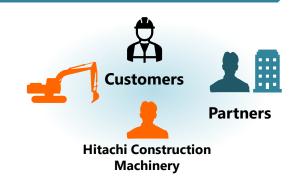
Provide services through data utilization

Product evolution through data utilization

Co-creation with customers and other industries















<sup>\*</sup>ZCORE: system platform for remote operation and autonomous operation

- Accelerate and promote DX to realize CIF (Customer Interest First)
- Introduce agile methods to cultivate a culture that provides the optimal solutions
- Aggregate and maximally utilize the data generated by all business processes and solve individual customer issues with optimal solutions

# Promote the DX strategy and aim for growth as a true solutions provider

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## 3. Progress of the Sustainability Initiative

## **Progress of the Sustainability Initiative**

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1991	Environment Group established	2021	Reorganization into four materiality themes Second ESG Explanatory Meeting
2005	CSR Promotion Department established Environmental Report issued	2022	Establishment of the ERM Committee Adopted ESG evaluation as one of the evaluation indicators for executive performance-linked compensation Declared carbon neutral in 2050 (converted to 1.5°C scenario) Introduction of Sustainable Finance Third ESG Explanatory Meeting
2011 <b>C</b>	Integrated Report issued		Priority measures and KPI updates tied to the four materialities
2015	Eight Materiality themes identification	2023	<ul> <li>Promote open innovation directed at realizing zero emissions at construction sites</li> <li>Zero Emission Business Model Planning Project</li> </ul>
2016	Environmental long-term goals for 2030 released		established • Expanded cooperation on mobile energy storage systems
2019	SBT certification acquired Sustainability Promotion Group established		<ul> <li>ZERO EMISSION EV-LAB established</li> <li>Further strengthening of our commitment to sustainability</li> <li>Participation in the GX League</li> <li>Acquired human capital-related ISO certification</li> </ul>
2020	Announced endorsement of the TCFD Recommendations TCFD scenario analysis Published four management indicato (ESG indicators)	2030 Ors 2050	<ul> <li>Green bonds issued</li> <li>Achievement of 2030 targets (environmental value, social value)</li> <li>Towards achievement of carbon neutrality</li> </ul>
	First ESG Explanatory Meeting		Ltd 2024 All rights reserved 34

#### **Approach to Realizing Zero Emissions at Construction Sites**

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## The adoption of electric construction machinery faces many challenges and providing hardware alone is not enough

Improvement of the grid power supply



Improvement of charging infrastructure



Power management method



Support on the policy and system side



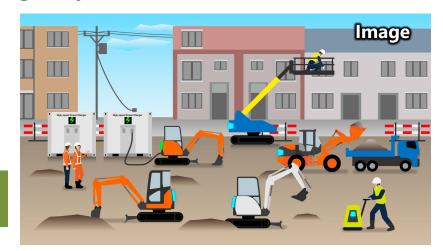
Collaboration with partners including public-private partnerships is essential to provide electrification solutions for entire construction sites

#### "Zero Emission Business Model Planning Project" established (October 2023)

 Promote open innovation with the goal of developing electrification business models for construction sites with agile methods

**New Business Creation unit** 

Zero Emission Business Model Planning Project



## Accelerating cooperation with business partners aiming for the co-creation of electrification solutions

**Expanded cooperation on mobile energy storage systems** 

Japanese market

Joint development

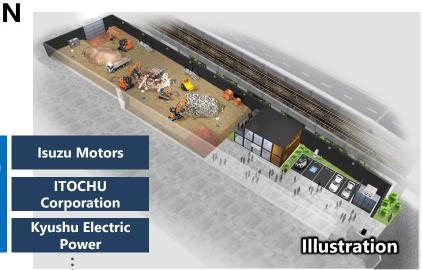
Kyushu Electric
Power





Establishment of the ZERO EMISSION EV-LAB (From May 2024)

- Permanent demo area that recreates a construction site and a communication area for visitors
- In addition to electric excavators, mobile energy storage systems, EV trucks, compaction equipment, and carrier dump trucks are scheduled to be installed



companies

### Participation in the GX League (from FY2023)



#### **GX** (Green Transformation) League

Forum for collaboration between "industry, academia, government, and financial institutions" working to transform the entire economic social system directed at achieving carbon neutrality by 2050 (led by METI)

Full-scale, voluntary trading of emissions between the participating companies is scheduled to start in FY2026

Participation goals



Cooperation with other companies



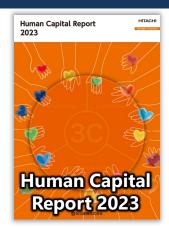
Participation in rule formation



Subsidies/preferential treatment

### Acquired human capital-related ISO certification (November 2023)

- First machinery manufacturer to acquire ISO 30414 certification, international guidelines for the disclosure of human capital reporting information.
- Issued the "Human Capital Report"
- Strengthen information disclosure, deepen dialogue with stakeholders, and utilize that to improve human capital management



### **Issuance of a Green Bond**

## Hitachi Construction Machinery plans to issue a Green Bond as its second sustainable financing initiative

#### **Overview** Total 10 billion yen amount of (planned) issue Term of 5 years (planned) issue **March 2024** Issue date (planned) Reporting to be implemented after **Notes** issuance

### Purpose of funds (examples)









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## 4. Summary

1

## Value Creation Strategy of Hitachi Construction Machinery Group

We have formulated a new group identity for our "Second Start-up". We aim to realize a safe and sustainable society through our four materiality initiatives.

2

### **DX Strategy for Accelerating Value Creation**

Organization building/corporate culture reform/specific initiative case examples

Accelerating DX to achieve Customer Interest First (CIF). We provide the best solution for each customer's issue by using agile methods and data utilization.

3

### **Progress of the Sustainability Initiative**

**Expanding collaboration with partners to achieve zero emissions at construction sites.** 

We strengthen our commitment to sustainability in terms of information disclosure and financing, aim to achieve carbon neutrality.

## **Reference Materials**

Provides Hitachi Construction Machinery's business data, machine and cloud data with a "data freshness that is close to reality"

**Applications ConSite and various other applications** realizing CIF **Data utilization** Access control **API platform** platform platform DX platform **Strengthens Collects and provides** Integrates with other fresh data governance/security systems **Business** Core systems (ERP/IoT) support systems

# **Emergency**

#### **Ensure business continuity by strengthening computer cyber security** Build a global CSIRT\* with the goal of implementing a robust structure

Background: cyber attacks increasing globally and becoming more complex and advanced

Initiative: build a CSIRT to enable early incident detection and early recovery of affected systems by responding under normal and emergency conditions

Normal

Prepare for security incidents through education, risk analysis, incident detection, management of vulnerability information, and audits, etc.

**Early detection Early recovery** 

Respond during security incidents by collecting and analyzing information (logs) about affected areas, prevent expansion of affected areas, and recover systems, etc.

### **CSIRT-based** cybersecurity response

Strategy ► establish a cyber security structure Prevention and discovery independent planning, preparation, and execution

Recovery ▶ establish and improve our incident structure

From FY2022

**July 2023** 

**Until FY2025** 

**CSIRT** construction

**Joined the Nippon CSIRT Association** Cooperate and share information

with other companies

Global CSIRT construction

\*CSIRT: Computer Security Incident Response Team. Name of an organization that handles computer security-related incidents. CSIRT activities include the constant collection and analysis of incident-related information, vulnerability information, and signs of attack and the formulation of response policy and procedures, etc.

### **Priority Measures and Company-wide KPIs**

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· · · New or changed KPIs

Materi		//D)		FY2022	FY2025	FY2030	
alities	Priority measures		KPIs		Results	Targets	Targets
Product and technology development contributing to climate change mitigation and adaptation	Accelerating the development of decarbonization technologies	CO2 reduction	Product use (Scope3, Category11)	CO2 reduction (absolute emissions) : compared to fiscal 2010	▲21.9%	<b>▲22</b> %	▲33%
13 CLIMATE	Introduce renewable energy and systematically invest in high-efficiency facilities		Production (Scope1+2)	CO2 reduction (absolute emissions) : compared to fiscal 2010	▲33.0%	▲40%	<b>▲45</b> %
Conversion to recycling- oriented business	Developing parts reuse and recycling business, against the backdrop of a circular economy	Resource recycling	Value chain	Growth rate of reused parts (weight basis) via remanufacturing : compared to fiscal 2022	±0%	+40%	+150%
model	Reduction of waste		Waste	Recycling rate (Japan)	93.7%	94%	Aiming for 99.5% or higher
12 RESPONSIBLE CONSUMPTION AND PRODUCTION	Effective use of water resources		Water	Usage reduction (intensity) compared to fiscal 2010	▲31.7%	<b>▲34</b> %	Advanced water recycling usage / Minimization of regional impact
	Develop branded used equipment that is well-maintained and include warranties	Regional coexistence through the promotion of a circular economy		Expansion in used equipment business sales revenue : compared to fiscal 2022	±0%	+8%	Adoption of products that meet regional needs
				Growth rate of certified used equipment <sup>*1</sup> under warranty : compared to fiscal 2022	±0%	+5%	+10%
	Improving the operation of rental equipment using data			Expansion in sales revenue from the rental business : compared to fiscal 2022	±0%	+30%	Adoption of products that meet regional needs
				Rental occupancy rate in Japan (total of 3 products <sup>*2</sup> ): compared to fiscal 2022	±0%	+4%	+9%

<sup>\*1: &</sup>quot;PREMIUM USED" is a product brand for used equipment with warranty certified by Hitachi Construction Machinery.

These products are provided with warranty only after passing inspection and satisfying set criteria stipulated by Hitachi Construction Machinery Group and authorized dealers.

X2: Hydraulic Excavators, Mini Excavators, and Wheel Loaders

### **Priority Measures and Company-wide KPIs**

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· · · New or changed KPIs

Material ities	Priority measures	KPIs		FY2022	FY2025	FY2030
				Results	Targets	Targets
Creating innovative solutions for challenges faced by customers supporting social infrastructure  9 MONTH NOVARIAN AND AND AND AND AND AND AND AND AND A	Contribute to cooperative construction machinery, operation support systems, and site safety	Improving safety	Functionality to reduce accidents caused by Hitachi Construction Machinery's products	Release assistance equipment designed to reduce collision damage (small-size road construction machines)	Achieve cooperative control between people and machinery	Contribute to "zero" overturn and fatal accidents
	Accelerating the development of automated and remote operation of construction machinery	Increasing productivity	Develop and expand products and system that contribute to increasing productivity	Develop and promote the demonstration test of engine less, full- electric Dump Truck New Model Development Sec. at the Kansani Copper and Gold Mine (Zambia) by the end of FY2023	Disclose information on efforts to develop and expand products and system that contribute to improved Productivity	Aiming for the standardization of automated and labor saving construction machinery
	Reduce life cycle costs through stable construction machinery operations	Reducing life cycle costs	"ConSite Pocket" <sup>*3</sup> number of monthly access users	3,619 users	5,500 users	7,000 users
			Number of used equipment status changes <sup>&amp;4</sup>	1,356	3,000	4,200
			Engine oil change implementation rate by "ConSite OIL" <sup>#5</sup> condition monitoring	77%	80%	90%
	Accelerate the development of products and solutions	R&D system	Ratio of R&D costs to sales revenue	1.9%	3% or higher	3% or higher

<sup>\*3 :</sup> A smartphone app that monitors the status of customer-owned machines to achieve appropriate service support and down time savings. Timely alarm reports are provided by "ConSite Pocket" to realize appropriate preventive maintenance.

<sup>\*4:</sup> Transferring the machine data on system so that used equipments flowing from other regions can be managed in the area where they are in operation. The status will be changed to extend the life of the machine by strengthening support for used equipment users.

<sup>\*5 : 24-</sup>Hour Monitoring Solution with oil Monitoring sensor. By monitoring the condition with "ConSite OIL" and reliably implementing oil changes, machine failure is prevented.

## **Priority Measures and Company-wide KPIs**

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· · · New or changed KPIs

Materi	Duiovity magazuras	KPIs		FY2022	FY2025	FY2030
alities	Priority measures		NTIS	Results	Targets	Targets
Streng- thening global govern- ance	Respect for Human Rights in the Value Chain	Respect for human Rights	Participation rate of education on "Business and Human Rights"	94.6%	100%	100%
	Promoting Global Human Resource Management	Global leaders	Leadership training enrollment ratio (global)	84% (total)	100% (total)	100% (total)
5 GENOER EQUALITY	Diversity, Equity & Inclusion (DE&I)	Diversity initiatives	Ratio of managers by gender (Consolidated)	Female 11.2% Male 16.0%	Female 13% Male 15%	Aim for gender parity
			Localization ratio of GM or higher in overseas group companies	72%	75%	87%
8 DECENT WORK AND ECONOMIC GROWTH	Global occupational safety and health management	Occupational hazards	Zero occupational hazards (compared to the previous FY)	145% (Compared to FY2021)	-50% (Compared to FY2024)	Aim for zero
	Fair and responsible procurement	Fair and responsible procurement	Implementation of supply chain sustainable survey	84%	95%	Aim for 100% recovery through stable operations
	Increased transparency of management decision-making and the process leading to results	Corporate governance	Outside directors, female directors, non- Japanese directors	Outside directors: 6 out of 10 Female directors, non-Japanese directors: 2	Majority of each of Nominating/Comp ensation and Audit Committee is composed of independent Outside Director.	Shift to a system suitable for strengthening the business and improving governance
	Corporate ethics and Compliance	Eradicate corruption and bribery	Number of corruption and bribery legal violations	0 cases	0 cases	0 cases
		Corporate ethics and behavior	Thorough legal compliance in business activities	0 serious violations	0 serious violations	0 serious violations

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This material contains forward-looking statements that reflect management's views and assumptions in the light of information currently available with respect to certain future events, including expected financial position, operating results, and business strategies. Actual results may differ materially from those projected, and the events and results of such forward-looking assumptions cannot be assured.

Factors that may cause actual results to differ materially from those predicted by such forward-looking statements include, but are not limited to, changes in the economic conditions in the Company's principal markets; changes in demand for the Company's products, changes in exchange rates, and the impact of regulatory changes and accounting principles and practices.

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