

TORAY IR Day Medium-Term Management Program Project AP-G 2025 **Toray Group's Measures for Ultimate** Value Creation

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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

Seizing Profit Opportunities Toray Group Growth Business Fields

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

Growth Business Fields under AP-G 2022		Growth B	usiness Fields under AP-G 2025	Revenue from Growth Business Fields		
			Products that accelerate measures to counter climate change	Trillion Yen 5	20%	23% Gross profit margin of all growth business fields
GR Business			 Products that facilitate sustainable, recycling-based use of resources and production 	4 3	13%	15% Gross profit margin of other business fields
	7	Innovation Business (*1)	 Products that help provide clean water and air and reduce environmental impact 	2 1	Growth business fields	Growth business fields
LI Business		*1: Group of businesses or products that can help realize the Toray Group Sustainability Vision	 Products that help deliver better medical care and hygiene for people worldwide 	0 — (FY)	2022 Forecast tment in growth	59% 2025 Target
GR Business: Green Innovation Business LI Business: Life Innovation Business	New	DI Business Digital Innovation Business	Materials, equipment, technologies, and services that help improve convenience and productivity by supporting the widespread adoption of digital technology		siness fields	450 Billion Yen nent 270 Billion Yen 180 Billion Yen
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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



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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.



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



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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%	
	1	I. 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)



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.





Case 2: Water treatment ssubscription service

Supporting operation and maintenance management using Toray's proprietary real-time monitoring system, TORAYWISE[™]

- Reducing burden on operation managers
- Ensuring stable facility operation





Refining Global Sales Operational Capabilities 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





Refining Global Sales Operational Capabilities 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



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3. Employing Strategic Pricing

Reflect the value created by the Toray Group appropriately in prices



Employing Strategic Pricing 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



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 \pm 6.6 bil. \rightarrow FY 2022 \pm 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 guality 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



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



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%	6
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 	

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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
Performance Chemicals	Resins & Chemicals	Increasing market share in China and the automobile market; expanding PPS polymer production facilities	
	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 O	Electronic & Information Materials		
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	
Life Science		Cience Strengthening the business foundation by pursuing business development outside Japan, expanding indications, improving existing products, and ensuring thorough cost reductions	
Total (consolidated)			96.0→180.0

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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)					Variance factor	Difference (billion yen)	Business strategies for increasing income
200			+20.0				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
150		+64.0	_		Difference in quantity (Net of fixed		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
100 50	96.0			180.0	cost		[Films] Increase quantity sold by meeting higher requirement for release film for multi-layer ceramic capacitor (MLCC) and by capturin 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
0	- 96.0		1		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
0	FY 2022 result	Difference in quantity	Net change in price	FY 2025 target			Carbon Fiber Composite Materials : Advance high-added-value strategy through expansion of intermediate materials
					Total	+84.0	

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