



FY2023 Management Briefing

June 2, 2023
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Tokuyama Corporation



Medium-Term Management Plan 2025

- ► Medium-Term Management Plan 2025
- ► Final Year Targets

Medium-Term Management Plan 2025

FY21 - 25



1

Transform business portfolio

Increase growth businesses' share of consolidated net sales to over 50%

2

Contribute to mitigation of global warming

Expedite development/commercialization of next-gen energy technologies; Reduce greenhouse gas emissions 30% from FY19 by FY30

3

Practice socially responsible management

Step up high-priority CSR initiatives to lay groundwork for further growth and realize our vision

Medium-Term Management Plan 2025 ~ Changes Since the Plan Was Formulated

TOKUYAMA 2025

Changes and Actions in FY2021~FY2022

- Major changes have occurred in the business environment, including trade friction between the U.S. and China and
 erratic fluctuations in resource prices stemming from economic sanctions on Russia due to its invasion of Ukraine, as
 well as large fluctuations in exchange rates caused by interest rate hikes in the U.S. and Europe as monetary easing in
 Japan continues.
- Efforts to reduce CO₂ emissions to achieve carbon neutrality have been accelerated.
- There is also a pressing need for reforms at manufacturing sites in preparation for a reduced workforce due to progression of the declining birthrate and aging population.

Changes of External environment

- Soaring price of raw materials and fuel
 - Coal and naphtha, etc.
- Global inflationary trend
- Advancement in adopting DX (digital transformation)
- Accelerated demand for carbon neutrality
- Demand for climate change response

Changes of Internal environment

- Rise in manufacturing cost due to soaring price of raw materials and fuel
- Increase in expenses (e.g., logistics costs and others)
- Awareness of necessity for adoption of DX
- Promoting coal phase-out initiatives
- Accelerating initiatives based on the perspective of sustainability
- Enhance the CSR structure including response to TCFD

Actions for Changes

- Revise sales prices
- Accelerate business portfolio transformation
- Promote cost reduction and cost shifting
- ▶ Build a TDX*¹ structure
- Enhance the CSR structure including response to TCFD

*1 TDX: Tokuyama DX

Final Year Targets



KPI	FY22 (Result)	FY25 (Target)	Factors in Achieving Targets		
Net Sales	¥351.7bn	¥320.0bn (Current Outlook) ¥400.0bn	Focus on portfolio transformation Reflect cost inflation		
Operating Profit	¥14.3bn	¥14.3bn ¥45.0bn Expand operating profit approaching Revise by changing depreciation			
Growth Business Net Sales Growth Rate	20.1%	CAGR ≥10%	Strengthen R&D, accelerate international expansion		
ROE	4.1%	≥ 11%	Balance shareholder's equity efficiency and financial base Revise by changing depreciation method		

(Note) Assumptions (FY20 at the time of plan formulation): exchange rate (¥/US\$) 105, domestic naphtha price (¥/kl) 32,500 FY22 results: exchange rate (¥/US\$) 135, domestic naphtha price (¥/kl) 76,600



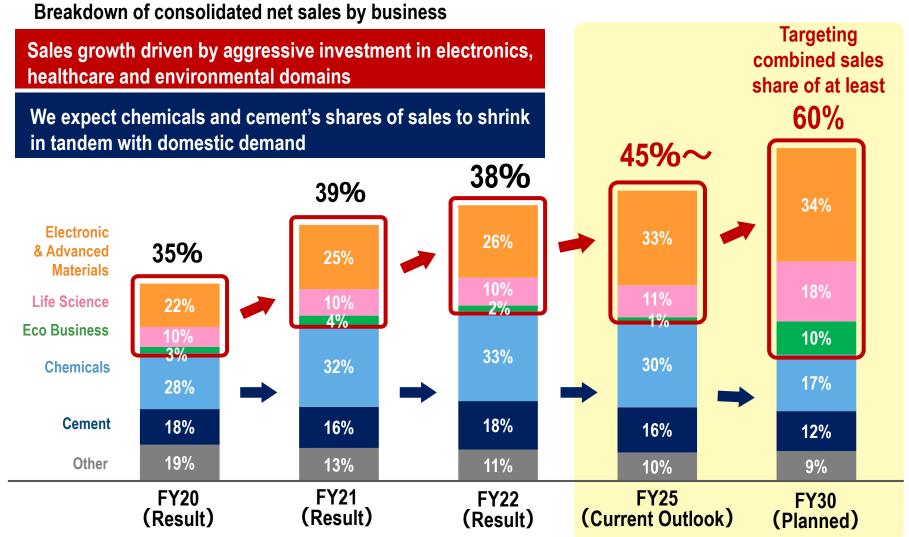
1 Transform business portfolio

- ► Target Business Portfolio
- ► Strategy by Business
- ► Capex Plan Breakdown
- ► Cash Flow Generation and Allocation
- ► Cash Flow Trend and Plan

Target Business Portfolio



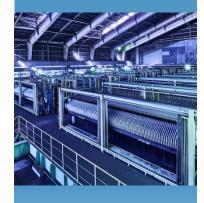
Position a consolidated sales ratio of 50% or more for growth businesses in FY25 as a milestone while aiming for even higher levels



(Note) The sales ratio in each segment was calculated using monetary amounts that include sales between segments.







Business Goal

Ensure stable earnings in the existing business

Priority Measures

- Strengthening the Chloro-alkali and PVC chain to maximize profits
- ▶ Reduction of CO₂ emissions and waste through the development and introduction of world-class energy-efficient electrolyzers and manufacturing process improvements
- Improve manufacturing processes and supply chains through promoting DX

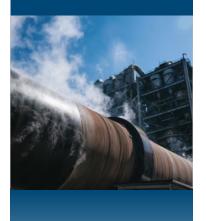
Progress to Date

- Implementation of sales price corrections, Building a collaborative system by making Shindai-ichi Vinyl Corporation a wholly owned subsidiary
- Launch of a project to improve the soda ash manufacturing process to reduce CO₂ emissions
- Started activities of SCM visualization project by DX

- **▶** Demonstrate a competitive top-class electrolyzers
- ▶ Reduction of CO₂ emissions and waste by improving the soda ash manufacturing process
- Improving productivity through systematization of production planning using Al



Cement



Business Goal

Become the domestic industry leader in energy efficiency

Priority Measures

- ► Introduce energy-saving equipment to reduce CO₂ emissions
- ► Reduce the amount of coal usage by accepting more fuel-based waste materials such as waste plastic

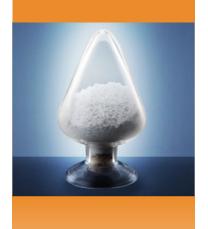
Progress to Date

- Improve profitability by implementing price revisions and using low-grade coal
- ► Reducing coal consumption by expanding the use of waste plastics and tires
- Optimized management resources and streamlined management by merging
 4 sales subsidiaries

- ► Consider suspending operations of a cement kiln
- Implement initiatives to expand acceptance of waste plastic
- ▶ Promotion of energy conservation by introducing clinker cooler equipment



Electronic & Advanced **Materials**



Business Goal

Push forward with globalization, and capture top share in the highpurity and thermal management materials fields supporting the miniaturization and stacking of semiconductors

Priority Measures

- Pursue aggressive expansion in overseas markets
- Develop new applications, expand product portfolio
- Produce high-quality products, pursue analysis technology

Progress to Date

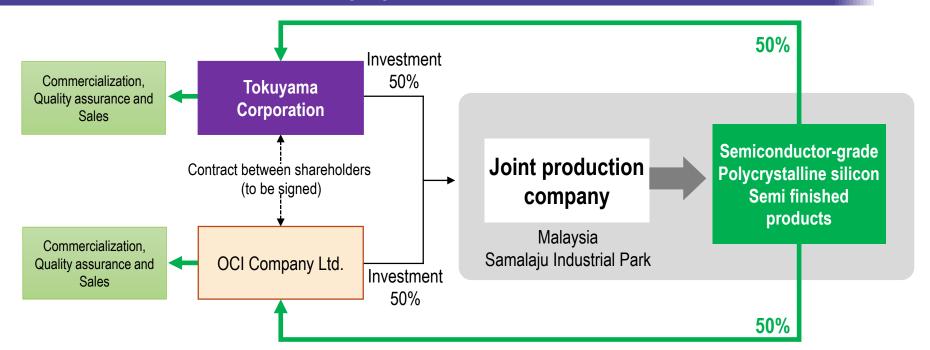
- Formosa Tokuyama Advanced Chemicals Co., Ltd. (FTAC; joint venture in Taiwan) began shipping high-purity IPA
- ► STAC Co., Ltd. (joint venture in Korea) began high-purity IPA plant construction
- Established a facility base to explore mass production of thermal management materials
- Strengthened quality control for semiconductor-related products

- Increase profits by ensuring full operation FTAC, and launch STAC
- ► Enhance lineup of thermal management materials
- Further bolster quality control for semiconductor-related products

Topics



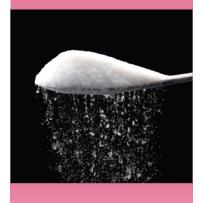
Signing a Memorandum of Understanding Pertaining to Collaboration in the Semiconductor-Grade Polycrystalline Silicon Business



- This endeavor plans to jointly produce polycrystalline silicon for semiconductors with OCI (Establish a joint production company, Manufacturing capacity: Approx. 10,000 tons/year)
- Polycrystalline silicon commercialization quality assurance, and sales will be independently conducted by both companies
- The joint production company is expected to use hydro-electric power
- The joint production company will be a consolidated subsidiary of OCI and a company under the equity method of Tokuyama Corporation. All rights reserved.



Life Science



Business Goal

Use unique technology to capture top niche share in areas where differentiation is possible (vision, dental, diagnostics)

Priority Measures

- Strengthen the marketing system and accelerate expansion of production capability to further boost market share of dental materials outside Japan
- Develop new products and strengthen sales activities to further expand the photochromic market outside Japan
- Strengthen the medical diagnostic systems business

Progress to Date

- Expanded share in the U.S. and Europe by introducing new dental materials products(OMNICHROMA)
- Augmented production capability for dental materials
- Augmented production capability for plastic lens materials

- Further augment production capability for dental materials and make into a smart factory
- ► Enhance lineup of plastic lens materials and APIs and intermediates
- Expand sales and profits of medical diagnostic products, and strengthen development of diagnostic reagents







Business Goal

Establish as a new business pillar to carry the future

Priority Measures

- Respond to expanded demand for water treatment membranes due to strengthened environmental regulations
- Expand resource recycling business in waste gypsum board, photovoltaic modules and others
- Commercialize developed next-generation energy technologies

Progress to Date

- ► Constructed new plant in Muroran, Hokkaido Plant, the 3rd facility for waste gypsum board recycling
- Decided to transfer some shares in EXCEL SHANON CORPORATION
- ► Explored commercialization of recycling processing technologies for photovoltaic modules
- Introduction of demonstration equipment of alkaline water electrolyzers

- ► Develop and strengthen supply system for ion exchange membranes, and develop next-generation membranes
- Launch Muroran Plant for waste gypsum board recycling
- ► Establish mass production technologies and a business model for photovoltaic module recycling
- ► Establish as a competitive alkaline water electrolyzer business structure



								2025	
	FY2 (Re:	:022 sult)	FY2 (Fore		FY2025 (Target)		Recent business	Points	
(Billions of yen)	Net sales	Operating profit	Net sales	Operating profit	Net sales	Operating profit*	confidence		
Chemicals	116.2	6.8	128.0	12.5	85.0	14.5		China's economic recovery, Asian market trends	
Cement	58.5	(3.7)	69.0	6.0	56.0	5.0		Adjustment in production capability, effect of expanding acceptance amount o waste plastic	
Electronic & Advanced Materials	91.5	7.0	103.0	9.0	102.0	20.5	—	Trends in semiconductor market	
Life Science	37.5	7.3	40.0	7.5	46.0	8.0		Effect of augmenting dental materials production capability	
Eco Business	13.8	0.0	8.0	0.0	18.0	1.5		Boosting production efficiency, improving profitability	
Others	47.3	2.0	45.0	2.0	38.0	6.5	•	Profitability of selling electric power	
Total	365.1	19.6	393.0	37.0	345.0	56.0	_		
Adjustment and corporate-wide expenses	(13.3)	(5.3)	(13.0)	(7.0)	(25.0)	(11.0)			
Consolidated results	351.7	14.3	380.0	30.0	320.0	45.0		Revise by changing depreciation method	

(Note) The sales ratio in each segment was calculated using monetary amounts that include sales between segments.

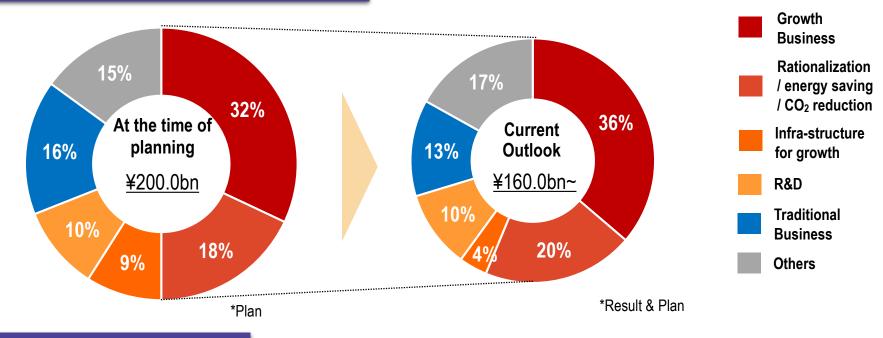
^{*}FY25 operating profit reflects the impact of changes in depreciation method.

Capex Plan Breakdown



Key words are priority investment in growth fields, reduction of CO₂ emissions, and energy saving

Capex Plan Breakdown (FY21-25)



Major Capex Results

- Construction of the factory of joint venture company in Taiwan for high-purity IPA
- Construction of the factory of joint venture company in Korea for high-purity IPA
- Production capacity expansion of dental materials

- Waste gypsum board recycling business Construction of a new plant in Muroran
- Establishment of the Center for Commercialization of Advanced Technology

Cash Flow Generation and Allocation





Capex

¥200.0bn

Strategic Investment

(M&A, new business development)

Max ¥30.0bn

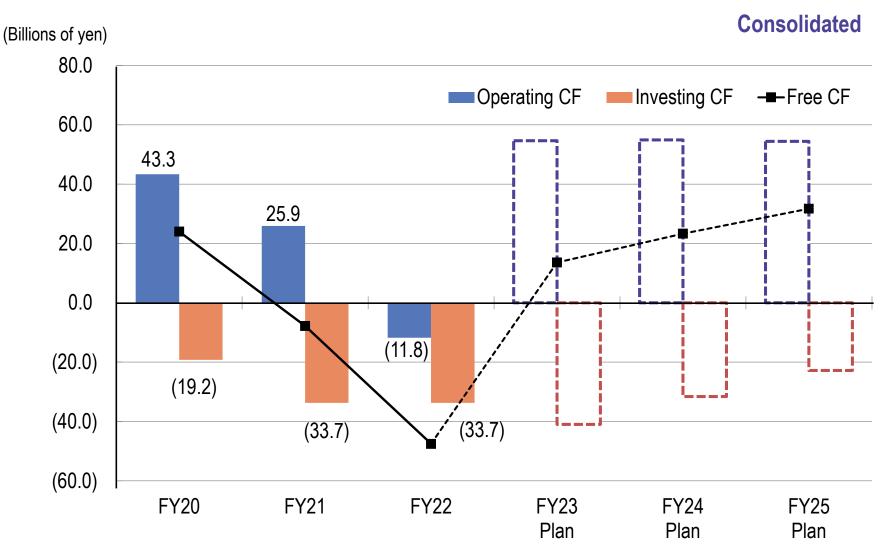
Shareholder Returns

Dividends 20-30% payout ratio

Consider acquisition of own shares

Cash Flow Trend and Plan







Contribute to mitigation of Global Warming

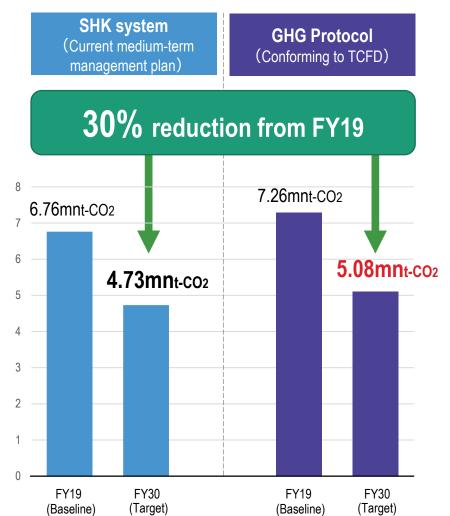
► Change in the Calculation Method for Greenhouse Gases (GHG Emissions)

Change in the Calculation Method for Greenhouse Gases (GHG Emissions)

The calculation method for CO₂ emissions was changed from calculations based on Japan's Act on Promotion of Global Warming Countermeasures (SHK system) to calculations based on the GHG Protocol (conforming to TCFD, etc.)

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GHG Emissions Reduction Target



3HG Emissions, mnt

Calculation Method	SHK system (Current medium-term management plan)	GHG Protocol (Conforming to TCFD)		
FY19 emissions	6.76mnt-CO2	7.26mn t-co2		
FY30 emissions	4.73mn _t -co ₂	5.08mn t-co ₂		
Reduction rate	30%	30%		
	30% Not included	30% Included		



Practice socially responsible management

► Progress in CSR Management

Progress in CSR Management ~Strengthening Implementation Structure



Newly established a committee that addresses sustainability issues in the CSR management implementation structure

Cross-departmental initiatives started for disclosing climate change responses and human rights measures

CSR Promotion Council

Risk Management and Compliance Committee From the viewpoint of risk management and compliance, established expert committees to handle cross-departmental efforts in areas of especially high expertise and importance

Financial Reporting Committee Fair Trade and Competition Committee Security Trade Committee Information Security Committee **Environment Committee** Safety Committee Product Safety and Quality Assurance Committee **Sustainability Committee NEW**

(Newly established in FY22)

Responded to issues related to sustainability such as "addressing climate change" and "business and human rights" that do not fit into existing categories of expert committees

For the People of Tomorrow



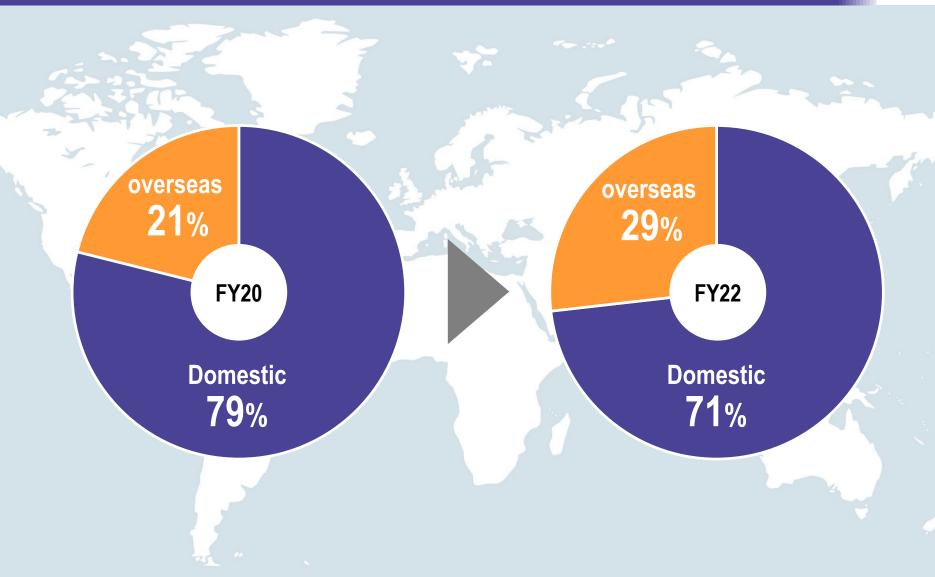


Supplementary Materials

Accelerated International Expansion



Aiming to increase overseas share of consolidated net sales to over 50% by FY30



R&D policy



Medium-Term Management Plan 2025

Make the transition to a company that creates value and provides solutions

- Focusing management resources on corporate R&D
 - ► Concentrate energy on medium- to long-term development themes centered on marketing
 - ► Attack areas where the company's business division development has not yet started
- 2 Strengthening business division R&D
 - ► Have a wider range of product variations which can meet customer requirements
 - ► Accelerate the pace of development

3 Strengthening open innovation

Initiatives until FY2022

Promoted the development of growth businesses by improving corporate development bases

Tsukuba Research Laboratory II		
Tokuyama Taiwan		
Tokuyama Research Laboratory Strengthening analytical skills		
Center for Commercialization of Advanced Technology		

Developed tailored to client needs in business division development

- Expanded heat management products and strengthening systems
- ► Pioneered new uses for silica products e.g., uses in leading-edge semiconductor materials, uses in cosmetics, etc.
- ► Water electrolyzers: verified commercialization and considered business structure
- ► Developed new medical products

Accelerated development speed through joint research with Taiwan's Industrial Technology Research Institute (ITRI), universities, national institutes. etc.



Electronics

High purification

Crystallization, deposition

Healthcare

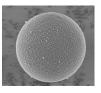
Nitride reduction

Unique **Technologies**

Sintering

Powder control

Molecular design



Electrode and membrane

Environment

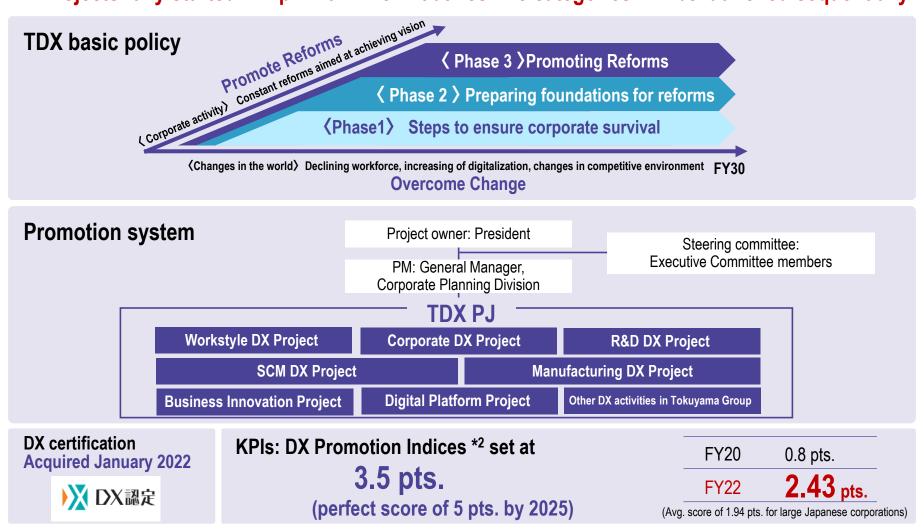
Sol-gel

Promoting Digital Transformation (DX)



Promote DX by utilizing data and digital technology

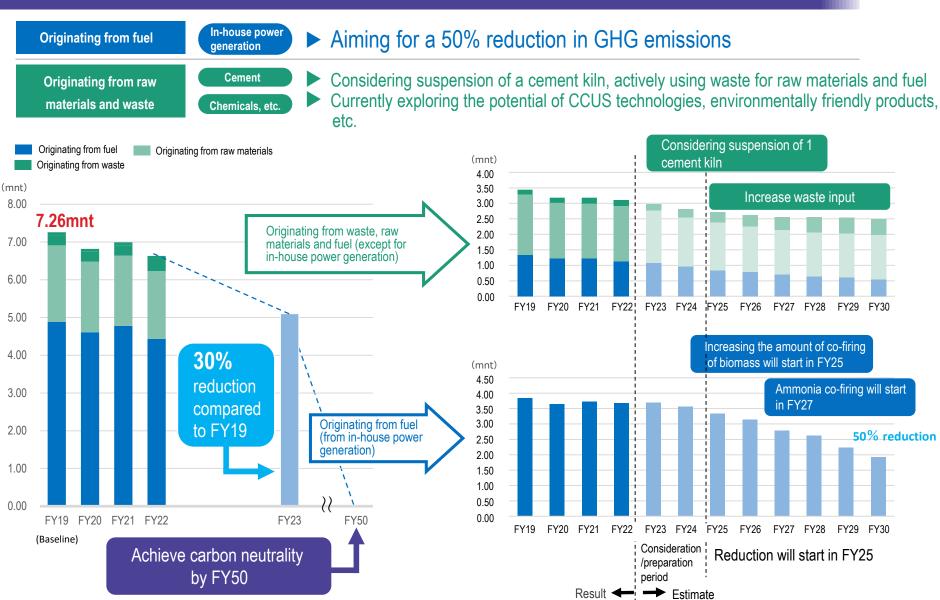
Created a TDX*1 basic policy and action plan, and developed a system TDX Projects fully started in April 2022. 25 initiatives in 8 categories will be launched sequentially



FY2030 GHG Emission Reduction Targets

2025

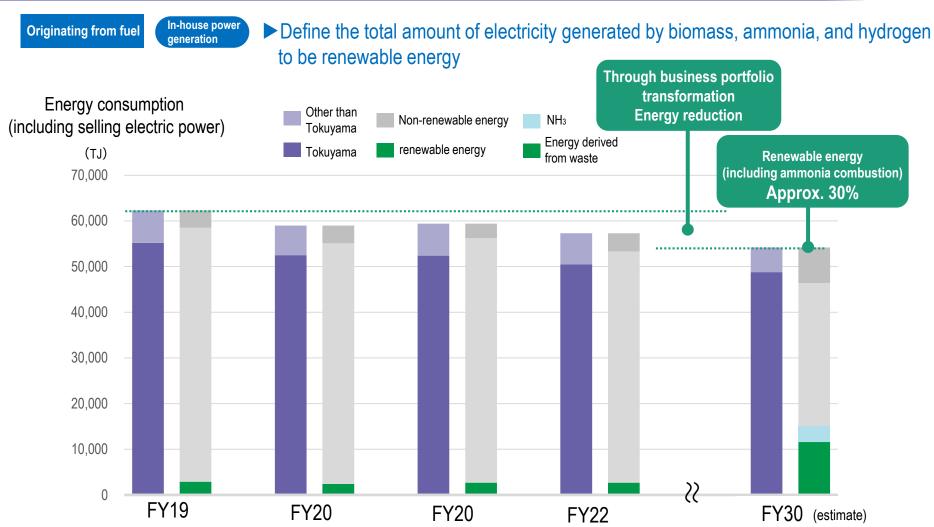
Reduce greenhouse gas emissions 30% from FY19 by FY30



Renewable Energy Introduction Targets for FY2030



Ratio of Renewable Energy Use by FY30 (including ammonia combustion) Approx. 30%

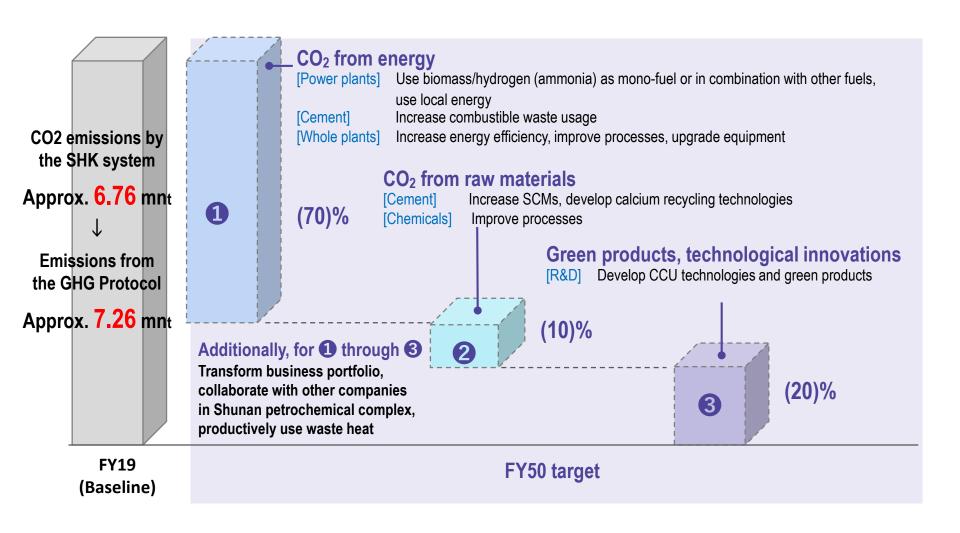


^{*}Energy from thermal recycling of heavy oil ash, sludge (organic, fuel, valuable combustibles), etc., that is effectively utilized in cement processing is not included in energy originating from waste.

GHG Emission Reduction Targets for FY2050

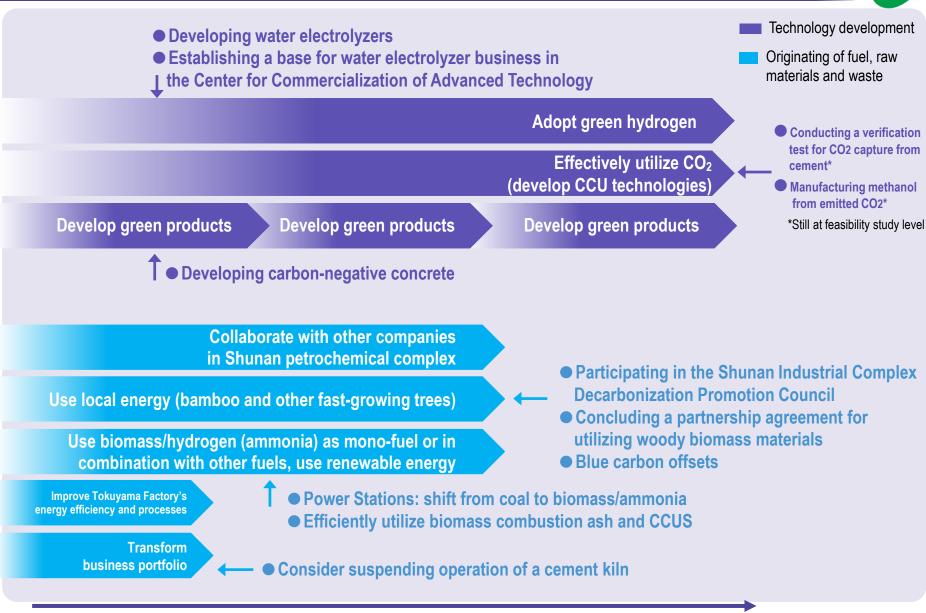


Aim to reduce energy-originated CO₂ emissions and achieve carbon neutrality by effectively utilizing CO₂ originating from raw materials, developing environmentally friendly products, etc.



Initiatives in FY23

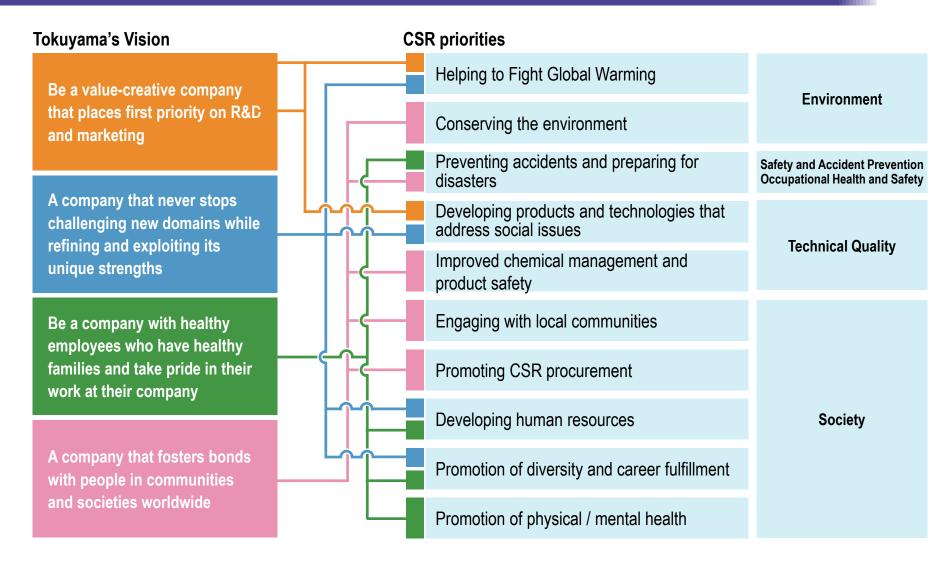




FY50

CSR Priorities

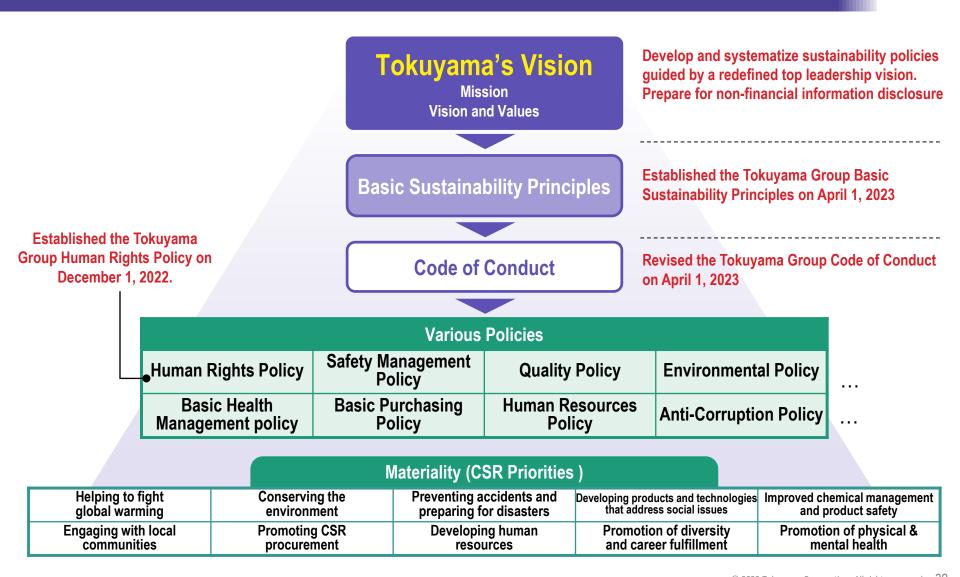
Committed to addressing CSR priorities (materiality) through concrete action plan aimed at realizing vision



Development and Systematize of Sustainability Policies



Develop and systematize our corporate approach and view on sustainability, which are at the foundation of CSR management implementation, in order to accelerate materiality initiatives



Promotion of Physical and Mental Health



Chosen for the 2023 Health & Productivity Stock Selection for the first time This is a major step forward for the "promotion of physical and mental health," which is one materiality





Japan's Ministry of Economy, Trade and Industry and the Tokyo Stock Exchange have jointly been selecting outstanding listed enterprises engaging in a health management program. Tokuyama's steady endeavors toward health management were recognized for the first time when it became one of the 49 companies in 31 industries chosen in the 2023 selection.



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