

Hitachi Energy Investor Days 2023

November 13-15, 2023

Switzerland and Sweden





Hitachi Energy Investor Days 2023

Welcome & Introduction



Claudio Facchin

Senior Executive VP, Hitachi, Ltd. and CEO, Hitachi Energy

@Hitachi Energy

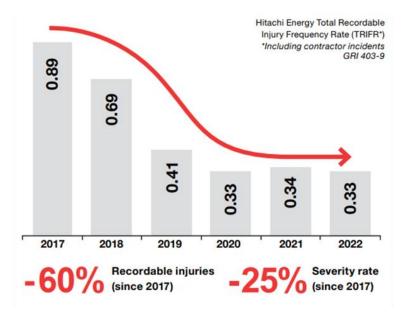
Hitachi Energy – Advancing a sustainable energy future for all



Hitachi Energy – Our License to Operate: Safety, Integrity, Quality



Health & Safety



Ethics & Integrity

2021

Ethisphere's Compliance Leader Verification™ and Anti-Bribery Management System Verification™

2022

ISO 37001 Anti-Bribery Management System global certification

Lean Six Sigma used across operations

~2k Ongoing continuous improvement projects

30k+ Employees trained in Lean Six Sigma



Quality



Safety

Integrity

Hitachi Energy – recap «Hitachi Investor Day 2022»



- We are well-positioned in attractive markets to accelerate the clean energy transition in collaboration with customers and partners as a market and technology leader in power grids
- We drive profitable and sustainable growth with our Hitachi Energy 2030 strategy, in line with the Hitachi Mid-term Management Plan 2024
- We will continue to invest in energy and digital platforms, creating social, environmental and economic value for customers, employees, investors and other key stakeholders

We are committed to deliver sustainable growth in earnings and cash

Hitachi Energy is uniquely positioned to deliver profitable and sustainable growth, collaborating with customers and partners to accelerate the clean energy transition

Hitachi Energy – Power Grids global technology and market leader

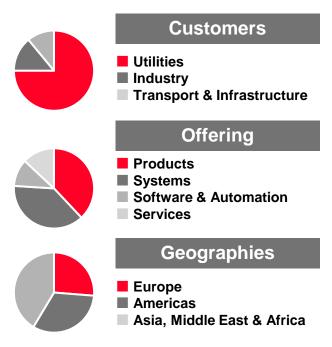


Global leader in **Power Grids technologies**

>40,000 employees

90+
countries with
200 offices

~250
years' heritage
combined



Total Energy System: **Transmission & distribution** Consumption Generation MINITED IN THE REAL PROPERTY. Expand and Decarbonize **Enable** Transform Accelerate through sustainable through lowthe shift to strengthen the energy carriers carbon renewable transmission electrification and distribution technologies power grid and digital generation solutions

% split based on FY 2022 orders

Hitachi Energy – Technology and market leader across all business units



Grid Automation (GA)



Supporting 50% of the top 250 global electric utilities

Leading Grid Edge references & > 5,000 MW¹ grid integrated (including eks Energy)

\$4 trillion+ critical infrastructure assets managed





Grid Integration (GI)



Global leader in HVDC² >150 GW³ of HVDC links integrated into the power system

4,000+ power quality systems operating globally, across 50+ countries

~15,000 systems operating globally, across 50+ countries





High Voltage Products (HV)



Installed 1 out of 4 high-voltage switchgear in the world

>500k high-voltage circuitbreakers installed globally

Leading EconiQ SF₆ –free highvoltage product portfolio







Market share

Transformers (TR)



Global leader across complete range of transformers, components & services

From distribution up to UHV⁵ 1,200 kV AC⁶ & 1,100 kV DC⁷

World's largest installed base and largest portfolio/applications





Market share

Driving innovation, pioneering digital technologies and leveraging the world's largest installed base for service opportunities

BU market share based on internal estimates on unconsolidated market – indicative: BU FY2022 revenues

¹Megawatt ²High Voltage Direct Current ³Gigawatt ⁴In power conversion technologies ⁵Ultra-High Voltage ⁶Alternating Current ⁷Direct Current

Pathway to a carbon-neutral energy system



Electricity will be the backbone of the entire energy system

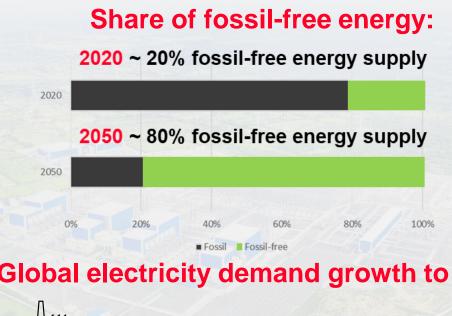
Accelerated shift from fossil-based to renewable power generation

02

Growing electrification of Transportation, Industry and **Buildings sectors**

03

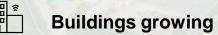
Sustainable energy carriers, complementary to direct electrification







Industries doubling to >20 PWh



~50% to >15 PWh



Transportation growing >30x to ~10 PWh

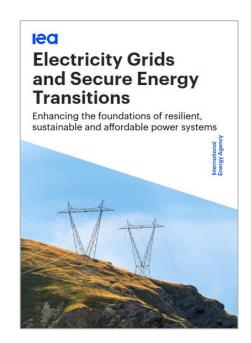
Reference value: China electricity consumption 2022 approx. 8.6 PWh, US appr. 4 PWh, EU appr. 2.8 PWh

In the global power system of 2050, we need four times of today's generation capacity and we will need to transfer three times as much electrical energy



IEA Grids report: Double grid investment to meet national climate targets

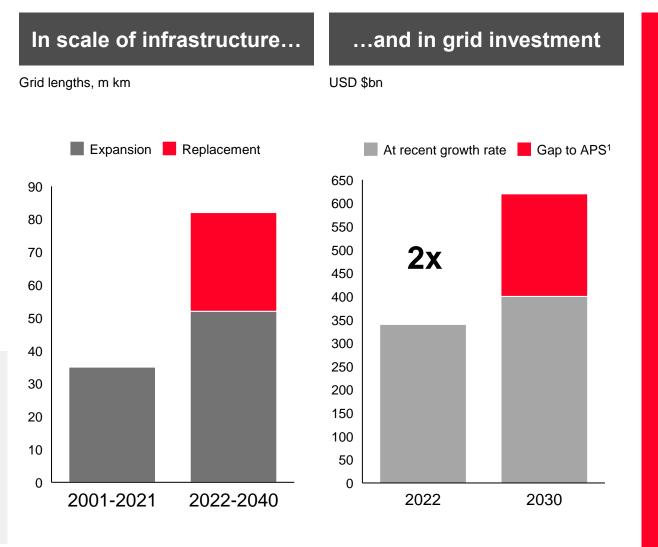






We must invest in grids today or face gridlock tomorrow

Dr. Fatih Birol **Executive Director IEA**



Key drivers



Electrification and demand growth



Renewables transition



Macro & regulatory environment



Aging infrastructure



We have streamlined the business and we are well positioned for growth













Improved performance and resilience

Enablers

Investing for growth

Business model, collaboration & innovation

Building synergies

Increasing size and quality of backlog

Operational excellence across the value chain

Expand capacity and workforce to meet growing demand

Partnerships ecosystem

Energy + Digital value creation synergies

Sustained demand across business and regions

Productivity and working capital enhancement

Digital & Service opportunities

Innovating with collaborative business models

Global footprint, e.g., account management

Proactively leverage tailwinds and mitigate headwinds

Digital and IT transformation

Innovation and R&D investment

Selectivity in line with Strategic Plan

IT, ERP harmonization



Continuing our profitable and sustainable growth journey



~15%



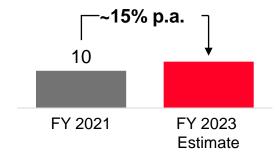
Revenue growth

(CAGR FY 2021 - FY 2023 E)

Continuously strengthen core power grids business

Further invest in growth enablers: capacity, workforce, R&D, digital

Revenue, BUSD



7 BUSD+



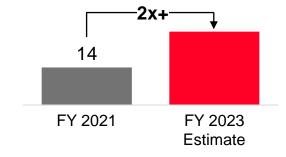
Renewable integration with new business models

(Orders FY 2021 - H1 2023)

Life cycle partner across the power value chain

Innovative business models and collaborations

Order backlog, BUSD



~0.5 BUSD p.a.

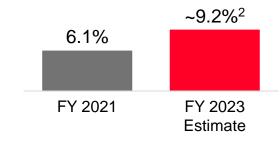


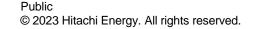
positive impact from enablers

Continue productivity and digital transformation

Proactively address commodity and inflationary headwinds

Adj. EBITA %, Standalone¹





Expanding capacity and workforce to meet demand for electrification





Since we started the journey with Hitachi in 2020, we have been able to accelerate our growth and expansion, also leveraging synergies across Hitachi Group



\$3 billion

Investments since 2020



8,000+ People hired



Manufacturing



New factory: Bac Ninh, Vietnam



New factory: Chongging, China



Expansion: Dosquebradas,



Expansion: Bland and Jefferson City in the US



New factory: Bangalore, India



New valve and C&P¹ factory: Chennai India

Engineering



- 2,500+ technologists across business and functions in one
 - Extensive capabilities from hardware to software, from **HVDC** to microgrids
- Over 1,000 engineering projects across 40+ countries executed every year



Our technologies enable the integration of 3 out of every 4 GW of installed offshore wind capacity

Countries of operations



Hitachi Energy 2030: purpose-driven strategic growth plan

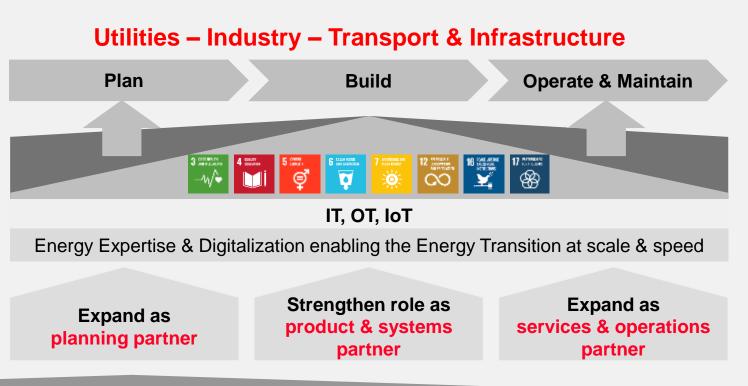


Strengthen the Core:
Continuously strengthening our power grids core business

Doubling efforts on Digital & Services.

Expanding at the edge of the energy system

Innovate & Collaborate:
Innovation, Synergies, Partnerships & M&A to accelerate growth





Hitachi Energy 2030 - our commitment to advancing a sustainable energy future for all, delivering social, environmental and economic value, aligned with Hitachi's vision and goals

Fundamental technology areas for the power system evolution



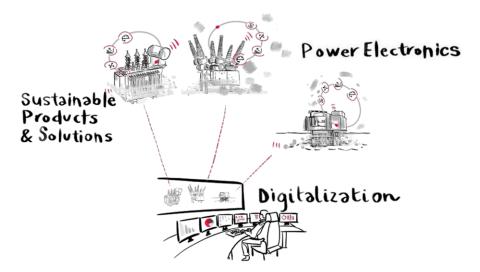








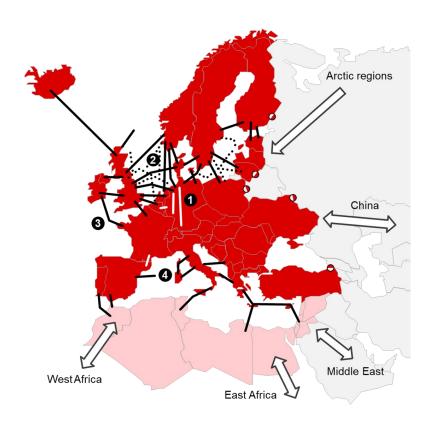
Each clean GW that we add to the energy system needs to be balanced with an increase in grid capacity and flexibility to meet security, reliability and resilience



Integrating power systems across countries and sectors



2020-2050: from some HVDC links to interconnected meshed offshore grid



TenneT 2GW: Long-term agreement with global standards & new collaborative business models



- 13 BEUR framework agreement
- Driving market and technology standards
- Enabling deployment of technology at scale
- Collaboration with partners

ADNOC – Project Lightning: Delivering clean power from shore

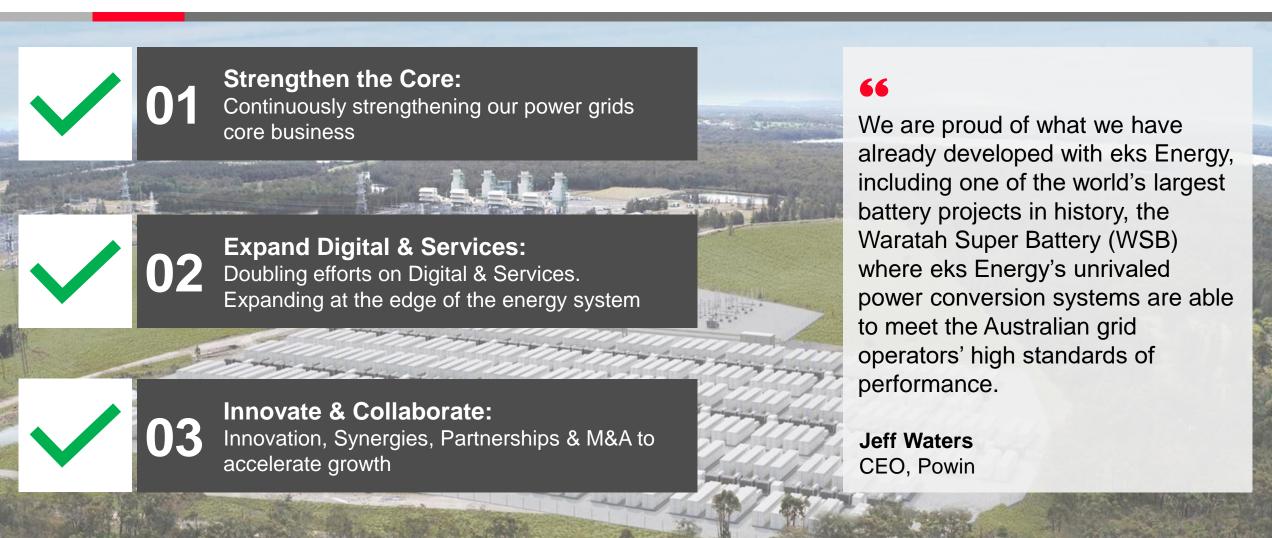


- 30% CO₂ emissions reduced in ADNOC's operations
- 100% fossil-free power from shore
- 3,200 MW of system capacity
- 4 HVDC Light[®] converter stations

Hitachi Energy market and technology leadership with over 150 GW of HVDC links integrated into the power system globally

In line with our 2030 Plan: Hitachi Energy Acquires eks Energy

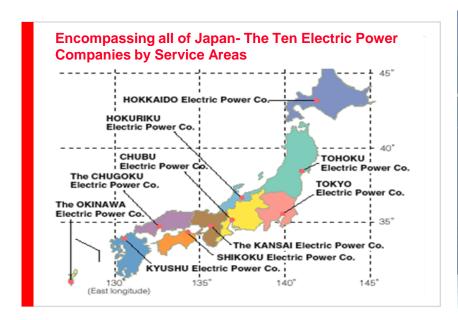




Hitachi Energy adds advanced power electronics and energy management software capabilities to meet accelerated, global demand for battery energy storage solutions

Synergies between Hitachi Energy, GlobalLogic & Hitachi Digital Services - An unparalleled competitive advantage



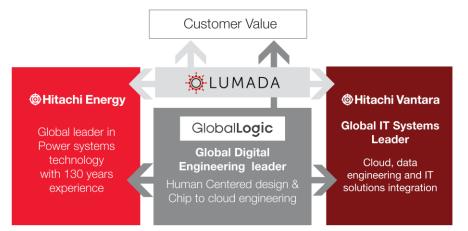




First of its kind system

integrating nationwide grid and market operations, enabled by combining Hitachi & Hitachi Energy IT/OT world-leading capabilities Combining Hitachi unique IT, OT, products and services capabilities

- Hitachi Social Infrastructure BU¹
- Hitachi Energy



Our approach to sustainability – engaging across stakeholders



Transparency, validation & recognition







Our 360° approach to ESG¹: beyond carbon neutrality

Circularity

Biodiversity

-75% Scope 1 and 2
GHG Emissions
equal to -269 ktCO₂e
vs. baseline (2019)

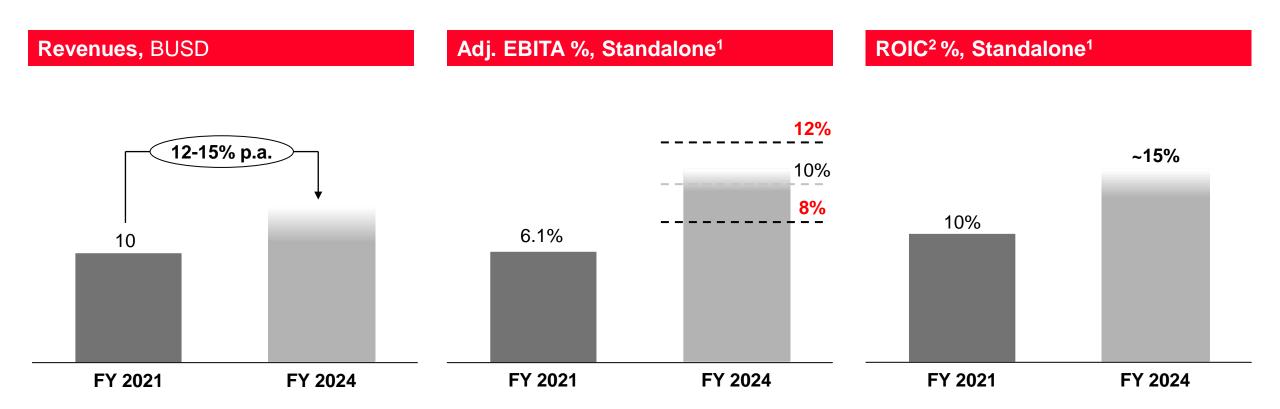
100% fossil-free electricity in our operations

Maximizing positive impact through engagement & collaboration

Updated Sustainability strategy: portfolio focus, aligned to our Hitachi Energy 2030 plan

Co-creation of social, environmental and economic value





Sustaining industry leadership in performance

Continue to grow above market and sustain margins, at upper end of range 2024+

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Hitachi Energy will continue to create significant value





Significant market tailwinds



High growth



High capital returns



High value creating business

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HITACHI Inspire the Next



Hitachi Energy Investor Days 2023

Concluding Remarks



Claudio Facchin

Senior Executive VP, Hitachi, Ltd. and CEO, Hitachi Energy

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Hitachi Energy – Advancing a sustainable energy future for all



Well positioned for profitable & sustainable growth



Well positioned...

Hitachi Energy global leader

>10 BUSD Business volume¹

>40,000 employees

90+ countries

120+ factories

World's largest installed base



Offering





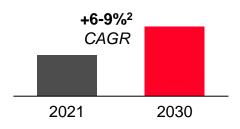
% split based on FY 2022 orders

Public

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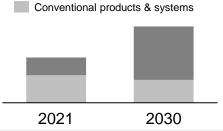
...in attractive markets...

Higher growth driven by electrification and decarbonization



Digitalized portfolio & services

Digitalized portfolio & services



Synergies between
Hitachi Energy, GlobalLogic &
Hitachi Digital Services

...with a purpose-driven strategic plan...

Hitachi Energy 2030

Strengthen the Core:

O1 Continuously strengthening our power grids core business

Digital & Services:

O2 Doubling efforts on Digital & Services. Expanding at the edge of the energy system

Innovate & Collaborate:

Innovation, Synergies, Partnerships and M&A to accelerate growth

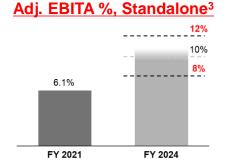
2 Foundations

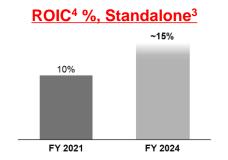
Innovation

People

....to deliver profitable and sustainable growth









Hitachi Energy will continue to create significant value





Significant market tailwinds



High growth



High capital returns



High value creating business

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HITACHI Inspire the Next