

Hitachi Investor Day 2023

Green Strategy

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Contents

1. The Green light is on

- 2. Hitachi is ready and best placed to lead the transition
- 3. Case studies of Hitachi Green success
- 4. Summary and Conclusion

1-1. Green Energy and Mobility market growing strongly

Market is attractive - huge investment to accelerate green transition and electrification even in adversity



Power Grids Business Unit Order Intake^{*1}

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*1: FY2023 order forecasts exclude certain large-scale projects with strong prospects, due to uncertain timing of order confirmation.

*2: 9 months from Jul 2020-Mar 2021 *3: Market share based on internal estimates as of May 2023

1-2. Hitachi is investing for a bright Green future

Hitachi is investing in new technologies that drives the transition for future opportunities



Hitachi will invest more than ¥0.8tn* on R&D activities during 2024 MMP period

*Total investment in 3 sectors plus corporate advanced research. The equivalent investment during 2021 MMP was approx. ¥0.6tn.

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1-3. New markets are emerging



*1:Source: P&S Intelligence, "Europe Energy Management System Market Report" *2:Source: IDTechEx, "Second-life Electric Vehicle Batteries2020 -2030", "Second-life Electric Vehicle Batteries2023 -2033"

1-4. Simplification, Digitalization and Greenification





*1: Mitsubishi Hitachi Power Systems, Ltd. *2: Mitsubishi Heavy Industries, Ltd.

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Contents

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2-1. Green Energy & Mobility our Future World





2-2. Green Energy Transition

Hitachi is at the forefront of the transition with our holistic solutions



*Source: McKinsey& Company, "Identifying opportunities and starting to build a new green business in the industrial sector" (Oct, 2022)

Potential market opportunity in 2030* Up to \$1.5tn/annum

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- No.1 market share
- Integration investment substantially completed by the end of FY2023
- Digital lab established in partnership with GlobalLogic



8

2-3. Green Energy Transition

Power Grids backlog doubled since acquisition with increasingly attractive mix



Advanced integration of Hitachi Energy

- Acquired remaining 20% stake from ABB in December 2022
- Backlog doubled since acquisition in 2020 and de-risked through business model transformation
- Significant growth in service business contributing to improved margins



Operating model and key characteristics (Illustrative)



2-4. Nuclear Energy and Hitachi Power Solutions



Nuclear Energy

Contribute to carbon neutrality through our nuclear technology

Japan market restarting



- Totally support early BWR plant restarts and Fukushima decommissioning as a leading company
- Built-in safety enhancement for new-build (ex. HI-ABWR^{*1}) and develop fast reactor for fuel cycle to meet growing nuclear demand

Huge potential for Small Modular Reactor in partnership with GE



- Top runner for the deployment of SMR through our global partnership with GE
- Underpin the technology by Hitachi's excellent plant engineering, module planning, and manufacturing for main components

*1: High Innovative ABWR: Advanced large reactor with enhanced safety and economic efficiency
*2: GE Hitachi Nuclear Energy, Ontario Power Generation, Tennessee Valley Authority, Orlen Synthos Green Energy

Hitachi Power Solutions

- Best use of energy such as power or heat, with asset light solution driven by data
- Provide "Visualization, Optimization, Operation and Maintenance" as a service

Carbon Neutral as a Service (CNaaS)



Service Network Center



• A nationwide 35 service network center help customers 24 hours 365 days



2-5. Green Mobility Transition

Hitachi is at the forefront of the transition with our holistic solutions



*Source: McKinsey& Company, "Identifying opportunities and starting to build a new green business in the industrial sector" (Oct 2022)

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2-6. Green Mobility Transition

Transformation for further growth and profitability





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2-7. Green Industry Transition Diverse accessible markets

Mega Charging System for Mining



Hitachi Energy has been selected as a technology vendor in the Charge On™ Innovation Challenge, to solve one of the biggest challenges in decarbonizing mining operations: the electrification of haul trucks.

CN for Retail



Case study from Connective Strategy presentation

CN for EV Value chain

Hitachi Energy and H2 Green Steel partner to leverage electrification, digitalization, and hydrogen for green steel production



Case study from Connective Strategy presentation

*Source: McKinsey& Company, "Identifying opportunities and starting to build a new green business in the industrial sector" (Oct, 2022)

Potential market opportunity in 2030* Up to \$2.0tn/annum

Hitachi is driving the transition supporting our customers throughout their Green journey



Steady growth in Lumada revenue

Green Energy and Mobility sector Lumada Revenue Unit: ¥bn 500 450 -----440 Original FY2024 target 370 in MMP2024 350 318 300 250 200 FY2022 FY2023 FY2024 Actual Forecast Target

- Expect to overachieve our MMP target for FY2024
- Digital enablers are further accelerating the growth of Green business
- Closely working with GlobalLogic in both Energy and Mobility businesses

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Contents

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3-1. DX x GX for Growth with GlobalLogic





Case study from Digital Strategy presentation

Case study from Digital Strategy presentation

3-2. Case studies of Hitachi Green Successes





A 20-year collaborative partnership delivering a pioneering autonomous metro

Providing the technology, vehicles and operation capability for Copenhagen's pioneering autonomous 24H metro system

HVDC - a digitalised way of transmitting energy

Our HVDC Light[®] transmission system will transfer renewable energy for over 1 million New York homes and help achieve the state's climate goals

Zero emission mobility - at the crossroad of Energy & Mobility

We are partnering with our customer First Bus at their Caledonia depot in Glasgow, which is one of the largest EV charging hubs in Europe

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Contents

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A Green strategy...

- Hitachi is unique in its GX x DX capability
- More than ¥0.8tn will be invested in R&D during 2024 MMP
- Hitachi portfolio effectively addresses the Green agenda

...reflecting in performance

- Hitachi Green Energy and Mobility is growing at 13% CAGR*
- Power Grids market leader in growing HVDC market
 - Integration nearing completion
- Rail on course to strengthen Rail Control business
 - Thales GTS targeted to close 2nd half of FY2023

Hitachi Social Innovation is POWERING GOOD

Appendix. Hitachi Organization Chart



Source: News Releases : February 1, 2023 : Hitachi Global

*1: Power Grids BU (¥1,438.7 bn sales in FY2022) includes Hitachi Energy Ltd. (¥1,413.9 bn sales in FY2022).



Hitachi Energy and Petrofac secure landmark offshore wind agreement worth approximately 13 billion euros

- Largest framework agreement in Hitachi Energy company history, enabling long-term capacity expansion to accelerate the energy transition.
- Complementary technologies and expertise support TenneT's offshore wind capacity expansion in the German and Dutch sectors of the North Sea.



2GW offshore platform. Photo courtesy of TenneT

Source: News Releases : March 30, 2023 : Hitachi Global

Abbreviation	Definition
ABWR	Advanced Boiling Water Reactor
BESS	Battery Energy Storage System
BWR	Boiling Water Reactor
CCUS	Carbon dioxide Capture and Storage
CNaaS	Carbon Neutral as a Service
DERMS	Distributed Energy Resource Management System
EMS	Energy Management System
HVDC	High Voltage Direct Current
MaaS	Mobility as a Service
MRV	Monitoring, Reporting and Verification
SMR	Small Modular Reactor
V2X	Vehicle to Everything

Cautionary Statement

Certain statements found in this document may constitute "forward-looking statements" as defined in the U.S. Private Securities Litigation Reform Act of 1995. Such "forward-looking statements" reflect management's current views with respect to certain future events and financial performance and include any statement that does not directly relate to any historical or current fact. Words such as "anticipate," "believe," "expect," "estimate," "forecast," "intend," "plan," "project" and similar expressions which indicate future events and trends may identify "forward-looking statements." Such statements are based on currently available information and are subject to various risks and uncertainties that could cause actual results to differ materially from those projected or implied in the "forward-looking statements" are based upon current assumptions of future events which may not prove to be accurate. Undue reliance should not be placed on "forward-looking statements," as such statements speak only as of the date of this report.

Factors that could cause actual results to differ materially from those projected or implied in any "forward-looking statement" and from historical trends include, but are not limited to:

- economic conditions, including consumer spending and plant and equipment investment in Hitachi's major markets, as well as levels of demand in the major industrial sectors Hitachi serves;
- exchange rate fluctuations of the yen against other currencies in which Hitachi makes significant sales or in which Hitachi's assets and liabilities are denominated;
- uncertainty as to Hitachi's ability to access, or access on favorable terms, liquidity or long-term financing;
- uncertainty as to general market price levels for equity securities, declines in which may require Hitachi to write down equity securities that it holds;
- fluctuations in the price of raw materials including, without limitation, petroleum and other materials, such as copper, steel, aluminum, synthetic resins, rare metals and rare-earth minerals, or shortages of materials, parts and components;
- credit conditions of Hitachi's customers and suppliers;
- general socioeconomic and political conditions and the regulatory and trade environment of countries where Hitachi conducts business, particularly Japan, Asia, the United States and Europe, including, without limitation, direct or indirect restrictions by other nations on imports and differences in commercial and business customs including, without limitation, contract terms and conditions and labor relations;
- uncertainty as to Hitachi's ability to response to tightening of regulations to prevent climate change
- uncertainty as to Hitachi's ability to maintain the integrity of its information systems, as well as Hitachi's ability to protect its confidential information or that of its customers;
- uncertainty as to Hitachi's ability to attract and retain skilled personnel;
- uncertainty as to Hitachi's ability to continue to develop and market products that incorporate new technologies on a timely and cost-effective basis and to achieve market acceptance for such products;
- exacerbation of social and economic impacts of the spread of COVID-19;
- the possibility of disruption of Hitachi's operations by natural disasters such as earthquakes and tsunamis, the spread of infectious diseases, and geopolitical and social instability such as terrorism and conflict;
- estimates, fluctuations in cost and cancellation of long-term projects for which Hitachi uses the percentage-of-completion method to recognize revenue from sales;
- increased commoditization of and intensifying price competition for products;
- fluctuations in demand of products, etc. and industry capacity;
- uncertainty as to Hitachi's ability to implement measures to reduce the potential negative impact of fluctuations in demand of products, etc., exchange rates and/or price of raw materials or shortages of materials, parts and components;
- uncertainty as to the success of cost structure overhaul;
- uncertainty as to Hitachi's ability to achieve the anticipated benefits of its strategy to strengthen its Social Innovation Business;
- uncertainty as to the success of acquisitions of other companies, joint ventures and strategic alliances and the possibility of incurring related expenses;
- uncertainty as to the success of restructuring efforts to improve management efficiency by divesting or otherwise exiting underperforming businesses and to strengthen competitiveness;
- the potential for significant losses on Hitachi's investments in equity-method associates and joint ventures;
- uncertainty as to the outcome of litigation, regulatory investigations and other legal proceedings of which the Company, its subsidiaries or its equity-method associates and joint ventures have become or may become parties;
- the possibility of incurring expenses resulting from any defects in products or services of Hitachi;
- uncertainty as to Hitachi's access to, or ability to protect, certain intellectual property; and
- uncertainty as to the accuracy of key assumptions Hitachi uses to evaluate its employee benefit-related costs.

The factors listed above are not all-inclusive and are in addition to other factors contained elsewhere in this report and in other materials published by Hitachi.