

Current Status of Progress on the KOBELCO Group Medium-Term Management Plan (FY2021-2023)

May 19, 2022 Kobe Steel, Ltd. 01. Introduction02. Establishing a stable stable

02. Establishing a stable earnings base03. The challenge of carbon neutrality



Priority issues under the KOBELCO Group Medium-Term Management Plan

Fully achieve during the three-year period of the Plan

Establishing a stable earnings base

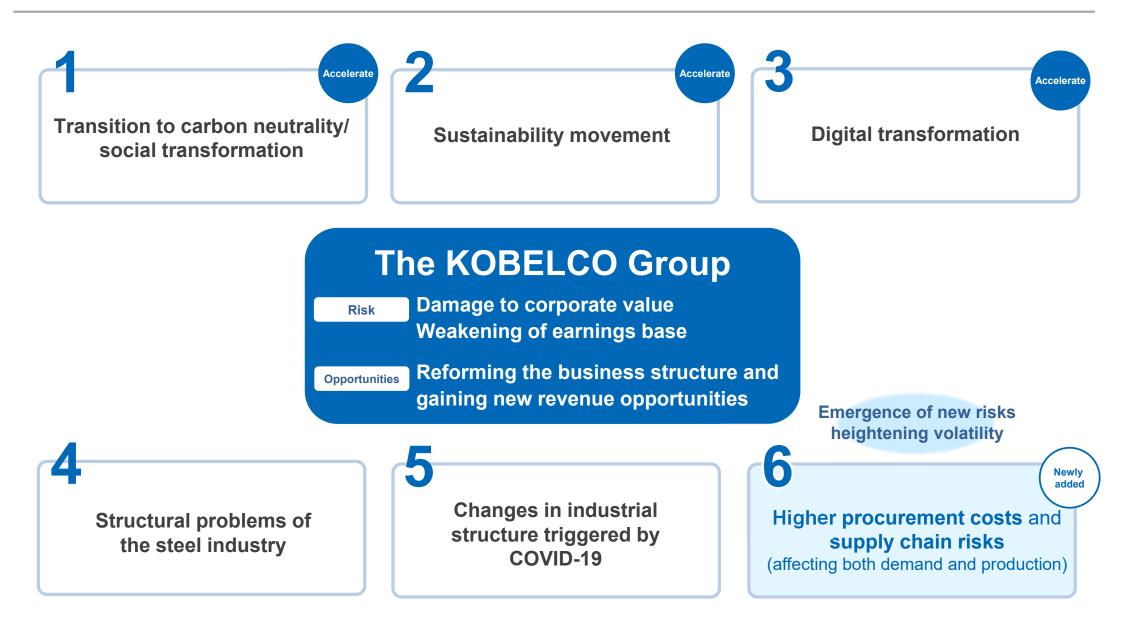


Lay foundations from a long-term view

The challenge of carbon neutrality

Introduction

Assessment of the current business climate





Enhancing corporate value by reducing cost of capital and responding to growing markets

Enhancing corporate value

Generate greater return to stakeholders

Reduce cost of capital and consistently achieve return (ROIC) surpassing that cost

Now more important than ever

Make a distinction between "strategy leading to lower cost of capital" and "responding to growing markets"

- Strategy leading to lowercost of capital
 - Strengthen the earnings base of existing businesses and transform to a stable earnings structure
 - Strengthening of the financial base

Responding to growing markets

Expand businesses in line with the efforts toward carbon neutrality



Introduction Establishing a stable earnings base The challenge of carbon neutrality



Establishing a stable earnings base

Status of profitability (ROIC)

Targets given in the Medium-Term Management Plan

Vision of KOBELCO

Solving social issues and creating economic value through business activities



Toward KOBELCO that stably achieves ROIC of 8% or more and grows sustainably

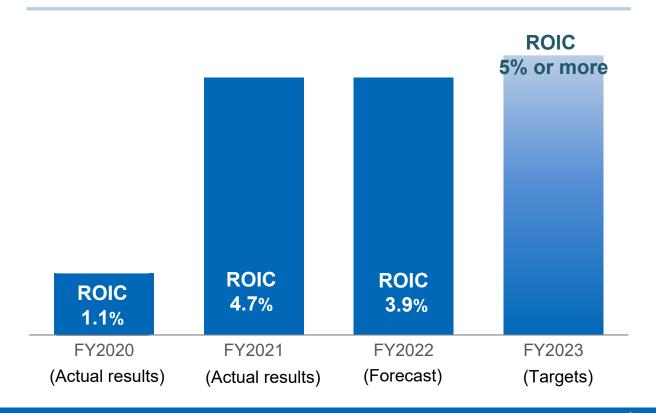
- FY2021 actual results: ROIC 4.7%, consolidated ordinary income 93.2 billion yen (excluding inventory valuation: 42.2 billion yen)
- FY2022 forecast: ROIC 3.9%, consolidated ordinary income 80 billion yen (excluding inventory valuation: 76.0 billion yen)

*See the announcement of May 11,2022

KOBEL

https://www.kobelco.co.jp/english/ir/library/investor_meeting/2021/index.html

Interim targets: ROIC 5% or more Establish a stable earnings base



Financial situation

Basic policy of financial strategy

By carefully selecting new capital spending, investments and loans, keep investment cash flow within the scope of operating cash flow, targeting a D/E ratio of 0.7 or below by the end of FY2023.

Current financial situation Owing to an upturn in business results and a decline in capital investment payments, the Company achieved a D/E ratio of 0.7 two years ahead of schedule. We will continue financial management aimed at strengthening our financial structure and lowering cost of capital.

Cumulative cash flow plan as of May 2021 (excluding project financing) (billions of yen)



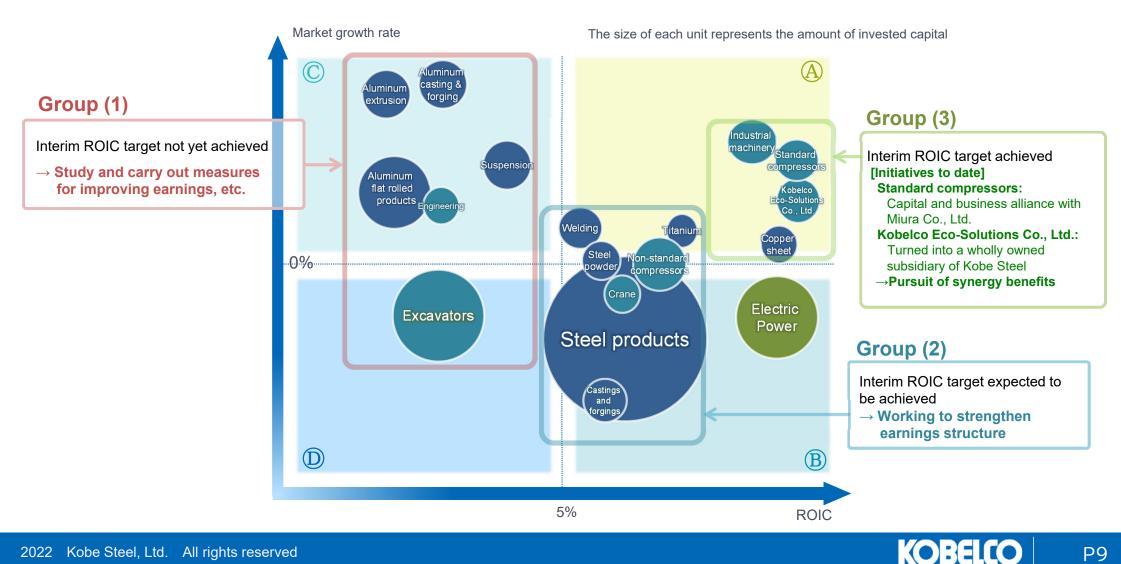
Rate of progress in cash flow plan as of May 2022 (excluding project financing) (billions of yen)



Establishing a stable earnings base

Business portfolio (Assumption in FY2023)

Details are under discussion to make a concrete plan for the restructuring of the business portfolio. We will promote activities based on the category of groups (1), (2), and (3).



Five key measures toward establishing a stable earnings base

 Strengthening the earnings base of the steel business Margin improvement achieved in FY2021 to contribute to FY2022 full-year performance 	2. Stabilizing earnings in the machinery business and responding to growing markets	 3. Restructuring unprofitable businesses Titanium Returned to profitability in FY2021 	
Product mix is being improved as planned	Today's presentation Castings and forgings, crane Expected to return profitability in FY2		
		Issue: Raising sales prices according to rising costs of raw materials	
Stratagia invostment in			
4 Strategic investment in the materials businesses leading to earnings contribution	5 Smooth startup/stable operation of new electric power projects		
Aluminum flat rolled products Working to improve prices, including the introduction of formulas	February 2022 Kobe Power Plant No. 3 Unit started up on schedule and is in stable operation.		
Aluminum suspensions/extrusions Working to raise sales prices according to rising costs of auxiliary raw materials, etc.	FY2022 2H Kobe Power Plant No. 4 Unit is scheduled to start operation.		

Stabilizing earnings in the machinery business and responding to growing markets

Machinery

Engineering

Enhance the environmental menu

Standard compressors: Capital and business alliance with Miura Co., Ltd., enables us to provide customers with a system that comprehensively solve issues for energy savings and CO₂ reduction

→ Capital and business alliance started from January 5, 2022

Maximizing earnings with environmental contribution menu

- (1) Expanding MIDREX[®] business
- (2) Demonstrating the collective strengths of the Group through collaboration with the steel business, the electric power business, and Kobelco Eco-Solutions
- \rightarrow CO₂ reduction in the ironmaking process is described on p. 16 and later pages

Construction machinery

Transformation to a stable earnings structure

- (1) Departure from dependence on the Chinese market
- (2) Business model transformation
- → Details are explained in detail on later pages

Energy conversion Responding to growing markets

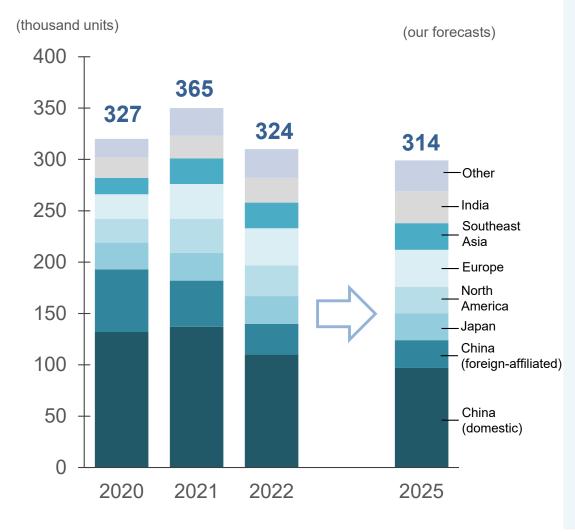
Working toward carbon neutrality, including the use of hydrogen

 \rightarrow Status of initiatives is described on p. 31 and later pages



Excavator Business: Business climate and medium- to long-term goals

[Business climate] Demand for heavy-duty excavators



Medium- to long-term goals

Departure from dependence on the Chinese market

Turning profits from a new value creation business through provision of solutions for innovations such as workstyle reforms in the construction industry, etc.

Commercialization of peripheral businesses* through provision of know-how on the installation of new systems, etc.

*Sale of BIM software, scrapped automobile recycling-related business overseas, etc.

Transformation to a stable earnings structure

Stably achieve a ROIC of 5% or more at an early stage and aim for a higher level

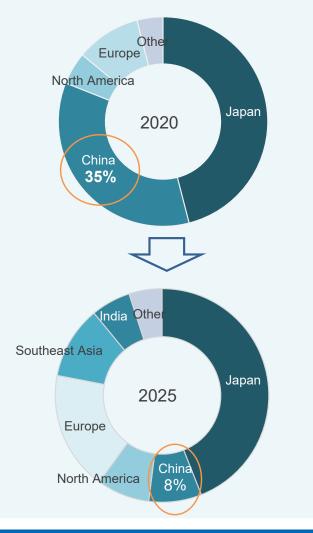


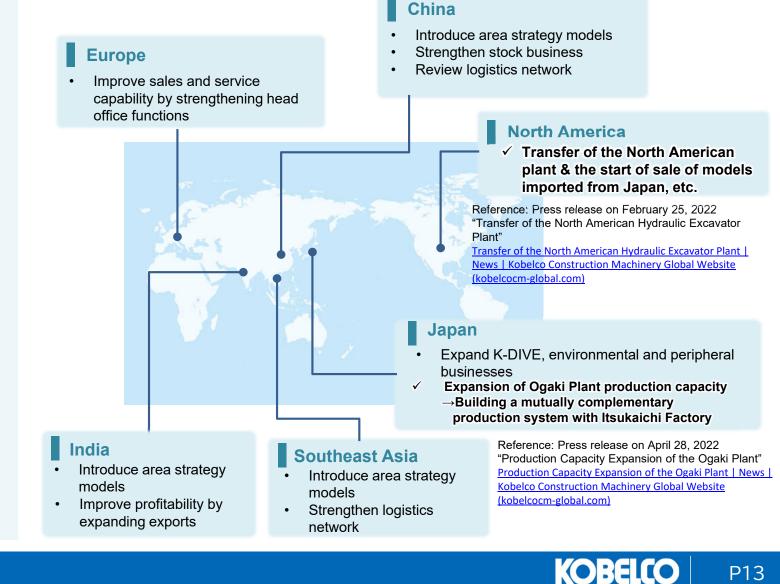
Establishing a stable earnings base

Area strategy for Excavator Business

Area strategy and share of national and regional earnings ($2020 \rightarrow 2025$)

Change in earnings structure



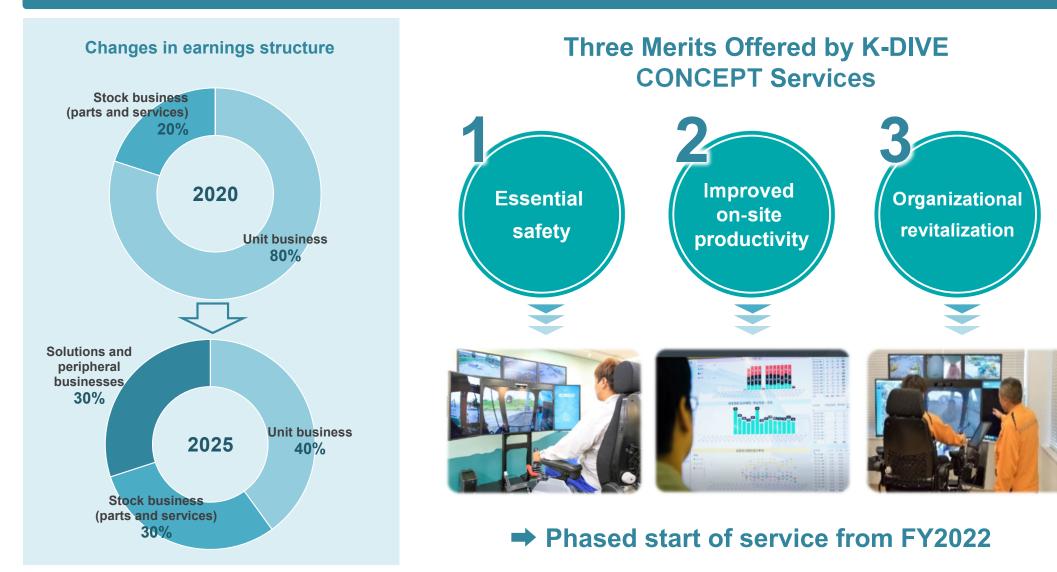


P13

Establishing a stable earnings base

Changes in the business model of excavator business

Turning profits from solution businesses and peripheral businesses





Introduction
 Establishing a stable earnings base
 The challenge of carbon neutrality



CO₂ reduction in the blast furnace ironmaking process



2022 Kobe Steel, Ltd. All rights reserved

Targets and Vision

The targets and vision announced in the Medium-Term Management Plan (FY2021-2023) are being pursued as planned.

	FY2030 targets	FY2050 vision
Reduction of CO₂ emissions in production processes	30 to 40% (from 2013 levels) (*1)	Take on the challenge of achieving carbon neutrality
Contribution to reduction of CO₂ emissions through technologies, products, and services (*2)	61,000,000t (of which MIDREX [®] contribution is 45,000,000t or more (*3))	100 Mt or more
(*1) Most of the reduction targets are associated with in amount basis, and the increased use of original so		announced in September 2020 (with the change from BAU to the

(*3) Reviewed calculation formula announced in September 2020

Excerpt from the KOBELCO GROUP Medium-Term Management Plan (FY2021-2023)



The challenge of carbon neutrality

Current status of initiatives to achieve carbon neutrality (CN) in the ironmaking process

- Steel companies around the world have set forth their CO₂ reduction targets and roadmaps, with concrete plans clearly presented.
- While there are no major changes in market forecasts, issues in the transition period have become evident as the discussion progresses concerning the details of the plans.

<Our recognition of changes in the business climate in the past year>

Direct reduction ironmaking

- A growing number of steel companies have announced plans to introduce electric arc furnaces as a CO₂ reduction measure.
- → Demand for direct reduced iron (DRI) is further growing with the need of securing sources of high-quality iron.

Use of hydrogen

- An increasing number of steel companies have started considering the introduction of hydrogen, notably in Europe.
- → Concrete measures are sought to deal with the transition period toward 100% hydrogen direct reduction.

Blast furnace

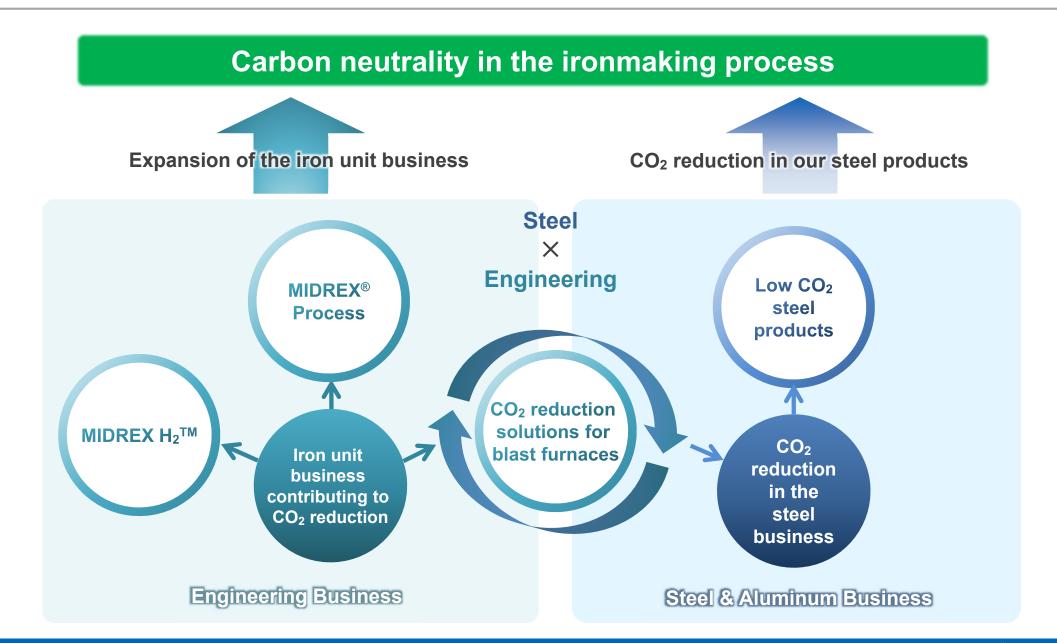
- Concrete initiatives are being called for to achieve the 2030 CO₂ reduction targets.
- → Technology for reducing CO₂ in the blast furnace attracts increasing attention.

Use of hydrogen

- In Japan, studies are promoted toward practical implementation of COURSE50 and Super COURSE50.
- → Hydrogen use has been promoted as a project supported by the Green Innovation Fund.



Our initiatives toward carbon neutrality in the ironmaking process



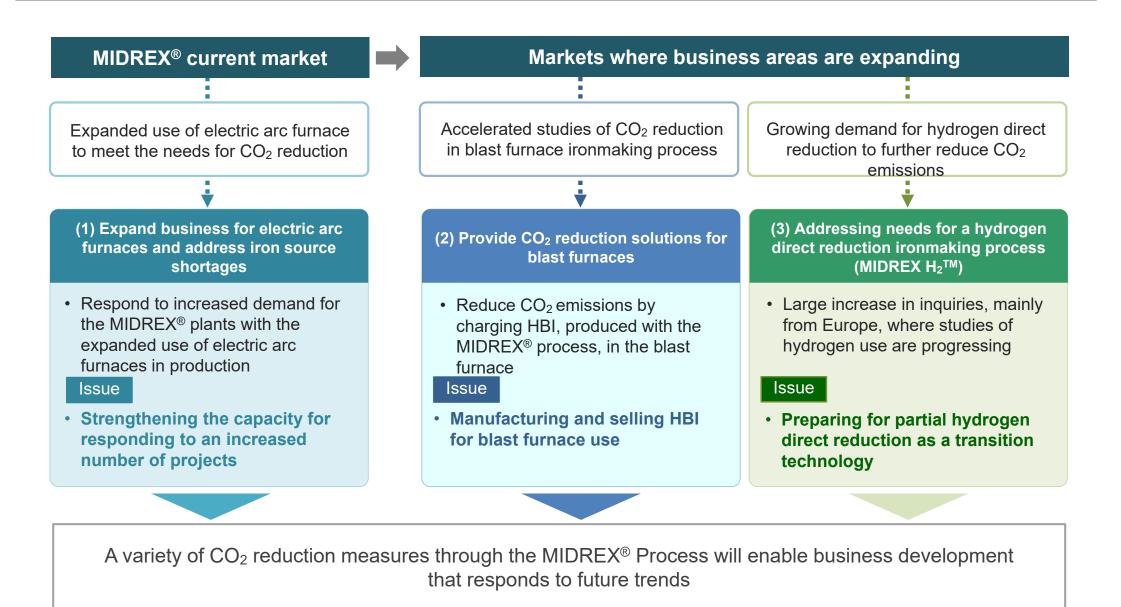


Developing business with the MIDREX[®] Process



2022 Kobe Steel, Ltd. All rights reserved

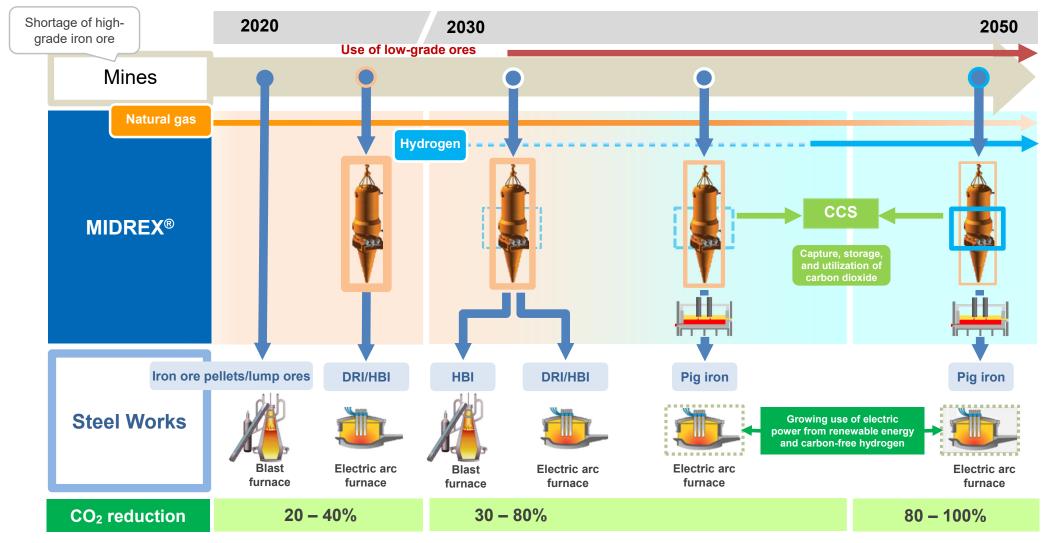
Expansion of the MIDREX[®] business (business menu responding to changes in trends)





Expansion of the MIDREX[®] business (flow of business development)

Toward carbon neutrality, we are ready to provide CO₂ reduction solutions at any stage from short to medium and long term.

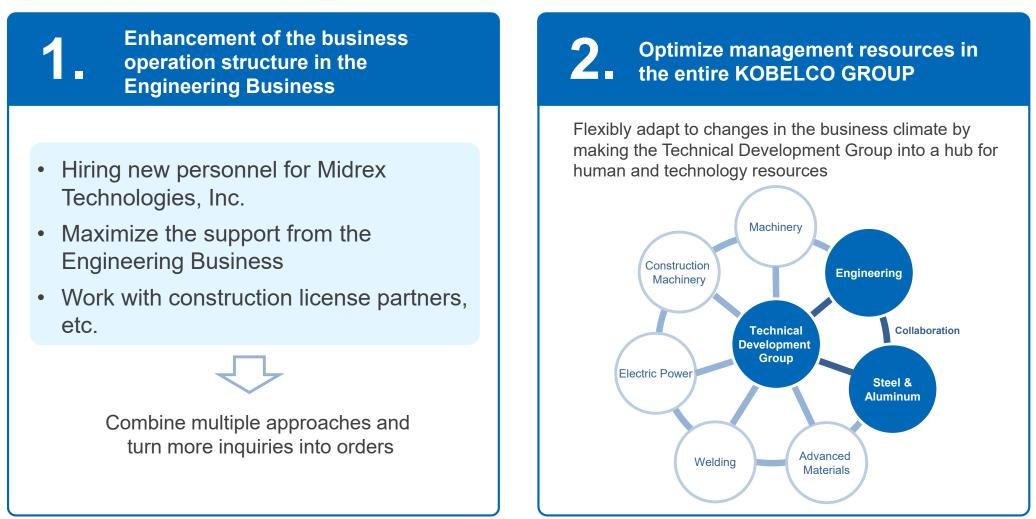


*1 CO2 reduction amounts can change depending on the specific environment, such as equipment and raw materials used. *2 DRI: Direct Reduced Iron *3 HBI: Hot Briquetted Iron



Approach to business development of the MIDREX[®] Process

We are working to promote the business development of the MIDREX[®] Process by enhancing the business operation structure of the Engineering Business and optimizing management resources of the entire KOBELCO Group with the Technical Development Group as a hub.





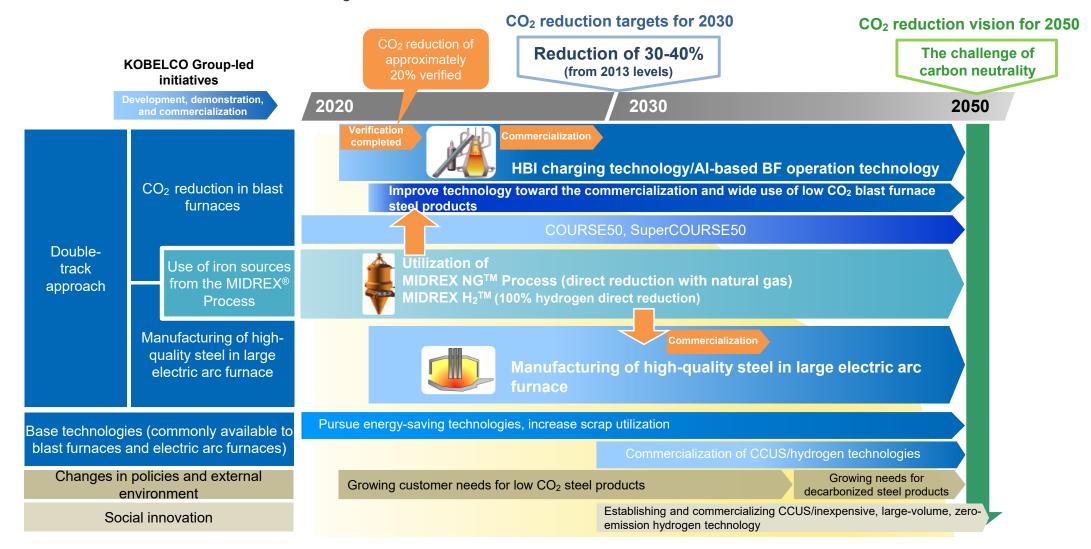
Initiatives for CO₂ reduction in the Steel Business



2022 Kobe Steel, Ltd. All rights reserved

Ironmaking Process: Roadmap toward Carbon Neutrality

The roadmap, announced in the KOBELCO Group Medium-Term Management Plan (FY2021-2023), has been further elaborated. We will take a double-track approach of reducing CO₂ in existing blast furnaces and manufacturing high-quality steel in large electric arc furnaces, making use of HBI and other iron sources from the MIDREX[®] Process.

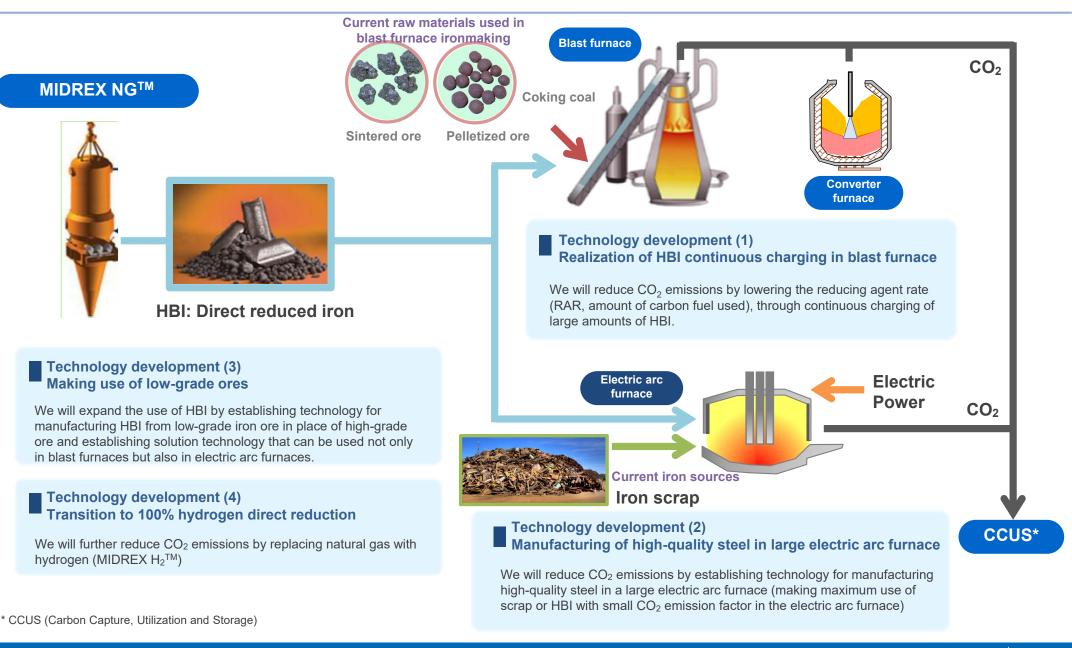


KOBELCO

P25



Technology development toward carbon-neutral ironmaking processes

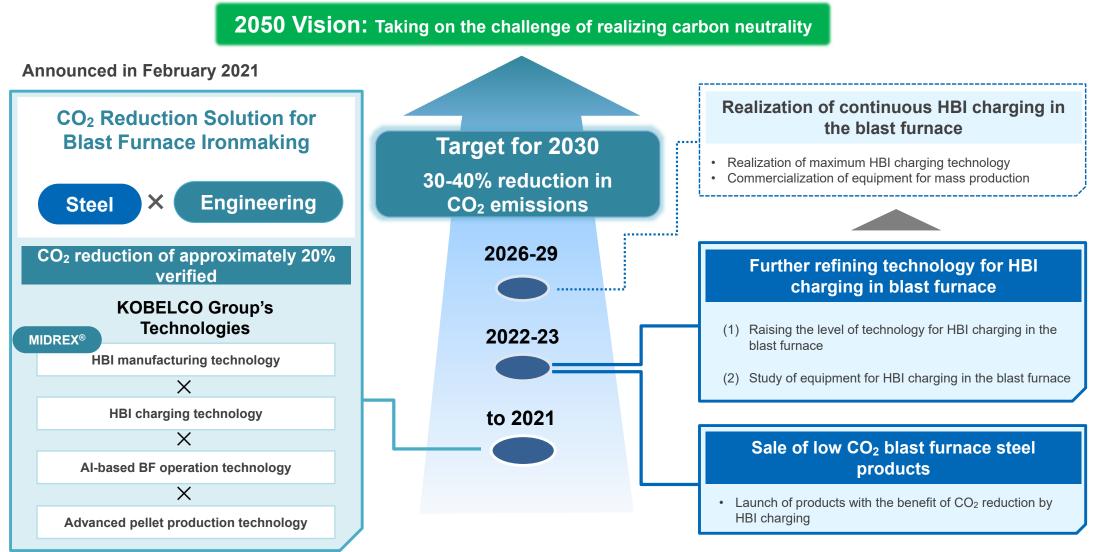


KOBELCO

P26

Our CO₂ reduction solutions for blast furnace ironmaking

The KOBELCO Group will promote early reduction of CO_2 emissions by further developing its distinctive technologies for CO_2 reduction solutions.





Launch of steel products with the benefits of CO₂ reduction in blast furnaces

Kobe Steel's low CO₂ blast furnace steel



Kobe Steel plans to launch Kobenable Steel in two product categories: Kobenable Premier with 100% CO₂ reduction and Kobenable Half with 50% reduction.

*"Kobenable," "Kobenable Premier," and "Kobenable Half" have been filed for registration as trademarks of Kobe Steel, Ltd.

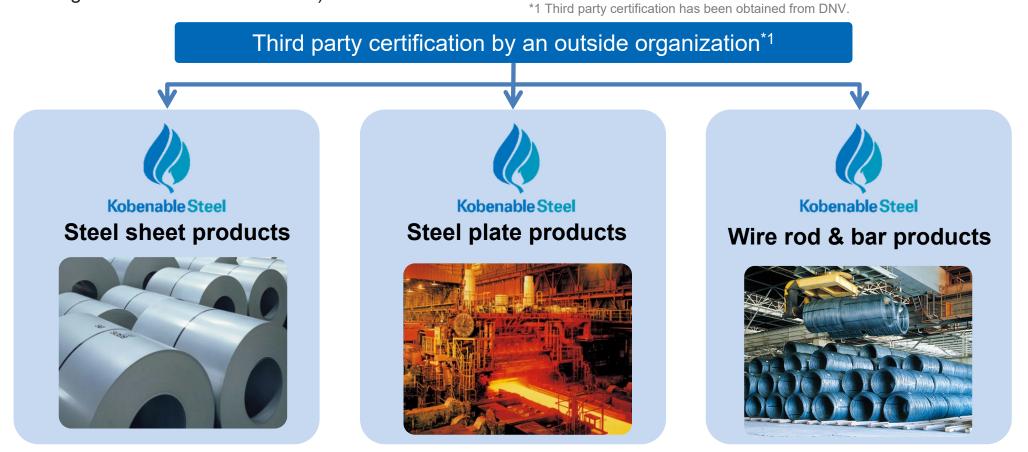




The challenge of carbon neutrality

Low CO₂ blast furnace steel products

 Kobenable Steel is available for all types of steel products (steel sheet, steel plate, wire rod & bar products) manufactured at Kakogawa Works and the Kobe Wire Rod & Bar Plant (CO₂ reduction effects are allocated using the mass balance method).



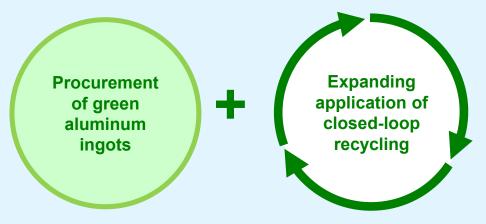
Kobe Steel plans to start selling in fiscal 2022

Application of these steel materials to Group companies' products is under study (e.g., welding materials)

Status of carbon neutrality initiatives in other business segments

Aluminum Business

- The biggest issue for CO₂ emissions reduction in aluminum products is procuring low CO₂ aluminum ingots, used as raw material.
- → We will work on the procurement of raw materials, with an awareness of the importance of monitoring the carbon footprint as recycling expands.



- In May 2022, we joined the Aluminium Stewardship Initiative (ASI), a global aluminum industry group.
- → As an ASI member, we will seek to contribute to the environment and society through our business while achieving sustainable growth.

Electric Power Business

Initiatives are being carried out based on the "Electric Power Business: Roadmap toward carbon neutrality" in the Medium-Term Management Plan announced last year.

Initiatives (toward technology development)

1. Ammonia co-firing and mono-firing

In order to promote initiatives toward practical use, such as the use of technologies under development in NEDO-funded projects, we are conducting detailed internal studies while monitoring national policies and technology development trends centered on NEDO.

2. Biomass use

In a joint project with Kobelco Eco-Solutions, we are promoting a project to use biomass fuel from sewage sludge for co-firing and to utilize extraction steam^{*1}.

*1 Hydrogen production with a water electrolysis hydrogen generator (High-purity Hydrogen and Oxygen Generator: HHOG™)



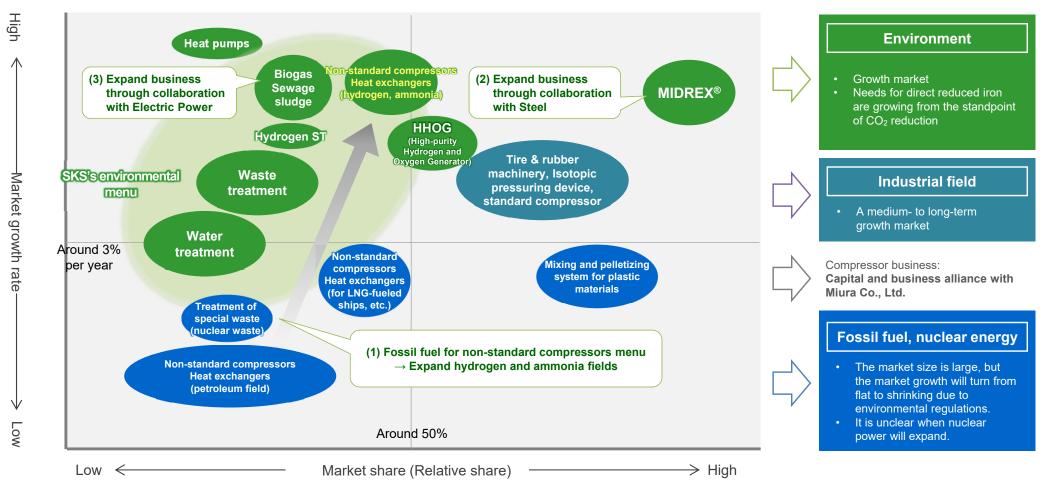
Responding to Energy Conversion & Growing Markets



2022 Kobe Steel, Ltd. All rights reserved

Developing the Machinery and Engineering businesses

we will demonstrate the comprehensive strength and create value unique to the Group by mutually utilizing the management resources of the **Machinery** and **Engineering** businesses and promoting collaboration among the **Steel** and **Electric power** business, and **Kobelco Eco-Solutions**



KOBELLO

P32

*SKS: Kobelco Eco-Solutions Co., Ltd.



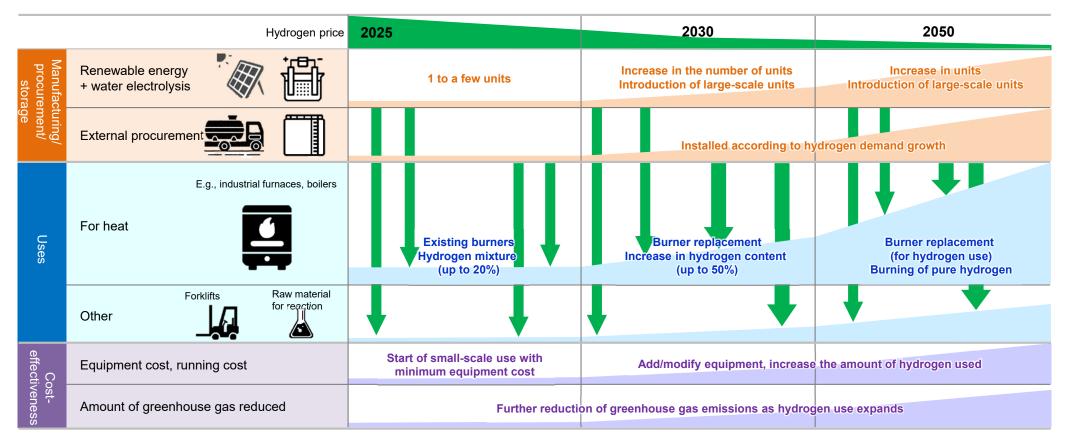
The challenge of carbon neutrality

Medium- to long-term perspectives for hydrogen use in hydrogen-related business

Medium- to long-term plans geared to staged expansion of hydrogen use

 The plan envisioned here is to build a hydrogen society, allowing our Group and other industry players to design medium- to long-term decarbonization plans for achieving carbon neutrality in stages, while continuing existing businesses.

Medium- to long-term perspectives for expanded use of hydrogen



Source of illustration: METI material

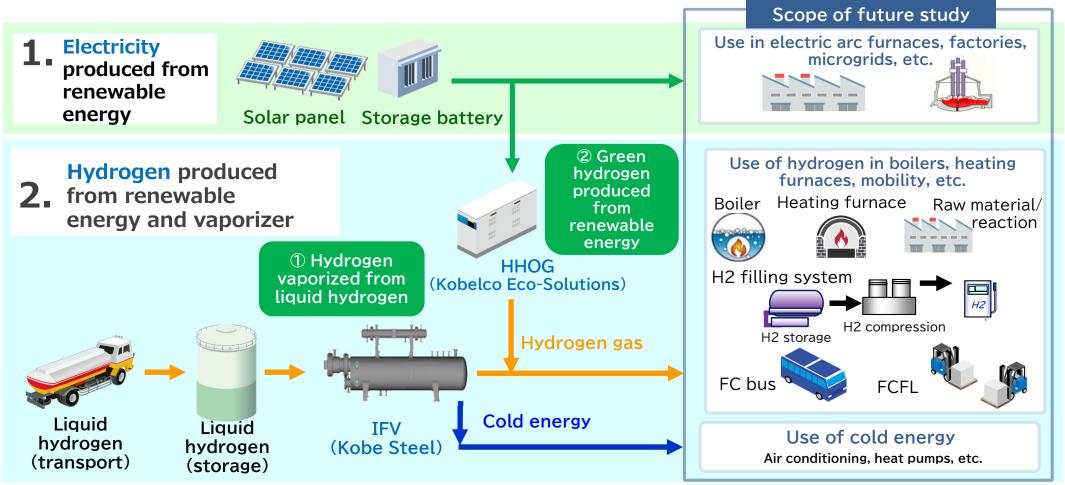




Initiatives toward realization of CN (hybrid-type hydrogen gas supply system)

Demonstration test of hybrid-type hydrogen gas supply system to be conducted at Takasago Works*1

• We plan to build a **hybrid-type hydrogen gas supply system** that combines the use of liquid hydrogen with water electrolysis hydrogen generation using renewable energy. We aim to contribute to diverse applications for the future hydrogen society.



*1 The demonstration of the system is partly supported by the New Energy and Industrial Technology Development Organization (NEDO) under the Development of Technologies for Realizing a Hydrogen Society: a. Study on hydrogen utilization model for decarbonization of factories that mainly consume energy as heat; and

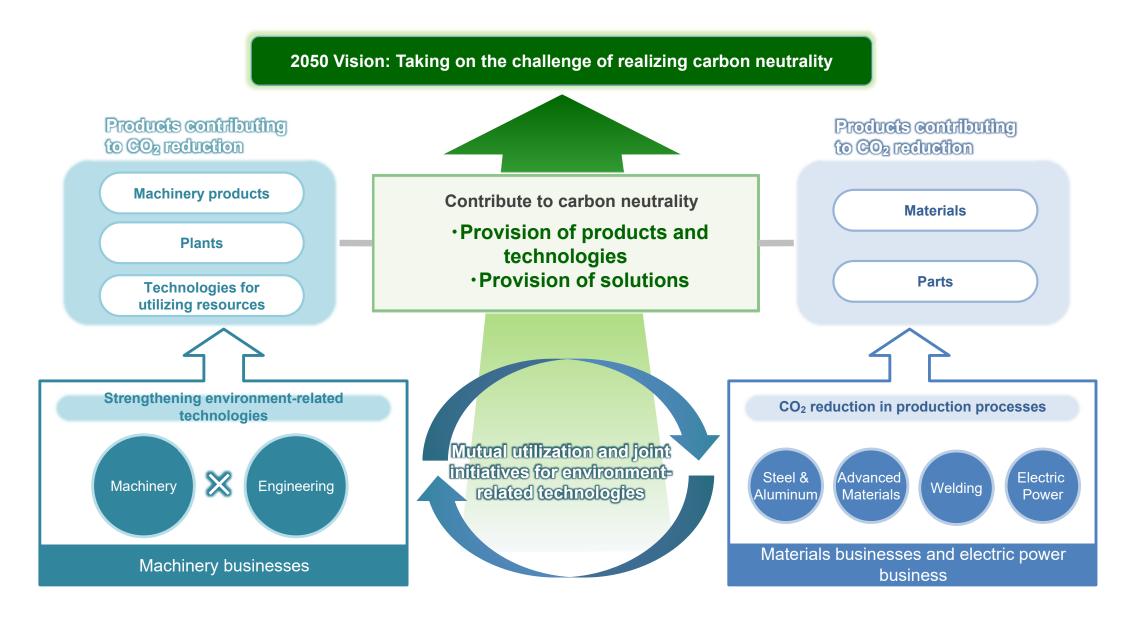
b. Development of an intermediate liquid hydrogen vaporizer that enables the use of liquid hydrogen cold energy

KOBELCO Group initiatives to achieve carbon neutrality



2022 Kobe Steel, Ltd. All rights reserved

KOBELCO Group initiatives to achieve carbon neutrality





Leveraging synergies across our business segments to achieve carbon neutrality

We will continue to take on the challenge of achieving carbon neutrality through enhancing synergies across business segments.

	Steel & Aluminum	Advanced Materials	Welding	Machinery	Construction machinery	Engineering	Electric Power
	50			1 AM			
CO ₂ reduction in the ironmaking process	*			0		*	
Use of hydrogen	0	0	0	*	0	*	
Use of biomass generated from cities (sewage sludge, food residues, etc.)						*	*
Lightweighting and electrification of automotive vehicles	*	*	*	0			

ightarrow Plays a central role in initiatives \bigcirc Contributes in part to initiatives



The KOBELCO Group promotes sustainability management in a framework based on the Group corporate philosophy.

We will continue to proceed with sustainability management toward the realization of a sustainable society, aimed at continuing to be indispensable to our stakeholders, while pursuing sustainable growth and enhanced corporate value.



Group Corporate Philosophy

	The society and future aimed for through realization of KOBELCO's Mission				
KOBELCO's View of the Future	We envision a world in which people, now and in the future, can fulfill their hopes and dreams while enjoying safe, secure, and prosperous lives.				
	The KOBELCO Group awareness of its significance to society and mission to be fulfilled				
KOBELCO's Mission	Our mission is to provide solutions to the needs of society, by making the best use of the talents of our employees and our technologies.				
Coro Voluco	The commitment of the KOBELCO GROUP to society and values common to the Group				
Core Values of KOBELCO	1. Providing trusted products and services				
	Drawing on the individual strengths of each employee while valuing Group harmony				
	3. Creating new value through continuous innovation				
	The Quality Charter as well as the Standards of Conduct to be observed by all employees to meet "KOBELCO's Three Promises"				
Six Pledges of	1. Uphold the highest sense of 3. Establish a favorable working environment				
	ethics and professionalism 4. Live in harmony with local communities				
KOBELCO	2. Contribute to society by 5. Contribute to a sustainable environment				
NUDELCU	providing superior products Quality and services 6. Respect each stakeholder				



Cautionary Statement

- Certain statements in this presentation contain forward-looking statements concerning forecasts, assertions, prospects, intentions and strategies. The decisions and assumptions leading to these statements were based on information currently available to Kobe Steel. Due to possible changes in decisions and assumptions, future business operation, and internal and external conditions, actual results may differ materially from the projected forward-looking statements. Kobe Steel is not obligated to revise the forward-looking contents of this presentation.
- Uncertain and variable factors include, but are not limited to:
 - Changes in economic outlook, demand and market conditions
 - Political situation and trade and other regulations
 - Changes in currency exchange rates
 - Availability and market conditions of raw materials
 - Products and services of competing companies, pricing policy, alliances, and business development including M&As
 - Strategy changes of alliance partners



