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VISION 2030 Business Strategy Presentation Mobility Solutions

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June 14, 2023

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Mobility Solutions Business Strategy for VISION 2030

Mobility Solutions Business Strategy for VISION 2030



Ideal vision

Providing unique materials, features and services to solve social challenges and let us achieve sustainable business growth



Progress

Toward our targets for 2030 and 2025, we are promoting our strategies for both "materials" and "solutions" businesses, and will enhance our initiatives quickly.



Overview of the Mobility Solutions Business

Overview of the Mobility Solutions Business

Growth of operating income before special items

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Through capturing high growth and high-value-added products' demand in automotive and related applications, we are achieving profit growth outpacing the increase of global automotive production in 2022–2023.



Market Environment

Market Environment (Global Automotive Production Volume)

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FY20 FY21 FY22 FY23 FY24 FY25 FY26 FY27 FY28 FY29 FY30 FY31 FY32 FY33 FY34

While the growth rate of total production is expected to slow over the long term, BEVs in particular are set for a surge in popularity. *BEVs are expected to comprise about half of all production by 2030.



Growth Strategy in line with Expanding EV Demand

- (1) Changes resulting from shift to EVs
- (2) Providing materials & solutions
- (3) Supporting sustainability
- (4) Initiatives for industry change

Growth Strategy in line with Expanding EV Demand (1) Changes resulting from shift to EVs



		Exterior	Interior	Drive system	Battery	Wiring system
		Bumpers, liftgates, trunks, etc.	Instrument panels, seats, upholstery, etc.	Motors, inverters, cooling systems, etc.	Batteries, cases, cooling systems, etc.	Wire harnesses, connectors, busbars, etc.
Changes of powertrains (batteries, motors, etc.)	Extended cruising range (improved electric mileage; increased battery capacity)	Lightweighting				
		Improved aerodynamics (design)			Improved aerodynamics (underbody)	
				Miniaturization	Increased capacity (increased size)	Space-saving High voltage
	Limiting heat generation while driving			Heat management	Heat management	
	Fast charging					High voltage
	Effective use of the engine compartment	Extra trunk (frunk)				
Higher added value in EVs	More pleasant passenger cabins		Noise reduction Vibration absorption			
	Reduced environmental burden	Use of recycled/bio-based materials				
			Eco-friendly, animal-free leather			

New needs born from the shift to EVs are offering new opportunities for materials as well

Growth Strategy in line with Expanding EV Demand (2) Providing materials & solutions

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Demand relating to engine parts (fuel tanks, etc.) decreases

We will continue to focus on developing materials and solutions that can capture EV-specific needs



As EVs become more widespread, supporting sustainability is increasingly important



Encapsulant sheets for solar cells TAFMER™

- Increasing production capacity in view of the growing renewable energy market
 - New plant in Singapore Construction to be completed in FY24



Internal & external parts for EVs Mechanically recycled PP compounds



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Recycled material containing 30-50% post-consumer material

Adopted and utilized in mass production by North America OEMs. Global rollout now being considered.

Focusing on expanding and deploying measures that meet sustainability requirements



Growth Strategy in line with Expanding EV Demand (4) Initiatives for Industry Change



Responding to changes which is expected in the automotive industry's supply chain



- Development platforms for materials and solutions
- Deployment of global networks



For existing OEMs

- Supplying differentiated materials
- Proposing modular concepts

For startups

 Providing "One-stop development support" from design, evaluation to low-volume production

*Shift to EVs is opening the way for new players to enter into various mobility businesses

Focusing on providing not only materials supply and development proposals for existing OEMs but also support for startups



Strengthening and pursuing three approaches for an EV society



Through steadily capturing the new business opportunities resulting from the shift to EVs, we'll continue to move forward to achieve our VISION 2030

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Mitsui Chemicals Group Group VISION 2030 Business Strategy Presentation ICT Solutions

HIRAHARA Akio

平原 彰男 Senior Managing Executive Officer Business Sector President, ICT Solutions Business Sector

June 14, 2022

Our Targets for 2030



(JPY bn)

- Return from previous investments 70.0
- Organic growth
- New businesses + M&A



Creating and growing a "unique" ICT Solutions business to grow operations here into our third pillar of earnings

Continuing to boost capacity and develop products focused on new needs in the interests of mediumto long-term growth, despite sluggish markets for semiconductors, smartphones and the like

Strategies for reaching our VISION 2030 targets

Boosting our competitiveness in the areas of semiconductor & assembly solutions and imaging solutions

ICROS™ Tape:	Expanding production capacity and augmenting our
	product portfolio in new areas
Pellicles:	Reaching the No. 1 position by strengthening our EUV
	business and leveraging our acquisition of Asahi Kasei's
	business
APEL™, etc.:	Introducing new materials to capture the demand of the growing XR market

Addressing demand for eco-friendly products in the area of converting solutions

Strengthening our PUD*/POD** supply network

- * Polyurethane dispersions / For monomaterial packaging
- ** Polyolefin dispersions / Heat-sealable coatings to be used on paper-based packaging

Business Environment

Medium-term growth in the semiconductor market

Global semiconductor market scale



Contributing to the advance of CASE

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Connected: More advanced communications and 5G/6G-compatible materials

Gigafreq™ Resins for high frequency printed circuit board material Autonomous: Materials relating to autonomous driving technology

APEL™ Resins for automotive camera lenses

Electric: LiB materials

- HI-ZEX MILLION[™] Resins for separators
- **BONRON™** Heat resistant coating for separators
- MILLET[™] Electrolyte

Semiconductors: Improvements & production increases

MITSUI PELLICLE[™] Dust cover for photomasks

Tape for the semiconductor manufacturing process

Following our plans for development & increased production capacity in pursuit of market recovery & expansion

ICROS™ Tape

Semiconductor & Assembly Solutions

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utting-edge market)

(cut

pellicles

D d d

MITSUI PELLICLE™



Expanding the business by responding to technological innovation and diverse customer needs

Establishment of Mitsui Chemicals EMS (July 2023)

Asahi KASEI X 🄎

Mitsui Chemicals

Aiming to be the world's No. 1 diversified pellicle manufacturer

- Top supply capability worldwide
- World's most advanced product technology & process development capability
- Industry No. 1 for sales, purchasing and logistics networks

EUV

Using first-mover advantage to expand our business and maintain our leading position

DUV(ArF immersion lithography)

Capturing the No. 1 position via acquisition of Asahi Kasei's business

FPD

Maintaining the top market share held by Asahi Kasei's business





Pursuing further growth via enhanced marketing and increased supply capacity



Expanding our business scope from primarily the wafer backgrinding process to other processes

Semiconductor

& Assembly

Solutions

ICROS[™] TAPE

formation

Film

Cleaning

Miniat

Semiconductor

& Assembly

Solutions

Forging ahead with product development to help bring about more advanced semiconductors

Developed a manufacturing process for higher silane

Used higher-density Si bonding to improve deposition accuracy/performance Developed low-temperature process



Anthraquinone capacity boost

(from April 2025) Catalyst used in hydrogen peroxide production



Yamamoto Chemicals Inc.

processing than Moore" Wafer More esigns **d** Š ŏ Π m and **Thinning**



lowe

Sp

Higher

Speeding up R&D of organic materials for cutting-edge next-gen semiconductor manufacturing processes



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Business growth in new applications where high growth is expected

Adding functionality to enable a wider range of applications

APEL™

Improved transparency

Heat resistance

Improved



Imaging

Solutions

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Smartphone camera lenses

- High refractive index
- Low birefringence
- Low water absorption



XR lenses

long-term reliability

automotive camera lenses



Number of automotive camera lens modules shipped



Giving existing brands new functionality to allow for their adoption in XR devices and automotive cameras

Aiding the Shift to EVs

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Speeding up development of materials for EV applications

Electrolytes

MILLET™

Battery

Material

Solutions

Electrolyte Compatible with next-gen high-capacity batteries

Cell packages

UNISTOLE[™]

Adhesive for pouch Highly adhesive and workable



Separators

HI-ZEX MILLION™

Resins for separators

A separator substrate material with high strength and precision

BONRON[™]

Heat resistant coating for separators Ceramic coating binder

Providing materials and solutions in line with changes to battery technology

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Rising needs and growing demand for sustainability



Bolstering our production capacity globally to meet rising demand

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Building a business model that allows materials to be horizontally recycled into food packaging

Recovering plastic film scraps that are currently treated as waste from the film-making and printing processes, and turning these scraps into pellets that can be used to produce food packaging



Recovering and recycling rolls of monolayer PP and PE film for use with food





- Minimizing plastic waste
- Minimizing the use of fossil resources
- Supplying high-quality, recyclable, recycled materials for use in food packaging

Enhancing collaborative efforts with film manufacturers and converters in pursuit of material recycling for packaging materials



Bolstering R&D Capabilities



Consolidating our R&D capabilities in the field of ICT to establish a new facility for co-creation with customers

Innovative Solutions Center for Information & Communication Technology (Opened in fiscal 2023) (Opened in fiscal 2022)

ICT research building in Nagoya



Strengthening relationships with customers by speeding up development and proposing solutions A global solutions company that leads change and contributes to a sustainable future



Chemistry for Sustainable World



Challenge Diversity One Team

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