

Mitsubishi Chemical Group Investor Day 2023

February 24, 2023



What you will hear today



- We have achieved solid progress with our Forging the future strategy
- We have an executable plan to continue our transformation journey
- We will deliver 700 oku yen EBITDA growth through innovation focused on market needs
- We will deliver 1,350 oku yen cost improvements, a majority by FY2023
- We will exit petrochemicals and carbon products, and we are making progress
- We will become more digital, leaner and empowered organization
- We will invest for the future and improve the balance sheet and returns to shareholders
- AND we will pursue KAITEKI, the well-being of people and the planet

Chapters





The New Mitsubishi Chemical Group (MCG)



Forging the future update



Business growth plans



Our vision for the future

Driving the

Forging the future transformation

resiliently despite current economic headwinds



The New MCG



Purpose – Our north star –

We lead with innovative solutions to achieve KAITEKI, the well-being of people and the planet



Science. Value. Life.

We deliver Value to our people, society, and shareholders enabled by Science, and contribute to Life



Our focus markets are aligned to key trends that shape the world as we know it





- Electric vehicles
- Autonomous driving



- Semiconductors
- High-speed communication



Food

- Water and food preservation
- Recyclable packaging

Medical

- Health conditions
- Ageing population



- Growing population
- Energy efficiency



- Growing middle class
- Product longevity



- Circular economy
- Carbon capture and storage

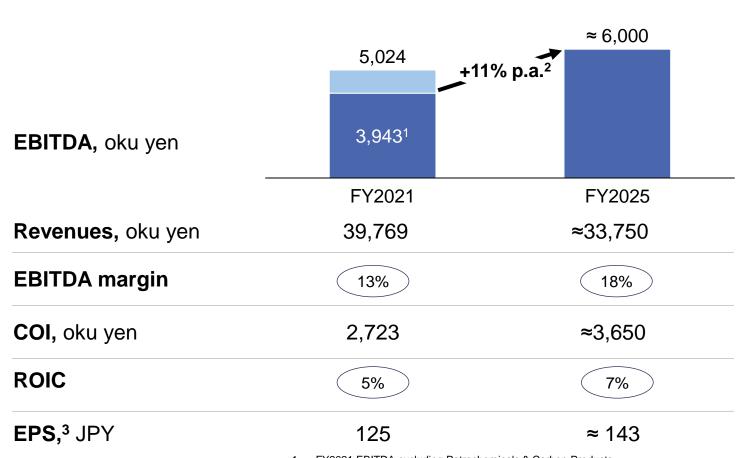
Sustainability natives



We remain committed to our transformative Forging the future targets



Financial targets



- FY2021 EBITDA excluding Petrochemicals & Carbon Products
- . Organic EBITDA growth excluding Petrochemicals & Carbon Products
- Basic EPS

Non-financial targets

GHG reduction,⁴ Scope 1 and 2

130%

by FY2030 vs. FY2019

Waste reduction⁵

150%

by FY2025 vs. FY2019

Customer satisfaction⁶

16 pp

by FY2025 vs. FY2020

Employee engagement⁷

115 pp

by FY2025 vs. FY2020

Diversity among management⁸

17 pp

by FY2025 vs. FY2020

4. Estimated based on MCG's 29% reduction target incl. petrochemicals and carbon products, 5. Reduction of land fill waste by FY2025, 6. Level of customer satisfaction based on annual customer survey, 7. Percentage of favorable responses to set items in the employee awareness survey, 8. Percentage of managerial staff with a diversity attribute. Target 40%

Please note: pp = percentage points



Forging the future update



Our Forging the future strategy aims at creating value across 5 key pillars





Growth, performance, sustainability

Shift to global profitable markets

Focus on selected end applications

Become a sustainability leader



Strategic cost transformation

Focus on Health
Care restructuring,
operational
excellence and
supply chain
optimization, as well
as procurement



Business to exit

Exit the petrochemicals and carbon products business



Leaner, digital, empowered¹

Shift to a leaner, digital, and empowered organization and workforce



Strategic capital allocation

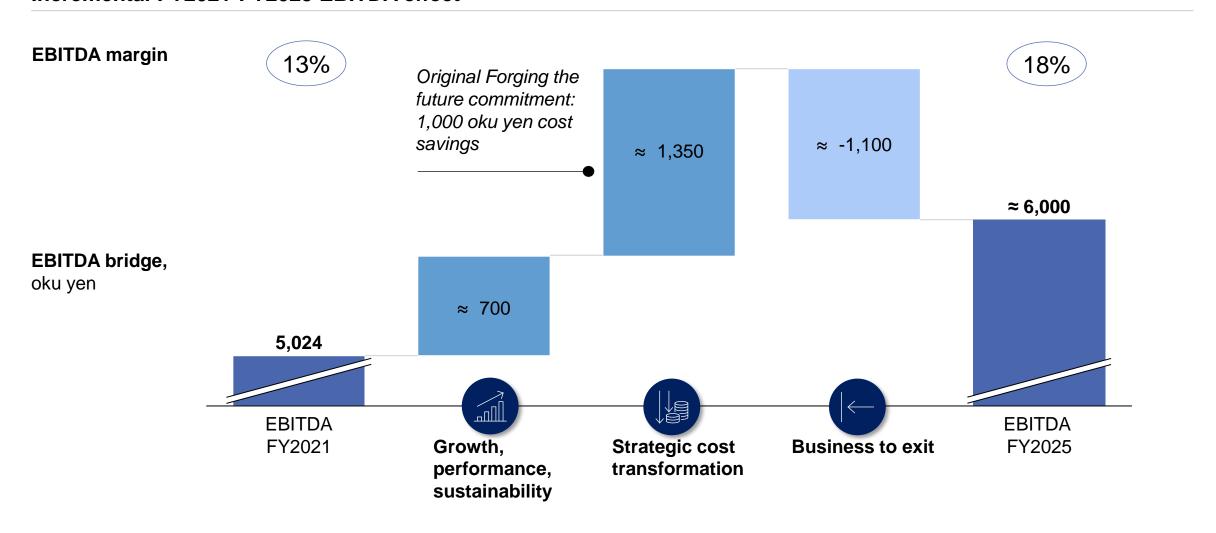
Fuel organic growth

Improve balance sheet for funding future growth

Three primary pillars will drive EBITDA margin from 13% to 18%



Incremental FY2021-FY2025 EBITDA effect

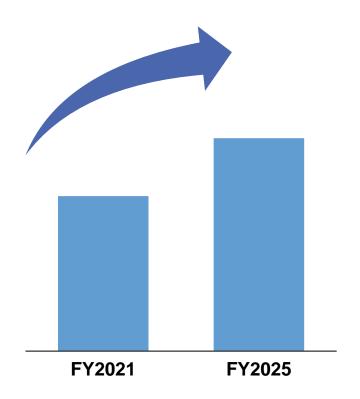




Our business growth and performance key drivers



Approximately 700 oku yen EBITDA increase from "growth, performance, sustainability" pillar





Performance Products

- Make entire portfolio available globally
- Shift to market-oriented organization



Industrial Gases

- Grow 4 global regions
- Reinforce and develop capabilities



Health Care

- Maximize value of priority products in Japan and the US
- Strengthen partnering and establish new sales/ development alliances



MMA

- Build on global #1 position
- Expand alpha technology



We will grow supported by sustainability trends while becoming more sustainable in our operations



Emission reduction

-30%

reduction in scope 1 and 2 emissions by FY2030¹

Sustainability-related products³

20% of revenue by FY2025



Net zero by 2050



Waste and water management

-50%

rate of reduction of landfill waste by FY2025²

VS. FY2019 estimated based on MCG's 29% reduction target incl. Petrochemicals & Carbon Products

Products that improve sustainability themes, particularly those of climate change, circular economy, food supply and water conservation



Innovation underpins MCG's growth performance and sustainability



New guiding principles

End-market focus

- Develop Integrated Innovation Strategies with optimal balance of internal R&D and open innovation in each focus market
- Agile product development process as one team together with end-customers to deliver value on time
- Meet changing demand of markets: Now, tomorrow and the day after tomorrow

New digital capabilities

 Advanced Analytics and Materials Informatics enabling productivity improvements and shorter lead times for customers

More efficient process

- Seamless transition between long-term research platforms and late-stage product development in collaboration with business
- Aggressive leverage of open innovation: Universities, venture investments, and corporate partnerships across the world

New business fields

• Establish basis for the next generation of high-profit, high-growth business clusters to enable long-term growth

Simplified roadmap for EV/Mobility → Battery → Electrolyte



Now

Unique additives to improve capacity and efficiency of liquid electrolytes



Tomorrow

Transition to gel electrolytes to balance capacity and safety



Day after tomorrow

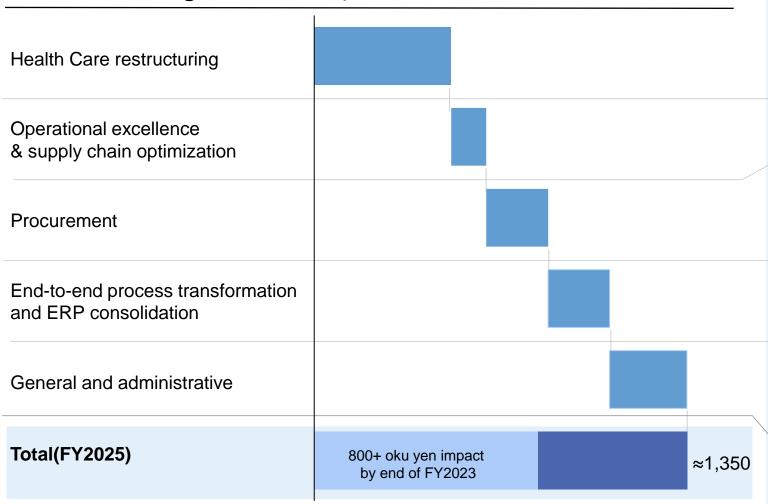
Novel solid electrolytes for higher energy density



Cost transformation will exceed original target and achieve a majority by FY2023







Key FY2023 actions delivering combined FY2022 and FY2023 savings of 800+ oku yen

- Closure of Medicago and other selected site restructuring
- Rightsized R&D efforts
- Closure of high-cost manufacturing plants
- Procurement: consolidation of indirect suppler base incl. travel mgmt., lease cars, analytics/IT tools, global insurance program, marketing and sales agencies
- End-to-end process: indirect labor optimization
- General and North America organization restructuring
- Office consolidation: downsizing and relocation of offices



We are committed and making progress to exit the businesses that do not match our growth and sustainability expectations



Exit timeline for our petrochemicals and carbon products businesses

FY2021

Strategy



FY2023

FY2024

Carve-out

JV/Exit

Petrochemicals

Form JV with partner, drive improvements and carve-out

Detailed planning



Financial carve-out and stand-alone reporting

Exploration of partners



Identification of potential JV partners

Financial carve-out

Carbon **Products**

Divest



Exploration of partners

Active discussions with potential partners

Preparation and execution of exit

JV value enhancing benefits

Quick & focused decision making

Synergies to improve cost structure and margin expansion

Business portfolio and asset evaluation & optimization

Growth based on new technology both for GX and circular economy

Increased value & healthy position to monetize exit



MCG has set itself a LEANER organizational structure

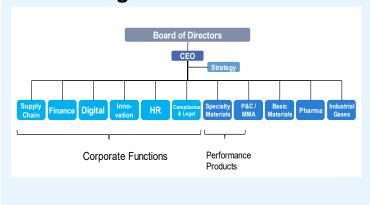




New management and governance

- Shift from holding company to corporate structure
- Faster decision making
- New management team

Final organizational structure¹

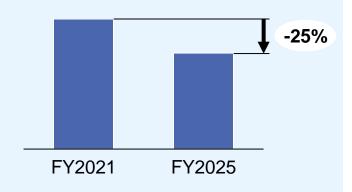




Entities and location optimization

- Downsizing and optimization of offices globally
- Closing and consolidation of locations

Number of legal entities²

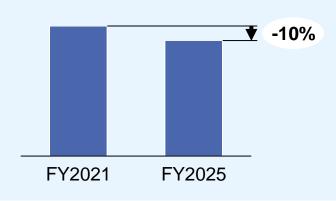




Simplifying the organization

- Natural attrition and programs
- Redeployment and reskilling of existing employees

Headcount



- Audit and Audit committee not shown
- Excludes any changes in Nippon Sanso Holdings entities

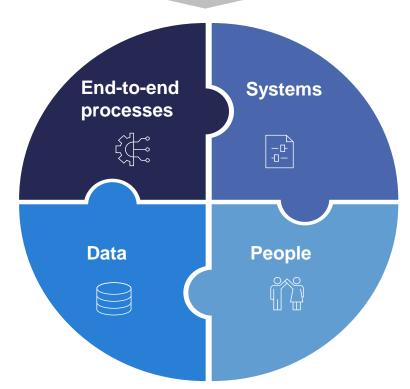


MCG will become more DIGITAL including technology, data, and digital business models



Complexity of processes currently significantly exceeds industry benchmark

- Automated End-to-end global processes: 90% standardized, 10% differentiated for competitive advantage
- Centralized data governance
 & data quality standards
- Agile data availability for fast, fact-based decision making



- Future-ready architecture leveraging industry standards
- Consolidation of ERP systems as a backbone for all operations
- Trained and accredited employees
- Global knowledge sharing

Key items currently in process

Global ERP consolidation & renewal, Global HR System implementation, Procurement, CRM



We will EMPOWER our employees for this journey



Our cultural transformation

Empowered workforce



- Develop next generation of leaders
- Nurture talent for transformation
- Visualize one global organization
- Encourage personal development
- Accelerate diversity in leadership
- Promote cultural change and value creation mindset

Health and safety



- Maintain appropriate operations and safe facilities
- Monitor and prevent human rights violations and high-risk situations

Our targets¹

| Empowered | 65% → | Q00/ |
|------------------------|---------|-------|
| workforce ² | 05 /0 - | 00 /0 |

| Diversity |
|-------------------------|
| among |
| management ³ |

| Lost-time | |
|-----------|------|
| injury | |
| frequency | rate |

$$1.18 \Rightarrow 0.71$$

^{1.} FY2020 to FY2025 targets

^{2.} Employee engagement, Percentage of favorable responses to set items in the employee awareness survey.

^{3.} Percentage of managerial staff with a diversity attribute.

^{4.} Percentage of favorable responses to set items in the employee awareness survey.



Business growth plans



The committed individuals leading the businesses as of April 1, 2023





Frank Randall Queen

Executive Vice President, Head of Specialty Materials¹



Manabu Chikumoto

Executive Vice President, Head of Basic Materials²



Hitoshi Sasaki

Executive Vice President,
Head of Polymers & Compounds / MMA



Toshihiko Hamada

President, Chief Executive Officer Nippon Sanso Holdings



Akihiro Tsujimura

Executive Vice President, Head of Pharma

^{1.} Rename "Advanced Solutions" to "Specialty Materials" from April 1, 2023

^{2.} Rename "Petrochemical & Coal business" to "Basic Materials" from April 1, 2023

Our transformation is governed by a shift towards specialty materials



FY2021 FY2025



^{1.} Additional EBITDA from other business units: 107 oku yen in FY2021, ≈250 oku yen in FY2025

^{2.} Midpoint of range as disclosed in Medium-Term Management Plan of Nippon Sanso Holdings rounded up

^{3.} Includes effect of partially complete large investment in US facility, ROIC excl. the investment is 9%

^{4.} Assuming JV COI ≈400 and net income of ≈200 oku yen, 50% ownership



Performance Products business



- MCG's engine for profitable growth

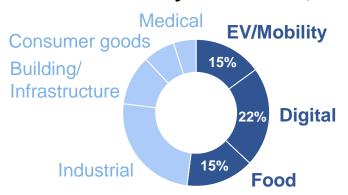
Strong positioning...

20% Global market share of optical polyester film

Supplier of semiconductor cleaning services in Asia and Europe

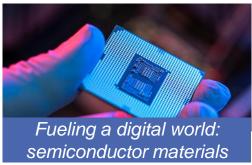
... in growing markets...

EBITDA share by end market, FY2021



... due to capabilities serving key trends









Strategic focus

- Move from productfocused to marketoriented organization confirmed by EV/Mobility pilot in US
- Grow existing products globally based on outside-in mapping done by market segment
- Build sustainable leadership positions based on existing renewable technologies



Performance Products – becoming more market oriented



EBITDA

Key end markets and MCG's products



EV/Mobility

Market growth¹: >14% p.a.

Projected sales growth²: 13% p.a.

- Electrolytes
- Fiber reinforced plastics & composites



Digital

Market growth¹: >10% p.a.

Projected sales growth 2: 7-11% p.a.

- Semicon cleaning
- Epoxy resins
- Semicon equipment components

Products above account for majority of sales growth



Food

Market growth¹: >7% p.a.

Projected sales growth ²: 7% p.a.

- **Emulsifiers**
- Packaging films and materials

EBITDA development, oku yen

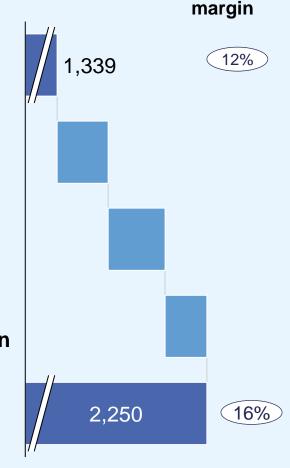






Cost transformation

FY2025



- Sales growth rates until FY2025 for selected target applications
- Includes acquisitions / divestitures
- Includes product mix shift, margin management

Addressable market growth rate in EV, battery and mobility

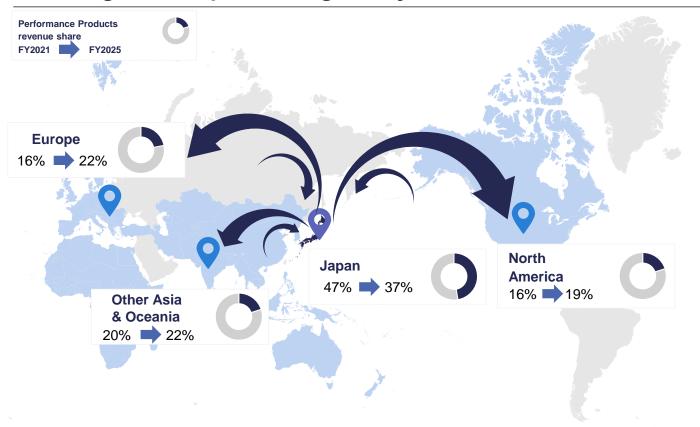


Performance Products



- making entire portfolio available globally

We will grow our products globally ...



... through the steps we have taken to improve our commercial capabilities



Regional sales force focused on serving end-markets with all global products



Customized solutions developed based on respective market needs



Key account management piloted – "one face to the customer"



Customer satisfaction measurement and feedback loop piloted, global roll-out in prep



Enhanced lead and opportunity management process



Captured quick win cross-sell and up-sell opportunities



Moved pilot business from cost-up to value-based pricing



Aligned innovation approach with businesses requirements & timeline



Performance Products



- further expanding our sustainability position

Sustainable brands (selective)

| Brand | Chemistry | Туре | | |
|------------------------|--------------------------------|--------------------|-------------------|------------|
| | | Biobased- route | Bio degradable | Recyclable |
| BioPBS™ | Polybutylene succinate | | | |
| DURABIO™ | Isosorbide-based polycarbonate | | | |
| SoarnoL™ | EVOH ¹ | | | 2~ |
| Nichigo G- Polymer™ | BVOH ¹ | | | |
| GOHSENOL™ | PVOH ¹ | | | |

DURABIO™ – a truly innovative bio-based engineering plastic



- Bio-based engineering plastic that combines the advantageous properties of polycarbonate and those of PMMA
- Designed for applications requiring exceptional durable transparency and visual appearance

Exemplary case: DURABIO™ for green mobility interior

DURABIO™ used for the **rear heater control panel** of new model fuel cell electric vehicle "MIRAI," sold by **Toyota Motor Corporation**



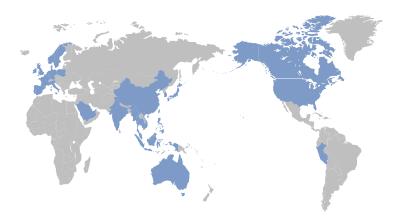


Industrial Gases business

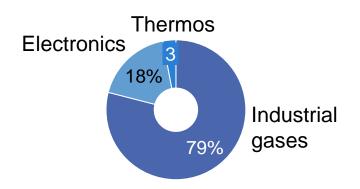
MITSUBISHI CHEMICAL GROUP

strong profit contributor

Nippon Sanso Holdings is the #4 global gas player...



Focus regions

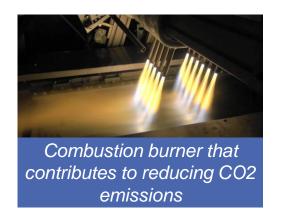


Revenue by business, FY2021

... with applications for high-growth market







Strategic focus

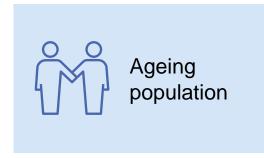
- Grow 4 global regions (Japan, US, Europe, Asia and Oceania)
- Reinforce and develop the Group's comprehensive capabilities
- Actively explore opportunities to gain more synergies between MCG and Nippon Sanso HD



Health Care business -spearheaded by pharma business



We are specialized in Health Care solutions and supported by key trends ...







... with capabilities in key techniques and applications







Strategic focus

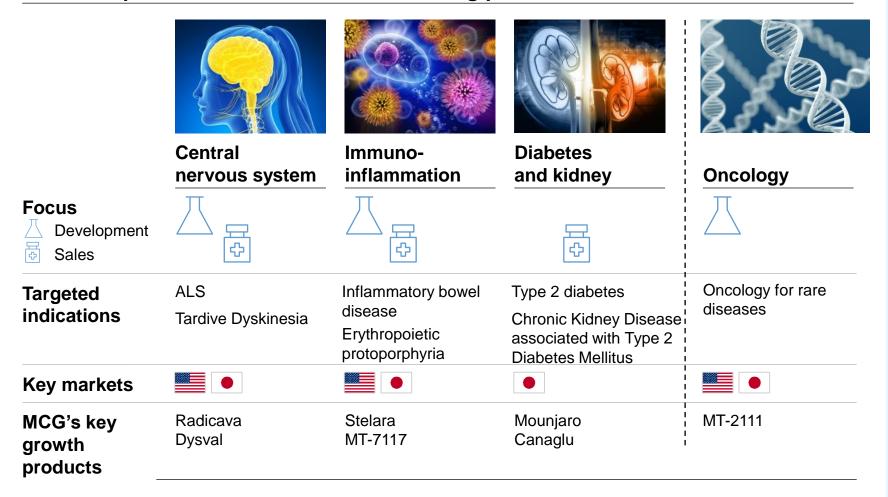
- Advance precision medicine through the upgraded R&D processes
- Focus innovation development on rare diseases and continue to invest in a new pipeline
- Leverage
 partnerships for
 development and sales



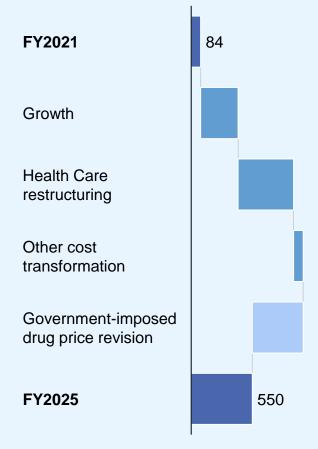
Health Care – focusing on three core areas and restructuring the business



Focus on precision medicine and addressing patients with unmet needs



EBITDA development, oku yen





MMA business



cost-advantaged technology leader

Strong technical capabilities in MMA ...

#1 cost-advantaged technology leader

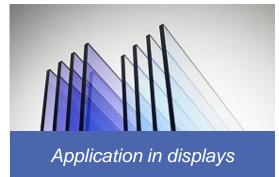
#1 player by capacity

#1 share in merchant market



... and growing market based on key end applications







Strategic focus

- Increase productivity, improve raw material access, and leverage best technology through new footprint
- Benefit from lower demand volatility in the US
- Strengthen
 sustainability focus
 based on existing
 PMMA recycling and
 bio-MMA

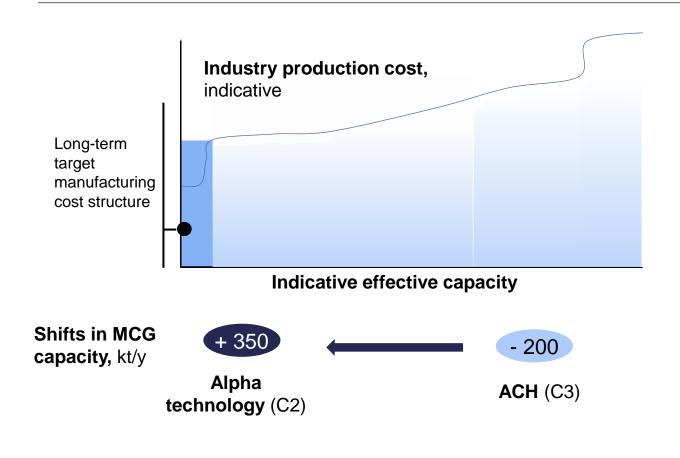


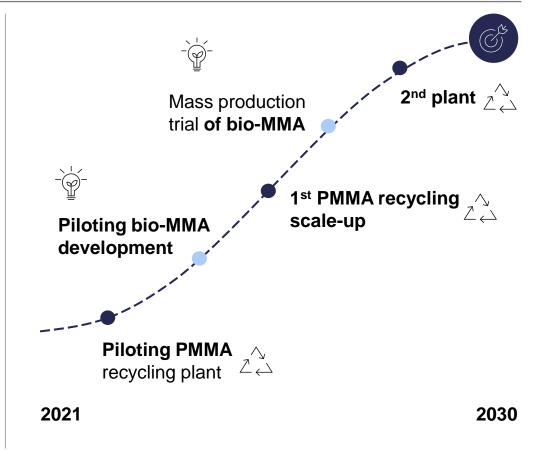
MMA – capacity shift towards lower-cost alpha technology and expanding the sustainable MMA portfolio



MCG is the #1 player in MMA leveraging the alpha technology and global footprint ...

... and will further strengthen its sustainability offering

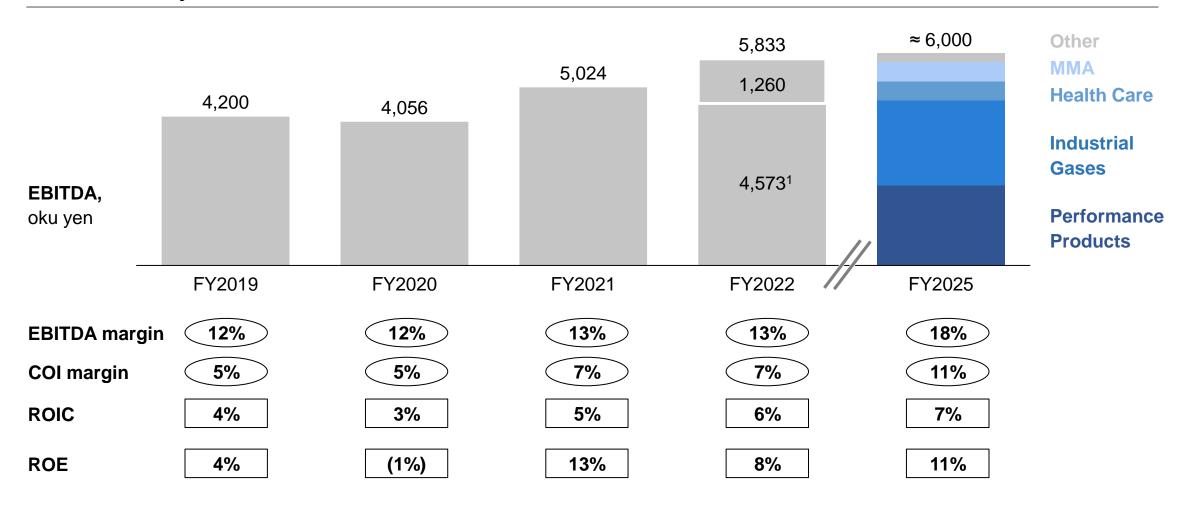




Performances of the businesses will deliver a strong financial position in FY2025



Evolution of key financials



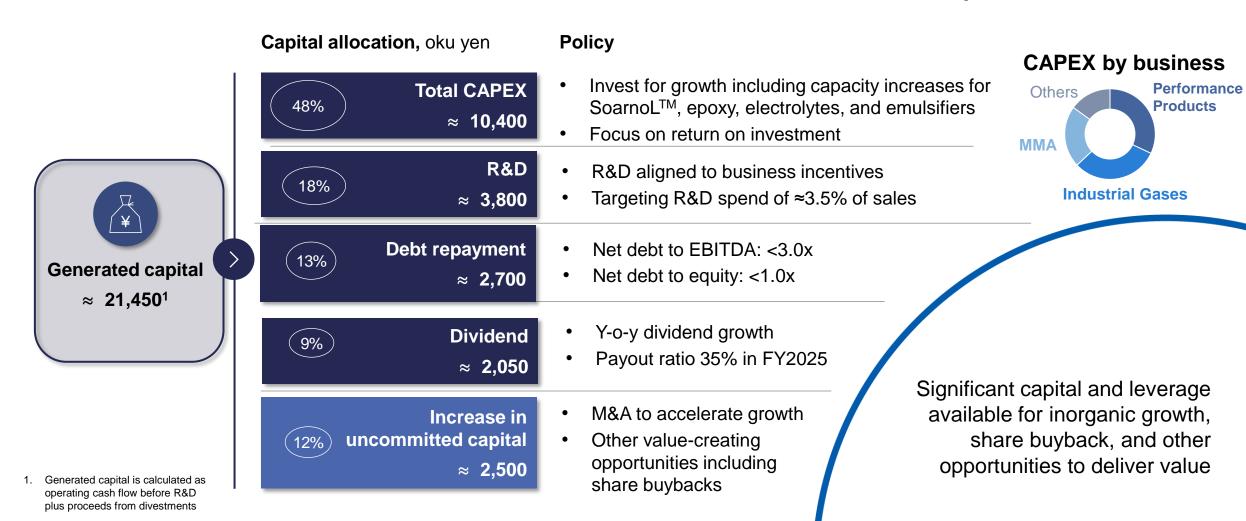
EBITDA excluding the result of the Gilenya arbitration award. Figures with the same exclusion are; EBITDA margin 10%, COI margin 4%, ROIC 4%, ROE 2%



The generated capital will fund organic growth, increase shareholder return, and provide a healthier balance sheet



For periods FY2023-FY2025





Our vision for the future



Our vision for the future



"A leading specialty materials group that delivers innovative solutions globally, bringing superior value to our customers, shareholders, and society"

Forging the future will be a transformative journey and pave the way to win beyond 2025



| Phase 1: Planned | Phase 2: Executed | Phase 3: Accelerate | Phase 4 |
|-------------------------------------|---|--|---|
| 5 initiatives | FY2021-FY2022 | FY2023-FY2025 | Beyond FY2025 |
| Growth, performance, sustainability | Pathway to more focused portfolio defined | Focused markets, global expansion and commercialization excellence | Decitioned to conture |
| Strategic cost transformation | Cost reduction for FY2022 on track, further actions taken | Procurement, Operational excellence, G&A improvement | Positioned to capture transformational impact |
| Business to exit | A few divestitures, financial carve-out of Petrochemicals | Carbon Products sale, Petrochemicals JV established | |
| Leaner, digital, empowered | Reduced complexity in structure, cultural transformation underway | Global, digital End-to-end processes, fewer locations, diverse & inclusive workspace | |
| Strategic capital allocation | Improved net debt/equity | Capital allocation supporting growth, dividends and a healthier balance sheet | |

Major highlights from todays presentation



- We have achieved solid progress with our Forging the future strategy
- We have an executable plan to continue our transformation journey
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QQAWe are happy to answer your questions



Jean-Marc Gilson President, Chief Executive Officer



Yuko Nakahira Executive Vice President, Chief Financial Officer

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