

TORAY IR Day

Medium-Term Management Program Project AP-G 2025

Toray Group's Measures for Ultimate Value Creation

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Mitsuo Ohya

Executive Vice President and Representative Member of the Board, Toray Industries, Inc.



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Project AP-G 2025 "Innovation and Resilience Management"

Toray Group will achieve sustainable growth driven by the Sustainability Innovation Business and the Digital Innovation Business

Five Basic Strategies of Project AP-G 2025

TORAY IR Day

Seizing Profit Opportunities

Strategy 1. Sustainable growth

Focusing management resources on Sustainability Innovation Business and Digital Innovation Business

Strategy 2. Ultimate value creation

Maximizing profitability by making the most of tangible and intangible assets, and by collaborating with external partners

Strategy 3. Product and operational excellence

Promoting cross-organizational cost reduction activities leveraging enhancement of quality strength and organizational strength, which are the sources of competitiveness

Strengthening the Management Foundation

Strategy 4. Enhancement of people-centric management

Preserving and further building upon the legacy of our corporate culture, which prioritizes developing people, while promoting individual career development, and improving job satisfaction

Strategy 5. Risk management and governance

Ensuring sound organizational management by enhancing internal controls and improving management capabilities



Toray Group Growth Business Fields

Expanding revenues from businesses related to Sustainability Innovation Business and Digital Innovation Business to about 60% of total

Fields under **Growth Business Fields under AP-G 2025** AP-G 2022 Products that accelerate measures to counter climate change Products that facilitate sustainable. SI GR recycling-based use of resources Business **Business** and production Sustainability Innovation Products that help provide clean Business water and air and reduce (*1)environmental impact *1: Group of Products that help deliver better businesses or

GR Business: Green Innovation Business

LI Business: Life Innovation Business

Business

DI Business

Digital Innovation
Business

products that can help

Group Sustainability

realize the Toray

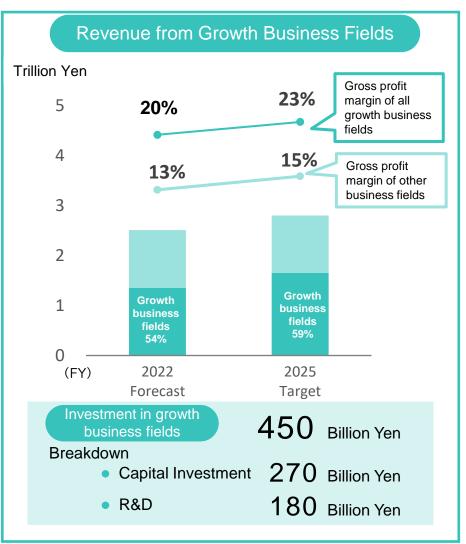
Vision

New

Materials, equipment, technologies, and services that help improve convenience and productivity by supporting the widespread adoption of digital technology

worldwide

medical care and hygiene for people





Basic Strategy 2 Ultimate value creation

Basic Strategy 3 Product and operational excellence

By making the most of the Toray Group's strengths, enhancing our ability to create value while strengthening our competitiveness to seize new profit opportunities



Competitiveness

Strength

New Business Creation

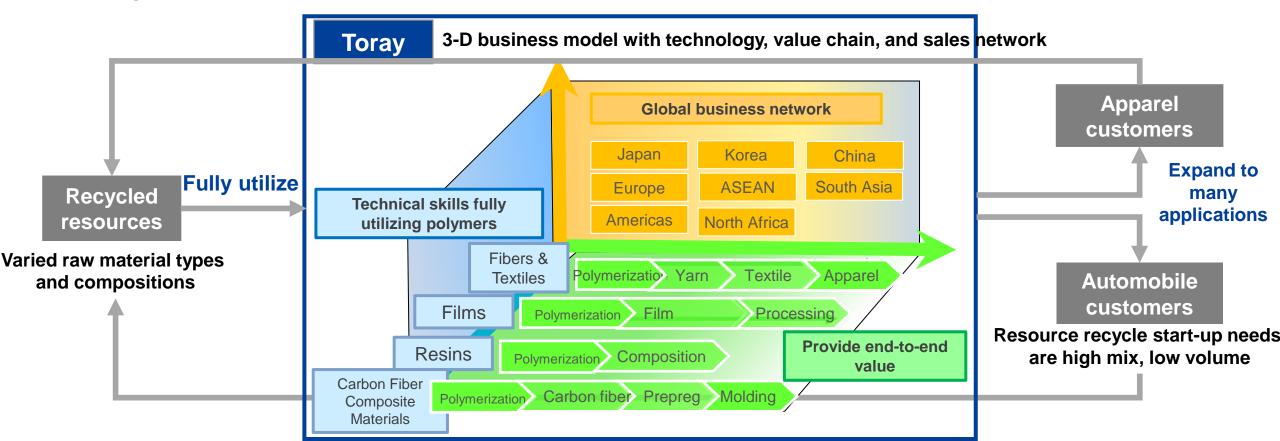
Value for Businesses

Measures for Ultimate Value Creation

- 1. Group-wide Action to Support Growth Business Fields
- 2. Refining Sales Operational Capabilities, Enriching and Extending the Value Chain
- 3. Employing Strategic Pricing
- 4. Enhancing Brand Value

1. Group-wide Action to Support Growth Business Fields: Resource Recycling

Toray expands the applications of a single polymer to diverse fields such as fibers & textiles, films, and resins, and uses it in a wide range of processes from polymerization to processed products. Toray will leverage its unique strengths in global operations to expand the resource recycling market to its advantage.



1. Group-wide Action to Support Growth Business Fields: Mobility

Deliver speedy solutions leveraging cross-organizational, product, and regional collaboration

Customers (OEM, Tier 1)



Accelerate proposal of solutions



Corporate Marketing
Planning Division
Next Mobility Dept.



Global bases

Europe: AMCEU, etc.

China: TARC, etc.

Americas: TAM, etc.

ASEAN: TITH, etc.



Environment & Mobility
Development Center
(EMC)

Advanced Composites
Center (ACC)



AMCEU: Toray Automotive Center Europe TARC: Toray Advanced Materials Research Laboratories

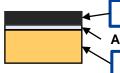
(China) Co., Ltd.
TAM: Toray Industries (America), Inc.

TITH: Toray International Trading Thailand Co., Ltd.

APG management committees,
R&D departments, group companies

Interior molding materials

Combining Ultrasuede™ and TORAYPEF™ into a composite material improves moldability



Surface: Ultrasuede

Adhesive

Base material: TORAYPEF™

Door switch panel shape



Next-generation radiator grill

Under development using metallic PICASUS™ in collaboration between Japan, Europe, and China sites with Covestro Japan Ltd.

(with illumination and sensor transparency

functions)

ORAFTINE
RELECTRIFIC

Proposal of comprehensive solutions across product categories

Comprehensive proposals for interior comfort needs

Interior materials, sound absorbing materials, temperature control films, optical fiber, HUD film, decorative films, and printing technology



Comprehensive proposals for new generation cockpits
Using surface materials, specialty inks, conductive materials, and elastic films. etc.



2. Refining Global Sales Operational Capabilities

The strength of the Toray Group's sales lies in sales operational capabilities that meet the demands of

customers and build a global value chain.

Strengths the Toray Group has cultivated

- ✓ Proposing solutions based on materials
- ✓ Creating new technologies through the pursuit of ultimate limits and technology integration
- ✓ Demonstrating the collective strengths of our R&D organizations
- ✓ Ensuring a stable supply of high-quality products
- ✓ Building a global value chain
 - = Sales operational capabilities

✓ Accelerating business expansion through direct marketing with customers making use of Toray Group trading companies

	FY2022 revenue	Percentage of company-wide revenue	
Toray Group trading companiy ¹	1.05 trillion yen	Approx. 40%	
		. Excluding intercompany	sales

✓ Developing the structures for local production for local consumption in each business to address geopolitical risks and fulfil supply responsibilities

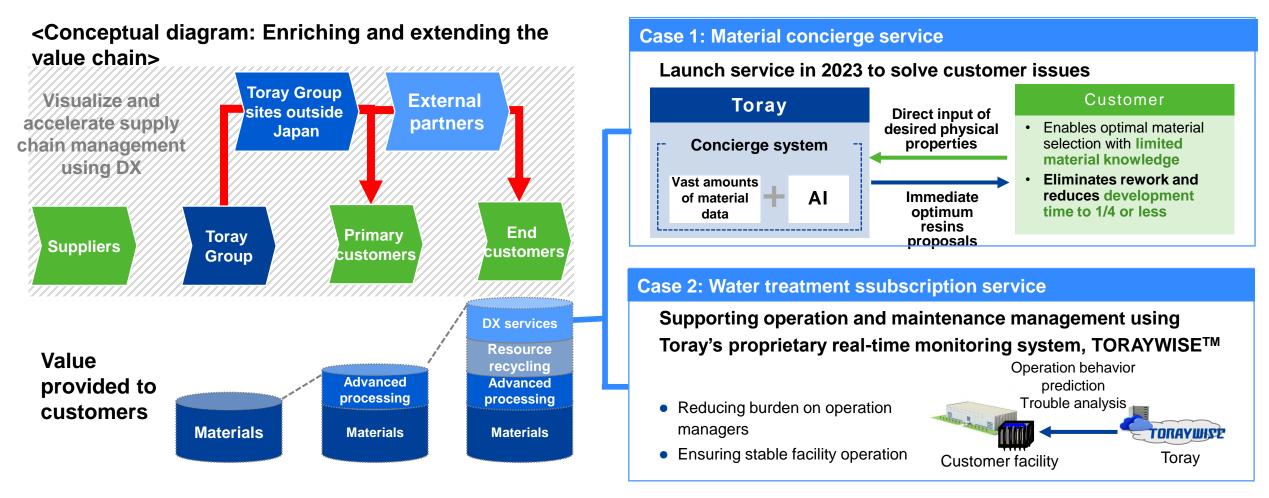
Major group companies (as of March 31, 2023)

	China	ASEAN	Americas	Europe	Korea	India
Fibers & Textiles	TSD TFNL THK TPN	ITS TTS CTX TTT ETX PFR TPJ PAB	TFA TAMX	TTEL Alcantara TTCE ASE APT	TAK	TID TKAT
l Resins	TPCH TPPH/Z	ITS TBPR TTS TPM	TREC TPA	TREU	TAK	TID



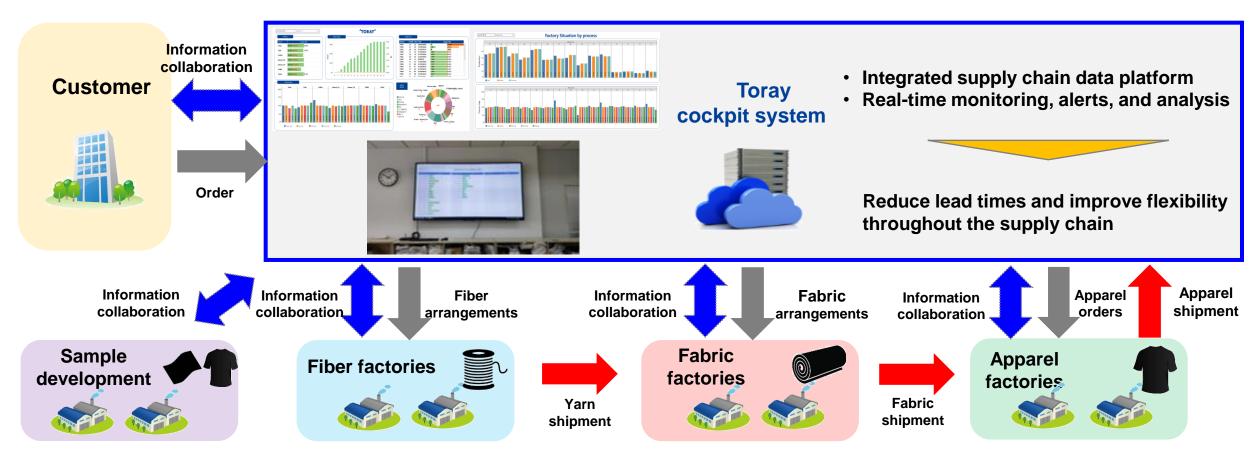
2. Enriching and Extending the Value Chain

Reform the business model by enriching and extending the value chain leveraging collaboration with overseas sites, external resources, and digital transformation (DX). Maximize value provided to customers and expand quantity sold.



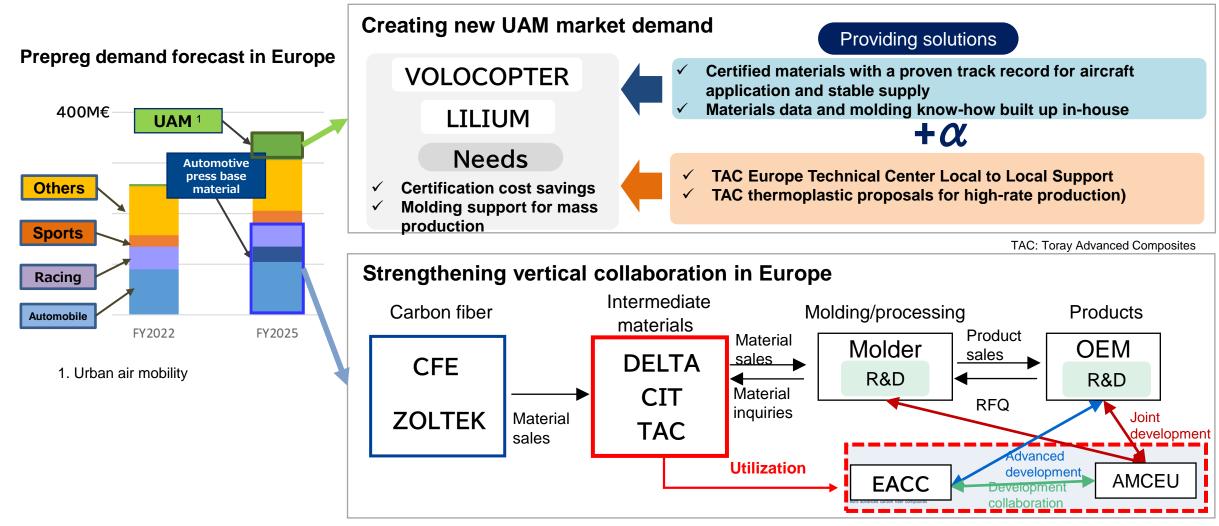
Example: Apparel Business Cockpit System

Introduction of a cockpit system to centrally manage customer orders and data dispersed in various sites, such as fabric and garment production schedules. Visualize data, act quickly on abnormalities, and improve prediction accuracy



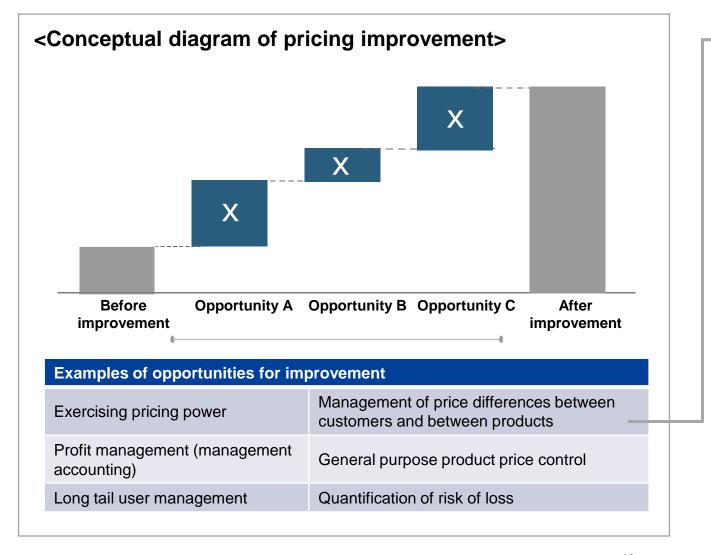
Example: Strengthening Collaboration in the European Prepreg Segment of the Carbon Fiber Composite Materials Business

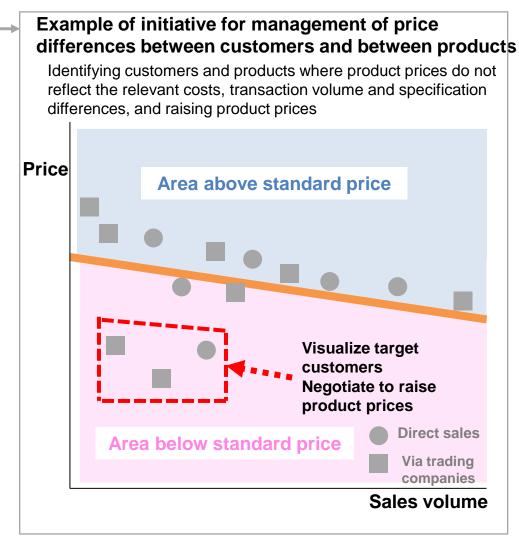
Boost competitiveness and maximize profit of prepreg business by sharing and utilizing the resources of group companies in Europe



3. Employing Strategic Pricing

Reflect the value created by the Toray Group appropriately in prices





Example: Activities to Promote Value of Functional Films for Semiconductor Processes

Improve the value of customers' products, contribute to cost reductions, and reflect the value created appropriately in prices

Finer semiconductor circuit board wiring by reducing foreign particles on film, contribute to better performance, and pass through to sales prices **Semiconductor Connection board** Film processing **Toray** manufacturers manufacturers manufacturers Reduce foreign Reduce inspection manhours particles on film Improve yield **Better semiconductor Enable finer wiring** performance of semiconductor **Examples of cost pass-throughs** circuit boards Reduce foreign particle A: +XX yen/m² Circuit board **Enlarged view of circuit** Reduce foreign particle B: + XX yen to XX yen Between Circuit circuits Reduce foreign particle C: + XX yen/m² 1/3 size



Reduce fine scratches:+XX to XX yen/m²

4. Enhancing Brand Value

Win on brand, not just on product specifications and price, by leveraging the brand as a driving force throughout the organization

Case study: Brand strategy for Ultrasuede™, an ultra-microfiber nonwoven material with a suede texture

Clearly define the business vision and customer commitment and implement the business strategy with all relevant employees working together using the vision and commitment as a guide

Ultrasuede™ brand value (research by Interbrand)

FY 2017 \neq 6.6 bil. \rightarrow FY 2022 \neq 34.2 bil. 5.2-fold increase

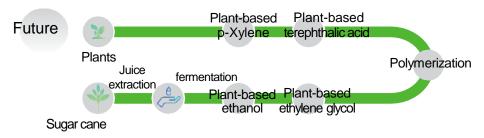
Vision

"To enrich society through empowered creativity and materials evolution"

The values we cherish

- A brand that represents Toray
- Leaving an enriched society for the next generation
- Connecting the world with Japan quality
- Infinite possibilities through technical innovation
- Enhancing value with customers

Initiative aimed at realizing approximately 100% plantbased raw materials in line with the vision



Major themes for future brand initiatives

Business sector	Theme of initiatives	
Performance chemicals	Using TORELINA™ PPS resin to strengthen the brand in the resins business	
Carbon fiber	Implementing a global brand strategy in the carbon fiber composite materials business	
Environment and engineering	Enhancing business value by providing high performance membranes and water purification systems under the "TORAY" brand name	

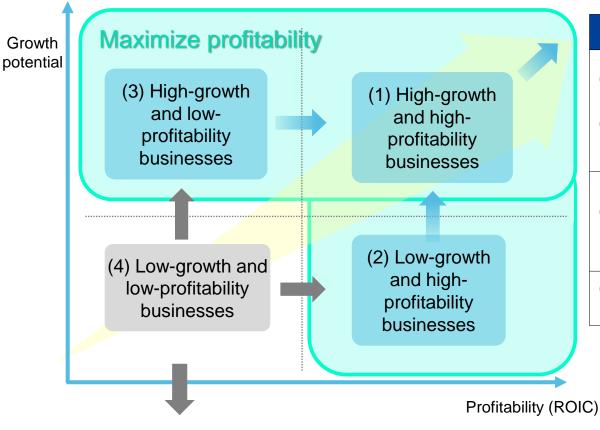


Improving Asset Efficiency

Efficient Management of Invested Capital

Identify growth potential/profitability (ROIC) in global, appropriate businesses (company, product, regional, application, etc.) Improve ROIC efficiently by investing management resources in growth business fields and maximizing profitability of existing tangible and intangible assets

Four categories for growth potential and profitability



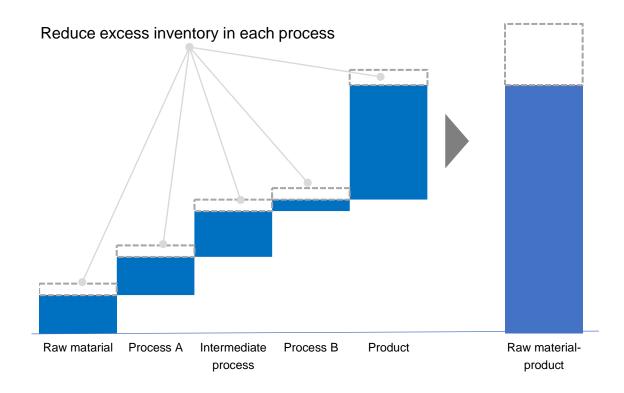
Categories	Major strategies	
(1) High-growth and high-profitability (3) High-growth and low-profitability	Expand business by investing resources in growth business fields (SI and DI business), providing cross-organizational solution proposals, and accelerating external collaboration	
(2) Low-growth and high-profitability	Increase value added through sales operational capabilities and combining diverse products, expand trade areas, and ensure loss management and improve costs	
(4) Low-growth and low-profitability	Continue structural reform and consider withdrawing	

Reducing Working Capital

Reducing working capital by advancing the level of supply chain management leveraging DX and through Cash Conversion Cycle Improvement (3C-i) activities

Advancement of supply chain management leveraging DX Optimize inventories by improving the accuracy of production and sales plans and making decisions using statistical models and AI forecasts **Statistical** Report Search/analyze Al models **ICT Simulation** Promoting DX with a focus on the frontlines **Supply-demand Production** Sales forecast adjustment plan **Business unit-based management** Improving accuracy and make decisions Inventory optimization → Reducing working capital

Conceptual diagram of inventory optimization





AP-G 2025 Target

Financial Targets for FY 2025

Achieving both business growth and greater profitability, while also improving asset efficiency

(Billion yen)

	FY 2022 result	AP-G 2025 FY 2025 target	
Revenue	2,489.3	2,800	
Core operating income	960	180	
Core operating margin	3.9%	6%	
ROIC ¹	2.7%	About 5%	
ROE	5.0%	About 8%	
Free cash flow (3-year cumulative total)	237.3	Positive	
D/E ratio	0.62	0.7 or lower (guideline)	

^{1.} Core operating income after tax / Invested capital (average of the balances at beginning and end of the fiscal year)

1. Improving profitability

Core operating income: 180 billion yen

- (1) Improve capacity utilization rate by expanding quantity sold with a focus on growth business fields and large-scale capital investment businesses
- (2) Raise prices and improve profitability by creating new value

ROIC: 5%

2. Improving asset efficiency

- (1) Raise the level of supply chain management and reduce working capital by maintaining Cash Conversion Cycle Improvement (3C-i) activities
- (2) Continually implement reengineering with a focus on low-growth, low profitability businesses



Main Strategies in Each Business

		Main strategies / major capital investments	KPI (core operating income) (billion yen) FY2022→FY2025
Fibers & Textiles		Developing environmentally friendly materials and rebuilding the recycling supply chain; expanding business and reaping the benefits of capital investment in growth fields such as ultra-microfiber nonwoven material with a suede texture and airbags; creating high added value with functional fibers; expanding Ultrasuede production facilities	51.2→64.0
S Ce	Resins & Chemicals	Increasing market share in China and the automobile market; expanding PPS polymer production facilities	
Performance Chemicals	Films	Expanding business of films for electronic component manufacturing processes; expanding production facilities for PET films used in MLCC manufacturing processes and OPP films for automotive capacitors	30.4→91.0
Pe	Electronic & Information Materials	Expanding business in OLED and semiconductor markets; expanding production facilities for electronic coating materials for OLED	
Carbon Fiber Composite Materials		Capturing market growth in both aviation and industrial/sports applications; expanding production facilities for industrial-use carbon fiber	15.9→36.0
Environment & Engineering		Securing top market share for reverse osmosis (RO) membrane market and expanding peripheral businesses	19.7→27.0
Life Science		Strengthening the business foundation by pursuing business development outside Japan, expanding indications, improving existing products, and ensuring thorough cost reductions	0.2→2.0
Total (consolidated)			96.0→180.0

Variance Analysis of Core Operating Income (Business Growth Factors) Basis for FY2025 Core Operating Income Target

Full-scale recovery in capital investment due to recovery in aircraft applications in the carbon fiber business, as well as business expansion in automobile and semiconductor markets. Advancement of products with high value added in the Fibers & Textiles, Resins, Films, and Carbon Fiber Composite Materials businesses. Anticipated increase in fixed costs due to operation of new facilities and upfront expenses for environmental

compliance.

(Billion yen))			
200			+20.0	
		+64.0		
150				
100				180.0
50	96.0			
0				
	FY 2022 result	Difference in quantity	Net change in price	FY 2025 target

Variance factor	Difference (billion yen)	Business strategies for increasing income	
Difference in quantity (Net of fixed cost variance) +64.0 mate has volum Resi [Res prod xEV [Film relea grow [Elec that Cart		Fibers & Textiles: Increase quantity sold of ultra-microfiber nonwoven material with a suede texture and airbags, where capital investment has been completed, reflecting the recovery in automobile production volume Resins & Chemicals: [Resins] Boost compound production sites by expanding PPS polymer production facilities; increase quantity sold by capturing growth of the xEV market in China [Films] Increase quantity sold by meeting higher requirement for release film for multi-layer ceramic capacitor (MLCC) and by capturing growth in mobile device and automotive markets [Electronic &Information Materials] Achieve full operation of facilities that have already been expanded in line with OLED market growth Carbon Fiber Composite Materials: Capture increasing demand in aircraft applications	
Net change in price	+20.0	Fibers & Textiles: Promote recyclable products with high-added - value (including "difference in quantity.") Performance Chemicals: Pass on increased costs to sales prices and execute pricing strategy Carbon Fiber Composite Materials: Advance high-added-value strategy through expansion of intermediate materials	
Total	+84.0		

Descriptions of predicted business results, projections and business plans contained in this material are based on assumptions and forecasts regarding the future business environment, made at the time of publication. Information provided in this material does not constitute any guarantee concerning the Toray Group's future performance.



TORAYInnovation by Chemistry

