

## Business Overview Initiatives for Revitalization and the Future

May 9, 2023 Chiyoda Corporation



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## Presenter

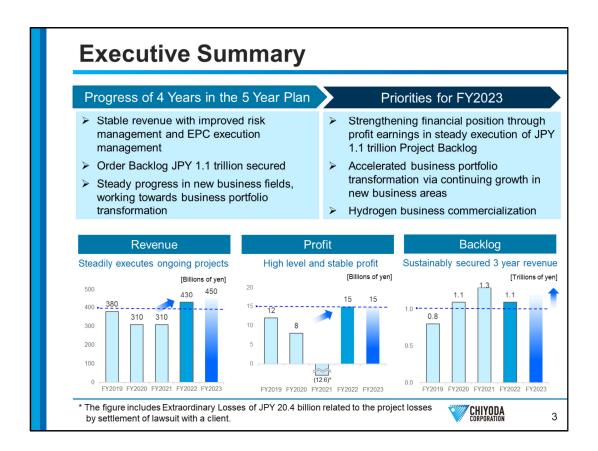


Mr. Masakazu Sakakida Chairman of the Board, President & CEO



This presentation outlines Chiyoda Corporation's (Chiyoda) business overview in the fiscal year ending March 31, 2023, released on May 9, 2023.





- Four Year Progress in the Five Year Plan
  - Revenue remains stable through steady execution of ongoing projects with improved risk and EPC execution management.
  - 2. The Order Backlog is JPY 1.1 trillion, a steady three-year revenue.
  - 3. New business creation and development is progressing towards business portfolio transformation.
- Priorities for FY2023, the last year of the Medium Term Management Plan
  - Chiyoda to strengthen its financial position through profit earnings in the steady execution of the JPY 1.1 trillion project Backlog.
  - 2. Chiyoda will accelerate its business portfolio transformation via continued growth in new business areas.
  - Chiyoda to target early commercialization of its hydrogen business.



## 1. Key Measures (Qualitative) FY2023 Measures **Key Measures** Assess Four Year Progress O\*2 Improved risk management Well-established centralized Continuously reinforcing structure risk management structure risk management Solidly secured earnings on projects awarded following Revitalization Plan 2 Improved EPC execution Optimizing overall EPC by > Project execution as management introducing Chiyoda AWP planned Improved construction execution capability Sepansion and enhancement > Acquisition of improved HR Promoting human capital of human resources (HR) information and HR career management systems development under a Human Resources Officer (HRO) Certified DX business > Improving business and Acceleration of digital operator by METI\*1 transformation (DX) promoting new business Promoting company-wide DX areas through DX 6 Business portfolio Steady progress in new Continued growth of new transformation business fields businesses Hydrogen business commercialization $^{*1}$ Ministry of Economy, Trade and Industry CHIYODA

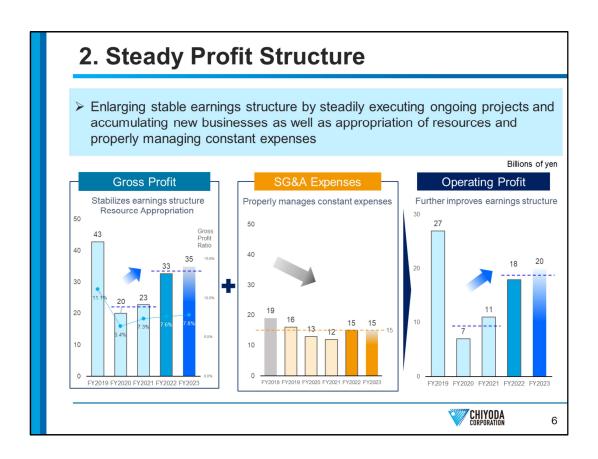
Key measures towards revitalization and stabilization:

- Improved risk management
- 2 Improved EPC execution management
- 3 Expansion and enhancement of human resource systems

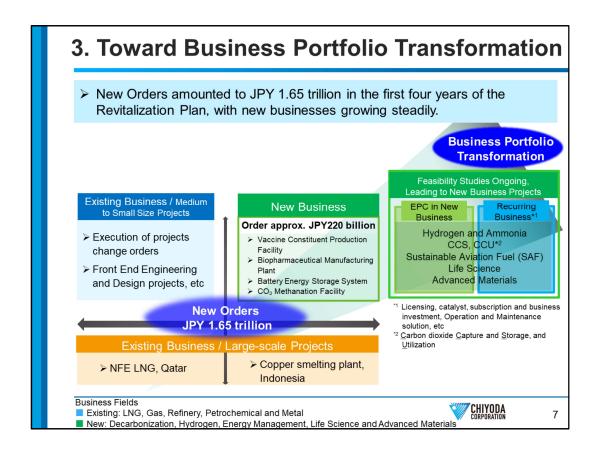
## Key growth strategies:

- 4 Acceleration of digital transformation
- 6 Business portfolio transformation

All measures are steadily progressing.

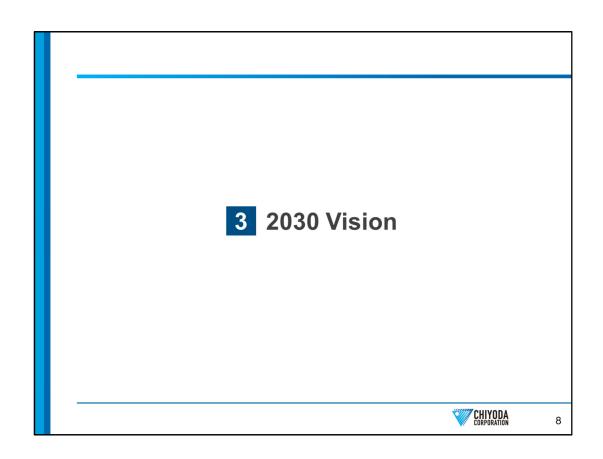


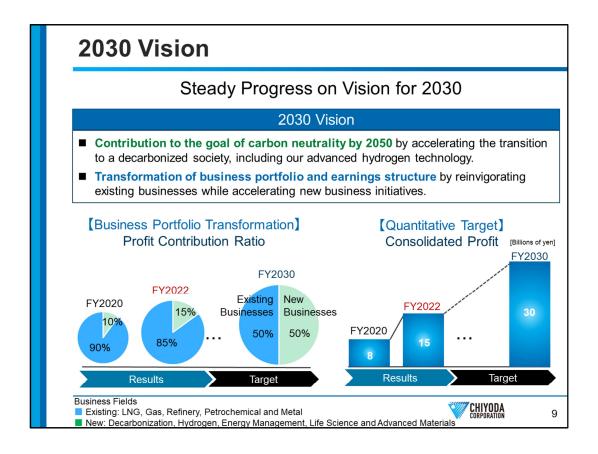
Chiyoda is expanding its stable earnings structure by steadily executing ongoing projects, accumulating new businesses, effectively allocating resources and managing expenses appropriately.



New Orders amounted to JPY 1.65 trillion in four years. JPY 220 billion is for new businesses.

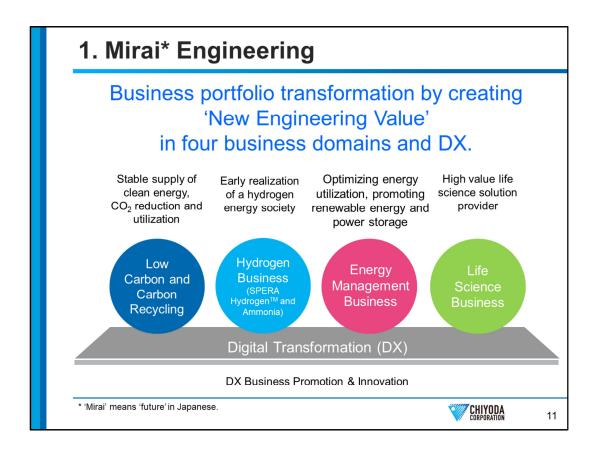
Feasibility studies leading to new business projects are ongoing.



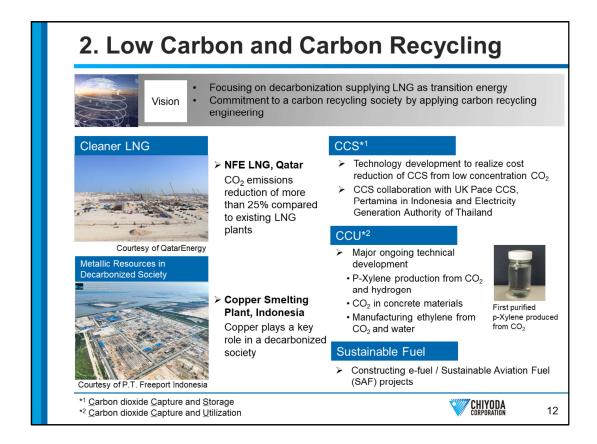


- Chiyoda has established the following 2030 vision:
  - Chiyoda will contribute to the goal of carbon neutrality by 2050 by accelerating the transition towards a decarbonized society using our advanced technology.
  - 2. Chiyoda will transform its business portfolio and earnings structure by reinvigorating existing businesses while accelerating new business initiatives.
- 2030 vision quantitative progress as of March 2023
  - New business profit contribution ratio was 15% with a 2030 target of 50%.
  - Consolidated profit was JPY 15.2 billion with a 2030 target of JPY 30.0 billion.
- Chiyoda aims to realize its 2030 vision by accelerating new business initiatives.

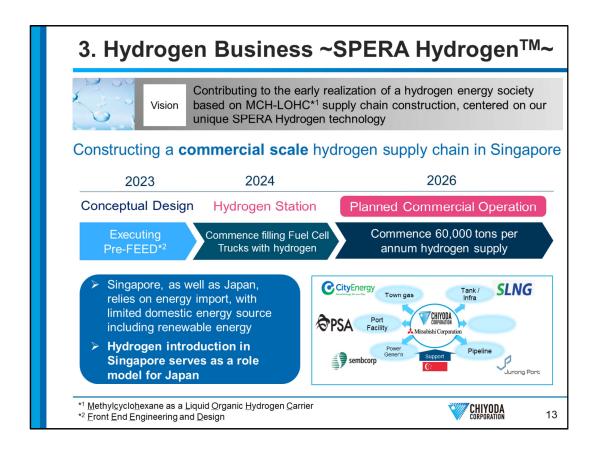




Chiyoda aims to realize business portfolio transformation by creating 'New Engineering Value' in the four business domains of Low Carbon and Carbon Recycling, Hydrogen Business, Energy Management Business and Life Science Business, as well as Digital Transformation.



- Chiyoda promotes cleaner LNG by incorporating Carbon dioxide Capture and Storage (CCS) technology in LNG plants, reducing CO<sub>2</sub> emissions by over 25% on NFE LNG in Qatar compared to existing LNG plants.
- The metal resource field will also contribute to a carbon free society and Chiyoda is constructing a copper smelting plant in Indonesia.
- Chiyoda will continue promoting CO<sub>2</sub> emission reductions through the utilization of CCS, Carbon dioxide Capture and Utilization (CCU) and sustainable fuel, such as e-fuel, and Sustainable Aviation Fuel.

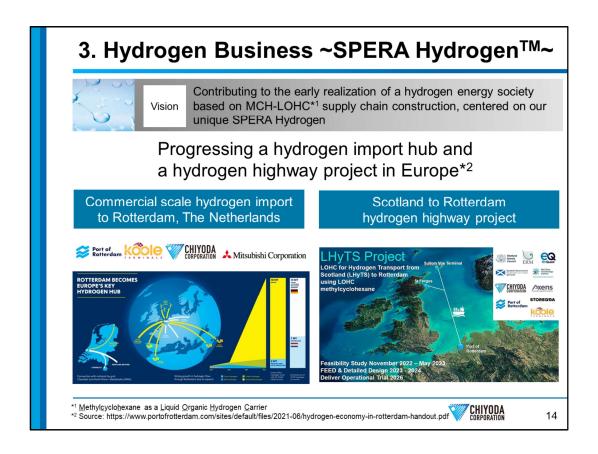


Chiyoda will continue promoting international hydrogen supply chain construction initiatives centered on our unique SPERA Hydrogen<sup>TM</sup> technology.

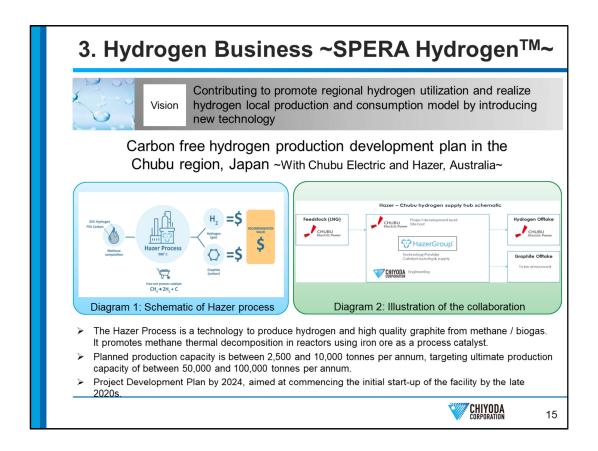
In Singapore, Chiyoda is constructing a commercial scale hydrogen supply chain, targeting commercial operation in 2026.

It is expected to be the largest clean hydrogen supply business in Asia with 60,000 tons production per annum.

Introducing hydrogen into Singapore serves as a role model for Japan because both countries rely on overseas imports for energy.

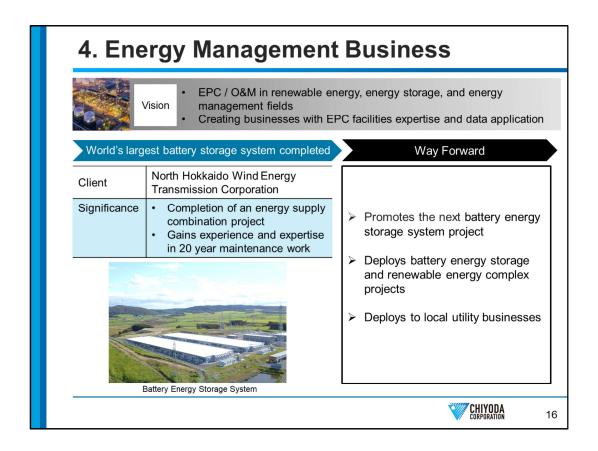


In Europe, a hydrogen advanced region, Chiyoda is participating in and promoting two large-scale projects: a commercial scale 'Hydrogen Import Hub Scheme' in the port of Rotterdam, The Netherlands and a Scotland to the port of Rotterdam 'Hydrogen Highway Scheme'.



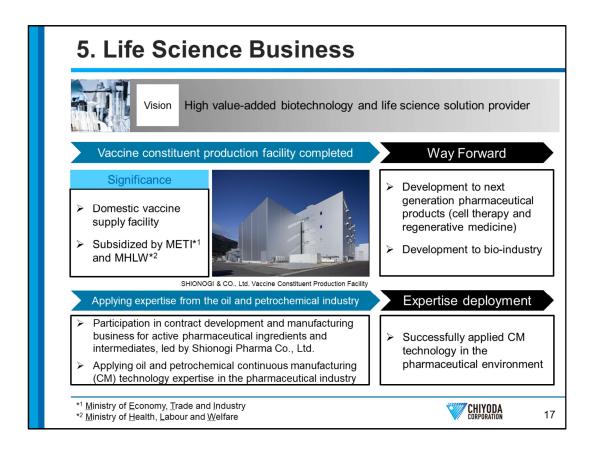
In Japan, Chiyoda is planning carbon free hydrogen production development in the Chubu region with Chubu Electric Power Company Inc. and an Australian company, Hazer Group Ltd.

The three companies aim to establish a development plan by 2024 and commence initial start-up of the facility by the late 2020s.



In March 2023, Chiyoda completed the world's largest battery energy storage system, accumulating a track record in proposing ideal energy supply combinations.

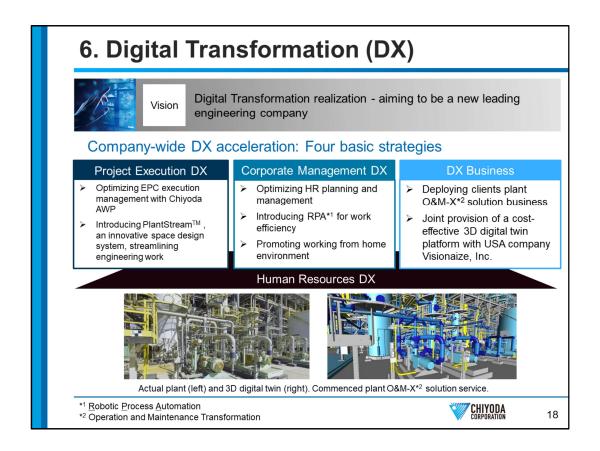
Chiyoda will use the experience to expand its Energy Management Business and a further order for the Engineering, Procurement and Construction (EPC) of another battery energy storage system project has been received.



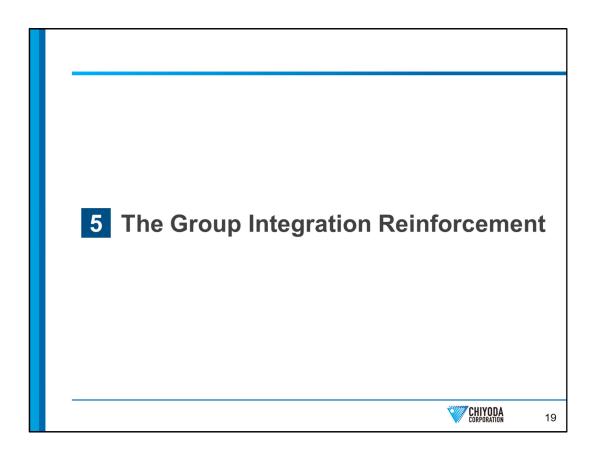
Chiyoda will expand its Life Science Business, maximizing its successful EPC completion track record and expertise from the oil and petrochemical industry.

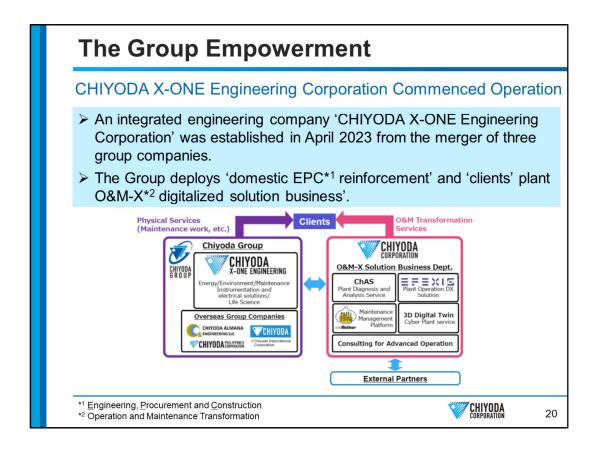
In January 2023, Chiyoda completed a vaccine constituent production facility for SHIONOGI & Co., Ltd and we will use this experience in the next generation of pharmaceutical products and bio-industry.

Chiyoda participates in the contract development and manufacturing business for active pharmaceutical ingredients and intermediates, led by Shionogi Pharma Co., Ltd and we will apply our oil and petrochemical continuous manufacturing (CM) technology expertise in the pharmaceutical industry.



Chiyoda pursues three basic strategies in cultivating digital expertise as a foundation for digital transformation (DX) in the development of a digital culture towards company-wide DX acceleration: Project Execution DX, Corporate Management DX and DX Business.

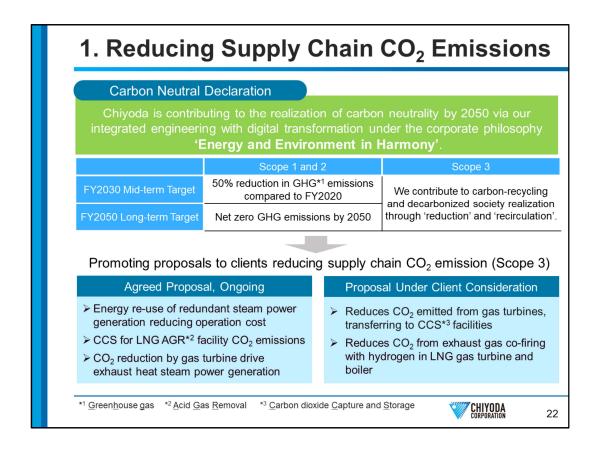




An integrated engineering company, 'CHIYODA X-ONE Engineering Corporation' was established in April 2023 from the merger of three group companies.

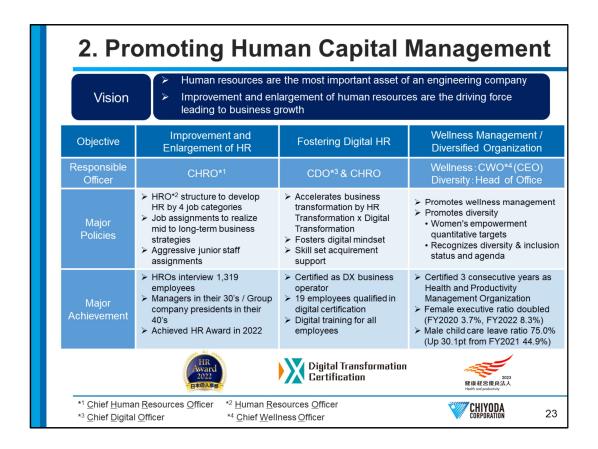
The Chiyoda Group will deploy 'domestic EPC reinforcement' and a 'client plant Operation and Maintenance Transformation digitalized solution business', harnessing the engineering expertise of each of the three companies.





Chiyoda declared its carbon neutrality goals in April 2022. The greatest challenge is CO<sub>2</sub> emission reduction in Scope 3 of the supply chain. As an initial step, Chiyoda continues to propose solutions to clients.

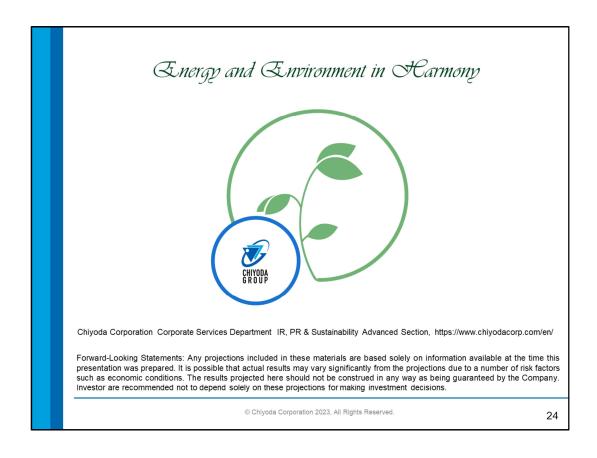
Chiyoda will continue contributing to carbon-recycling and realize a decarbonized society through both recirculation and reduction, cooperating with stakeholders such as clients, suppliers and partners.



'Human resources (HR) are the most important asset of any engineering company. Improvement and enlargement of human resources are the driving force leading to business growth.'

Based on our HR philosophy, Chiyoda has implemented multilateral measures with three objectives: 'Improvement and Enlargement of HR', 'Fostering Digital HR' and 'Wellness Management / Diversified Organization'. The measures are proving successful.

Chiyoda will continue promoting human capital management to realize sustainable growth.



FY 2023 is the last fiscal year in the five-year medium term management plan.

Looking back at the last four years, Chiyoda is steadily progressing in both qualitative and quantitative aspects.

FY 2023 will be the final year of the current plan in contributing to stable project profit towards further growth. We will commence a new management plan in FY 2024.