Business Strategy Presentation

- Mobility Solutions Business
- ICT Solutions Business



Business Strategy Presentation Mobility Solutions

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Managing Executive Officer Business Sector President, Mobility Solutions Business Sector

- ► Mobility Solutions Business Strategy for VISION 2030
- Mobility Solutions Business Earnings and Targets
- Growth Strategy for the Materials Business Elastomers Composite materials
- Growth Strategy for the Solutions Business



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

Helping solve social challenges through materials

Materials business

Elastomers

Composite materials

Offering solutions that combine materials with services

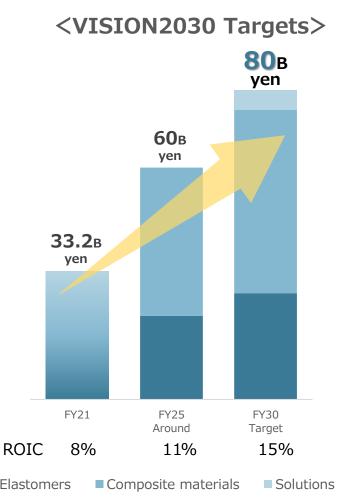
Solutions business

providing services

Future Mobility





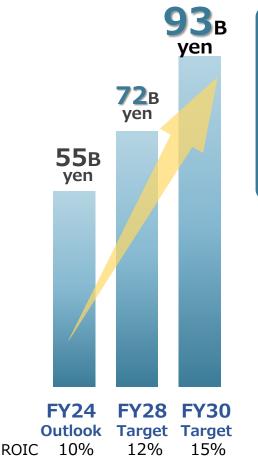


Mobility Solutions Business Strategy

Strategy for achieving our FY28 targets

Materials business: Continue the transition to sales focused on growth markets and differentiation Speed up the rollout of diverse applications for elastomers

Solutions business: Accelerate ARRK transformation and enhance cultivation of new business model





Solution

Further accelerate the transition to sales focused on growth markets* and differentiation

*Automotive sustainability, high-performance packaging materials, renewable energy, etc.

Elastomers

Leverage polymers with unique strengths to capture demand & application in growth markets

Composite materials

Continually launch differentiated products to a wide range of growth markets and capture new markets

Speed up transformation and implement growth policies at ARRK

Continue transformation aimed at improving earnings

Focus on providing a service for high-mix, low-volume production spanning everything from development through to prototyping and mass production

Design Planning Analysis Prototyping Mass production

Enhance cultivation of new business model

Deepen the solutions capabilities we've acquired and strengthened, as well as our ties with other companies



Business partners Rollout of new transportation system





Commercialization of innovative carbon fiber production technology using microwaves

MDC: Mobility Development Center



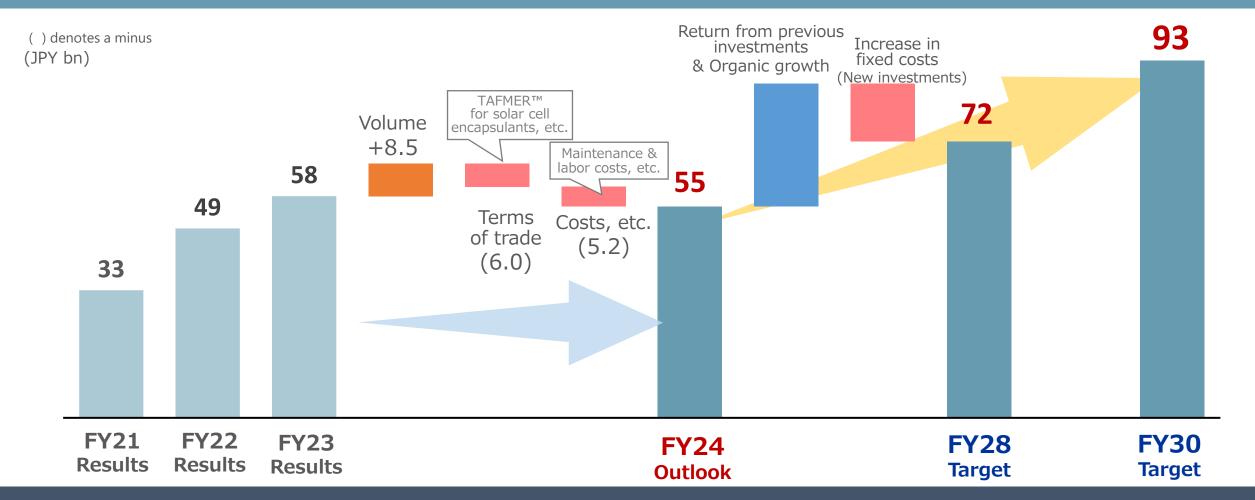
Mobility Solutions Business Earnings and Targets

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Mobility Solutions Business Earnings and Targets



Driving further growth with efforts focused on the shift to growth markets and differentiation



- Increased earnings generated by the transition to focusing on growth markets and differentiation as per the Basic Strategy
- Despite the current downturn in China's encapsulant markets causing TAFMER™ growth to slow, the fiscal 2030 target has been raised from our initial plan by continually pursuing our Basic Strategy



Growth Strategy for the Materials Business

Growth Strategy for the Materials Business (1) Elastomers – 1: History of the TAFMER™ business

Mitsui Chemicals

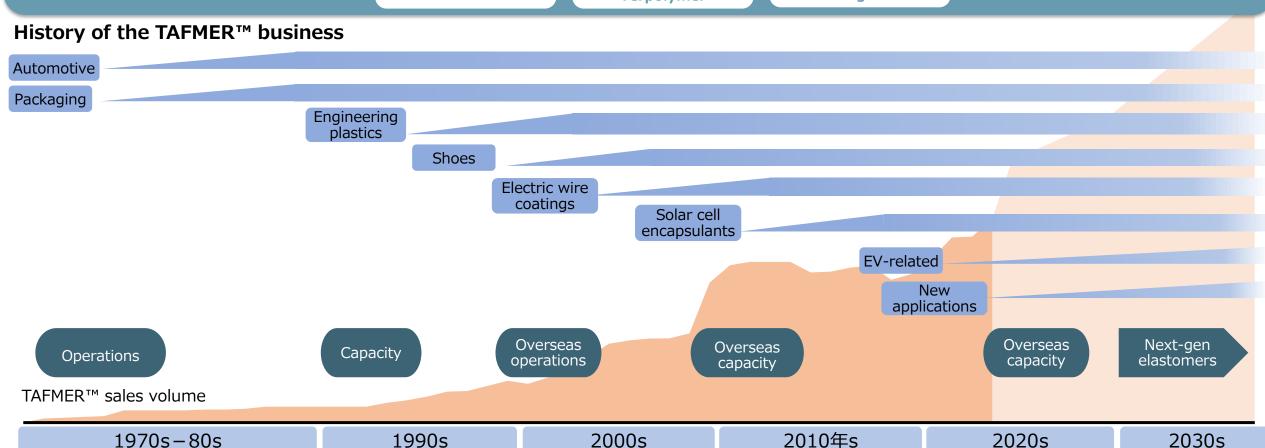
Dec. 10, 2024

Cultivating markets and pursuing differentiation by leveraging polymers with unique strengths via the combination of raw materials, catalysts and production technologies

TAFMER™
Alpha-olefin copolymer

MITSUI EPTTM
Ethylene-Propylene
Terpolymer

LUCANT™ Ethylene-alpha-olefin co-oligomer



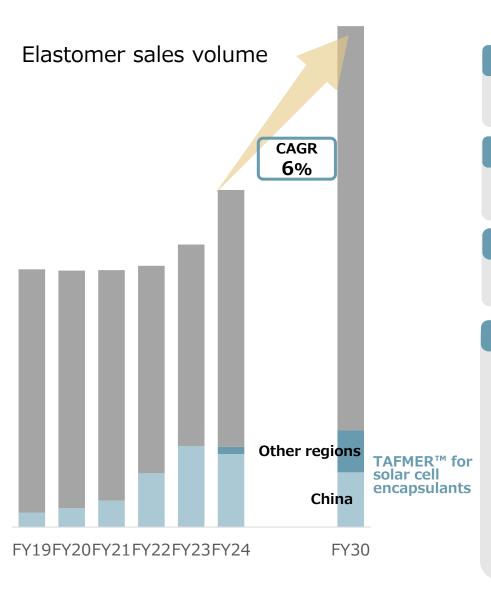
- Cultivating markets and pursuing portfolio transformation
- Achieving further growth and leaping forward by investing appropriate resources and introducing new products in the market as the <u>leader in the field</u>

Growth Strategy for the Materials Business (1) Elastomers – 2: The rollout of diverse applications

Mitsui Chemicals

Dec. 10, 2024

Leveraging polymers with unique strengths to capture demand & application in growth markets



Deploying polymers with unique strengths in growth markets with diversifying needs

Automotive sustainability

Lightweighting: Longer cruising range **Eco-friendly:** Improved recycled materials

High-performance packaging materials

Food packaging: Easy-open packaging & low-temperature sealing performance **Eco-friendly:** Monomaterial designs

Emerging economies & new growth markets

Market development through the development of unique differentiated polymers that make use of our expertise



Considering next-gen elastomer plants

Renewable energy

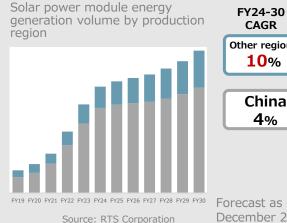
Solar cells: Improved generation efficiency & long-term reliability

TAFMER™ for solar cell encapsulants

Pursuing a strategy of local production for local consumption to boost sales in regions where demand is expected to rise

Boosting sales to customers who prioritize quality and performance

Launching improved brands Providing generation efficiency data via demonstration testing Using IP to secure rights for Mitsui Chemicals



Other regions **10**% China 4%

CAGR

Forecast as of December 2023

Growth Strategy for the Materials Business (2) Composite Materials – 1: Overview



Dec. 10, 2024

Agile exploration and rollout of new applications by leveraging diverse product lines and global sites

PP compounds

ADMER[™] Adhesive polyolefin

MILASTOMER™
Olefin-based
thermoplastic
elastomer

ARLEN™ Polyamide 6T AURUMTM
Thermoplastic polyimide

New composite materials

Focus on growth markets & differentiation

- Automotive sustainability, high-performance packaging materials, renewable energy, etc.
- Cultivating emerging markets

Enhance ability to offer concepts (Solution capabilities)

Global network



Planning

Analysis

Prototyping

Mass
production

Furope
Netherlands

Germany
China (Zhangjiagang)
India
China (Zhangjiagang)
Production sites
PP Compounds
Performance compounds

R&D sites

America

U.S. Troppesses

Wexico

Mexico

Brazil

Bolstering the ability to offer solutions that leverage the entire Group's capabilities, from design and planning through to mass production

 Strengthening the system of local production for local consumption and securing demand on a regional basis by linking up development activities at sites within each region

Pursuing agile product and application development across product and organizational boundaries

2023 2024

2030

Growth Strategy for the Materials Business (2) Composite Materials – 2: PP Compound



Dec. 10, 2024

Achieve growth higher than market growth by making full use of global sites

Japan / N. America / ASEAN: Full lineup strategy leveraging the solid customer base

India / Brazil: Growth strategy centered on differentiated products

China / Europe: Niche strategy tailored to market environments

(based on offering concepts)



Bolstering sales and development by way of tie-ups with performance compound sites

Expansion of recycled PP compounds

Pursuit of new paintless materials

Developing materials that omit painting processes and meet demand to reduce environmental impacts

Recycled PP compound sales volume Waste plastic Compound production using proprietary expertise containing 20-50% recycled material Automotive materials

(interior & exterior)

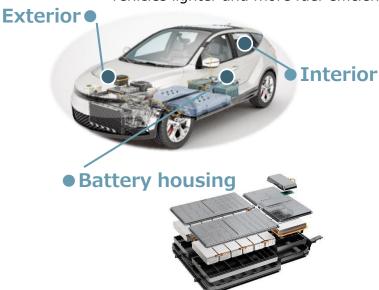


Optimizing coloring and colorant dispersal technologies

Fiber-reinforced PP compounds

Addressing need for thinner and lighter or more rigid materials

Switching from metal to plastic automotive components to make vehicles lighter and more fuel-efficient



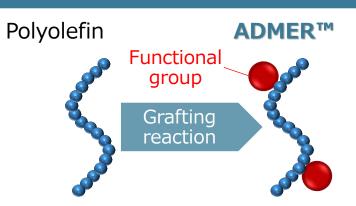
Growth Strategy for the Materials Business (2) Composite Materials – 3: ADMER™

Mitsui Chemicals

Dec. 10, 2024

Achieving global growth by increasing adoption in food packaging, automotives and various other applications

What is ADMER™?



- ADMER™ sees a functional group introduced to a polyolefin to create a modified polyolefin with adhesive properties
- With a lineup including PE-, PPand special PO-based materials, usage options can be chosen to suit the adhesion substrate

Gas barrier layer: PA, EVOH

Adhesive resin layer: ADMER™

Moisture barrier layer: PE, PP

(Example of use) Multilayer food packaging

Extends expiry dates by providing barrier properties



Films







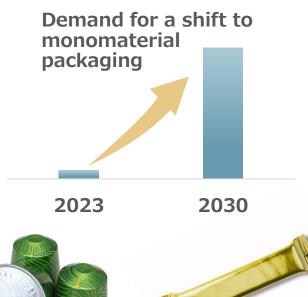
Bottles



EV-related

Rollout to monomaterial packaging applications

Achieving global demand growth (particularly in Europe and ASEAN) by meeting the needs of brand owners and others seeking to address recycling







Growth Strategy for the Solutions Business

Growth Strategy for the Solutions Business



Dec. 10, 2024

Establishing new business models by deepening the solutions capabilities we've acquired and strengthened, as well as our ties with other companies

Materials business

Solution capabilities (Concept development and proposal)



Tie-ups

Business partners

Pursuing new business development that leverages solution capabilities, while also contributing to the growth of the materials business by offering concepts



(Summary) Mobility Solutions Business Strategy

(Summary) Mobility Solutions Business Strategy

15%

12%

ROIC 10%

Ideal vision

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



Materials: Achieving sustainable growth by focusing on growth markets and differentiation Solutions: Striving to solve social challenges while also creating high value-added businesses



Business Strategy Presentation ICT Solutions

HIRAHARA Akio

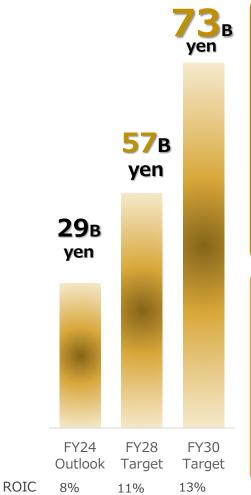
平原 彰男 Senior Managing Executive Officer Business Sector President, ICT Solutions Business Sector

ICT Solutions Business Strategy

Strategy for achieving our FY28 targets

Focus resources on key businesses

Semiconductor & assembly (ICROS™ Tape, pellicles, next-gen materials), coating & engineering materials, lithium-ion batteries



Semiconductor & assembly Contributing to the advancement of semiconductors via a wide-ranging rollout of products for cutting-edge fields

ICROS™ Tape

Increasing production capacity in line with market growth

Expanding business by introducing new products into related fields

MITSUI PELLICLE™

Continuing & reinforcing our strategy to be the top player in cutting-edge EUV/DUV sector Early commercialization of CNT pellicles

Converting

Next-gen materials

Getting ahead of the competition in commercializing materials for the packaging process

Utilizing the process compatibility evaluation capabilities of SHINKO ELECTRIC INDUSTRIES, the Creative Integration Lab.TM, etc.

Imaging

Sales growth & use diversification for AR/VR

Accelerating development of AR materials





Speeding up global rollouts as well as the launch of differentiated products in key markets for coating & engineering materials

Bolstering our production network Accelerating our advance into new applications suited to local needs Battery materials

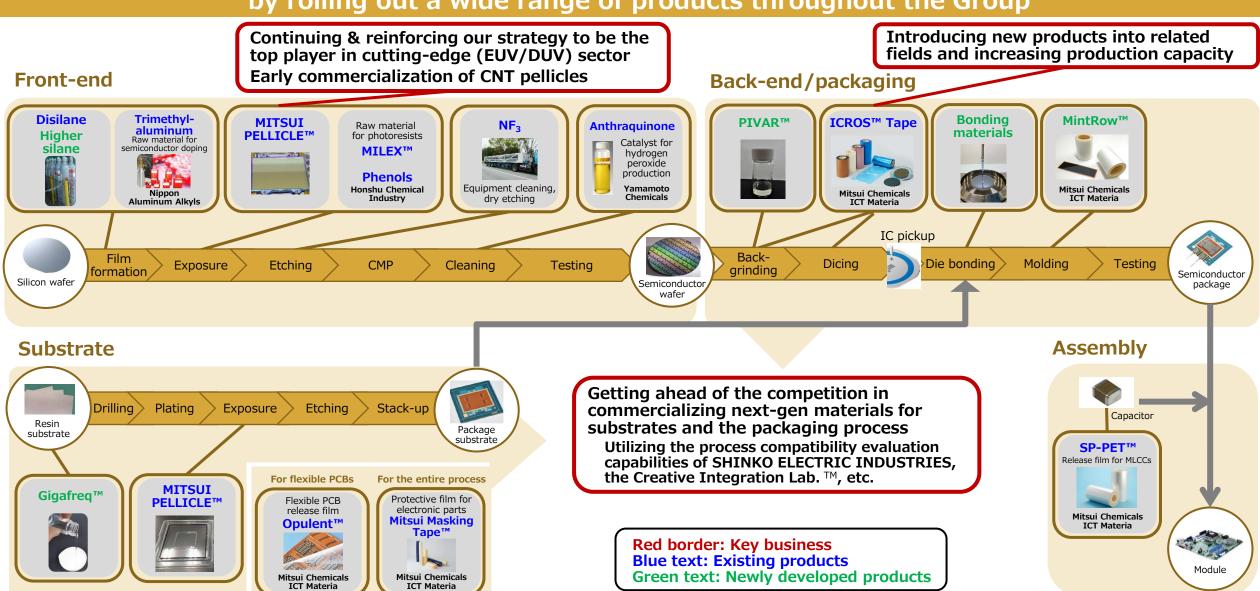
Accelerating the development of next-gen materials to help improve lithium-ion battery (LiB) performance



Semiconductor & Assembly Solutions



Contributing to the advancement of the cutting-edge semiconductor field by rolling out a wide range of products throughout the Group



Semiconductor & Assembly Solutions Mitsui Pellicle[™]

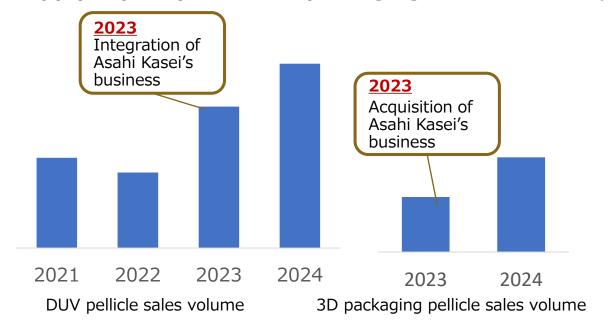
Growing the business in the EUV/DUV sector by responding to technological innovation and diverse customer needs

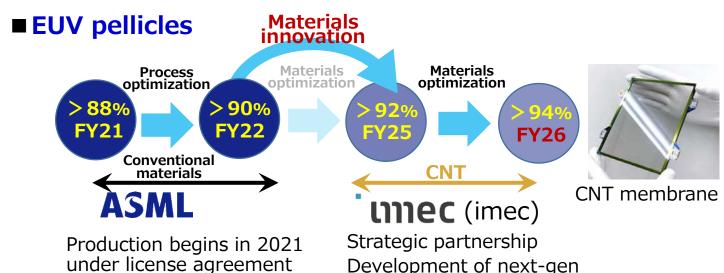
■ DUV pellicles

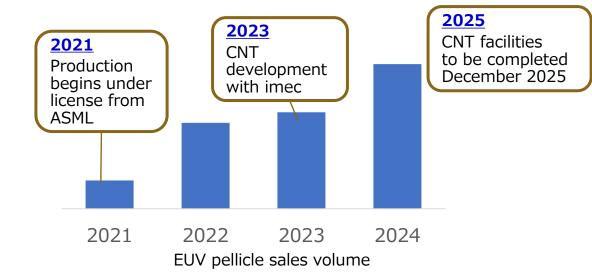
Mitsui Chemicals EMS (from July 2023) (Integrating Asahi Kasei's pellicle business)

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

Developing technology and Increasing supply capacity in the 3D packaging sector







CNT membrane

Semiconductor & Assembly Solutions ICROS™ TAPE, MintRow™

Expanding the scope of business by leveraging our product development capabilities and technical support for customers to

Expanding the scope of business for ICROS™ TAPE

- No. 1 by market share in protective tape for the wafer backgrinding process
- Leveraging its strengths of low contamination for wafer surfaces and precise control over tape thickness to expand applications into the dicing process

Molding

Expanding production capacity for ICROS™ Tape

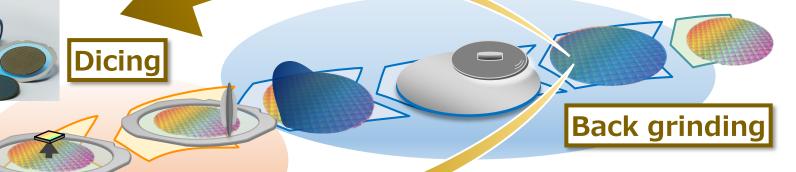
Production capacity in Taiwan has more than doubled



Taiwan phase 1 (entered operation 2020)



Taiwan phase 2 (entered operation 2024)



Newly developed product: MintRow™



- Highly heat-resistant release film
- Alternative to fluorinated chemicals
- Silicon- and halogen-free

Semiconductor & Assembly Solutions Materials for next-gen semiconductor packages



Dec 10, 2024

Getting ahead of the competition in commercializing next-gen materials for substrate and packaging processes

Development of new bonding materials for 3D stacks

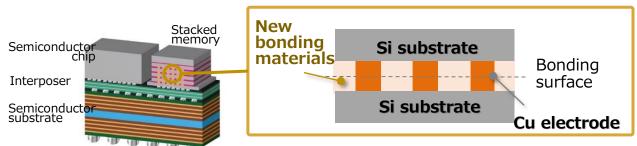
Conventional

- Semiconductor chips are mounted individually on a package substrate
- Information is transmitted via the motherboard

Next-gen

- Multiple semiconductor chips are mounted on an interposer
- Information is transmitted via the interposer
- Capable of temporary bonding at room temperature and permanent bonding at the low temperature of 150°C
- No misalignment after wafer bonding

Examples of structures for next-gen semiconductor packages



Using chip-on-wafer bonding to bond copper electrodes

Acquisition of process compatibility evaluation capabilities

Investment in & collaboration with SHINKO ELECTRIC INDUSTRIES

 Helping to achieve higher speeds and lower power consumption by accelerating development of materials for next-gen semiconductor packages

Strengthening of our ability to offer solutions

Opening of Creative Integration Lab.™ R&D site

- ICT test field (DELA): A place for prototyping and evaluation with customers
 - •Equipped with wafer backgrinding equipment and other evaluation facilities of the kind used by customers
 - ·Undertakes process, performance and reliability evaluations
- Co-creation building (ATTA): A place for communication between customers and researchers



Exterior view of the Creative Integration Lab.™

Imaging Solutions

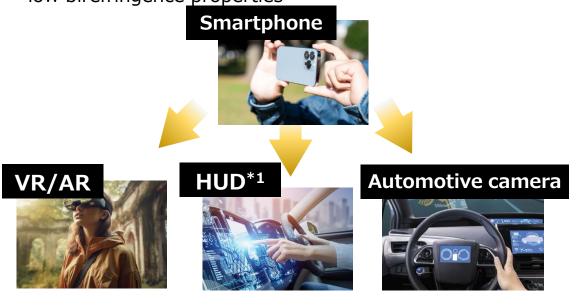


Expanding the portfolio into growth fields through new product development, starting with rollout of smartphone-centered applications

APEL™

Increased sales due to smartphone market recovery

 Speeding up multipurpose application development based on low birefringence properties



Development of special grades of APEL™

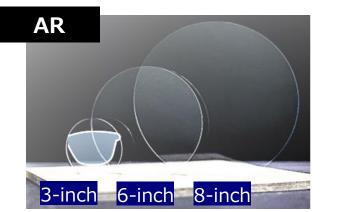
Quickly moving from prototyping to mass production of developed products

Shifting to an agile development setup tailored to customer needs

<u>Target applications</u>: Meeting next-gen smartphone needs with wide-angle/telephoto lenses and periscope lens prisms

Diffrar™

• Development of 8-inch optical polymer wafer for AR glasses





Aiming to secure the wafer's adoption by leading tech companies and have it fitted as standard in AR glasses

Next-gen material development

- Development of materials for next-gen lens design
- Development with an eye to models set to be launched by leading tech companies 3–5 years hence

Converting Solutions: Coating & Engineering Materials

Speeding up business expansion by rolling out differentiated products to core markets

Differentiated products

Coating and engineering materials such as PUD*1 (TAKELAC™), POD*2 (CHEMIPEARL™) and XDI*3 derivatives

 Developing products that offer us a competitive advantage, by combining our derivatization techniques and applying them to special raw materials that other companies do not have

Key markets:

high-performance packaging materials

ICT Semiconductor-related goods, LiB materials, smartphones



High-performance packaging materials



Polishing pads



LiB pouches



Bolstering our technical support & production network to increase sales

Strengthening development capabilities to speed up our rollout of new applications suited to local needs

FY24 Establishment of Coating tech center(India)

- Medium-scale prototyping and sample production
- Technical support
- Development of brands suited to local needs

→ Aiming to speed up cultivation of new applications via development in locations close to markets



→ Increasing our supply capabilities promptly in response to demand growth

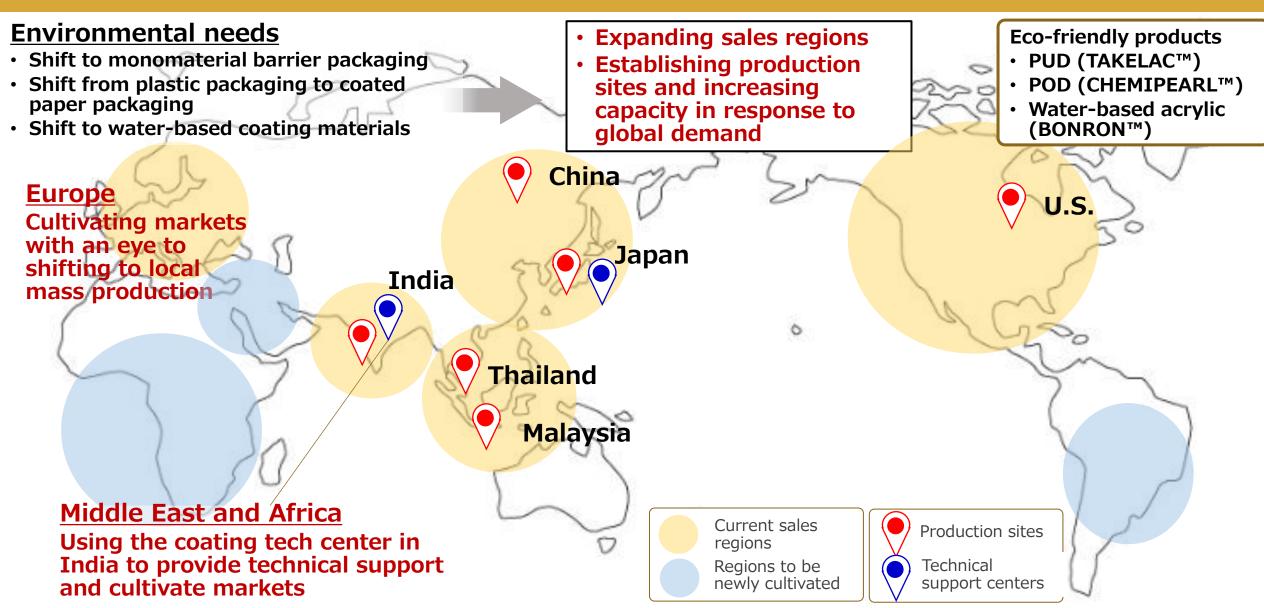
June 2025
Increase to PUD production capacity
(Japan)

 Around double the current production capacity

- September 2025
 Increase to XDI production capacity
 (Japan)
- 20% increase to current production capacity
- *1 Polyurethane dispersions *2 Polyolefin dispersions
- *3 Meta-xylylene diisocyanate

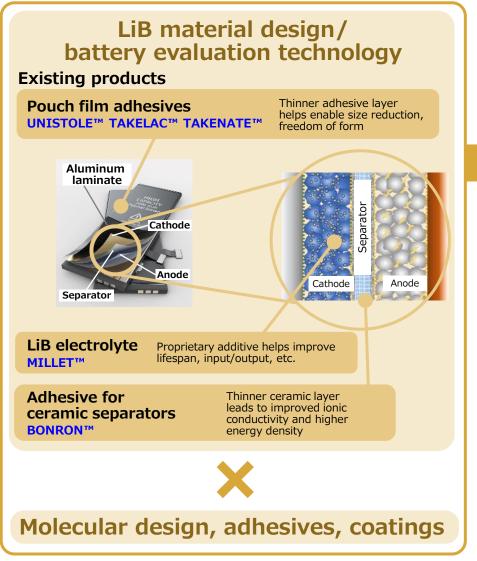
Converting Solutions: Coating & Engineering Materials

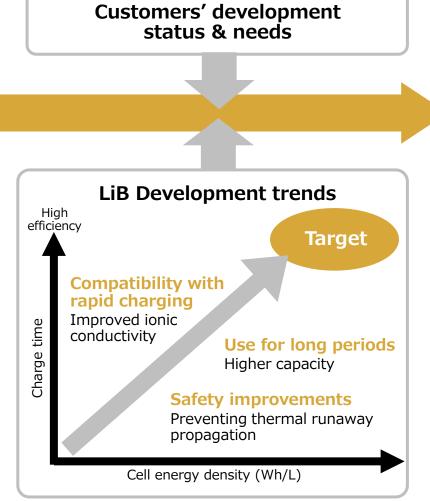
Speeding up global business rollout to meet growing environmental needs

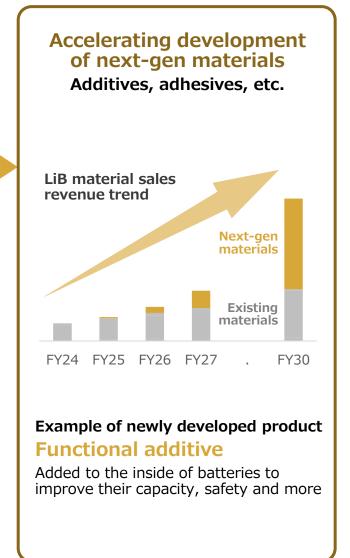


Battery Material Solutions

Using our technologies to help improve LiB performance







A global solutions company that leads change and contributes to a sustainable future

0→1 MAKE IT HAPPEN

Chemistry for Sustainable World



Challenge Diversity One Team

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