

The Mitsubishi Chemical Holdings Group Mid-term Management Plan



The Mid-term Management Plan 2010







May 13, 2008

Yoshimitsu Kobayashi President Mitsubishi Chemical Holdings Corporation

Good **Chemistry** for Tomorrow Creating better relationships among people, society, and our planet.

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The forward-looking statements are based largely on information available as of the date hereof, and are subject to risks and uncertainties which may be beyond company control. Actual results could differ largely, due to numerous factors, including but not limited to the following: Group companies execute businesses in many different fields, such as petrochemicals, carbon and inorganic products, information and electronics, pharmaceuticals, polymers and processed products, and these business results are subjected to influences of world demands, exchange rates, price and procurement volume of crude oil and naphtha, trend of market price, speed in technology innovation, National Health Insurance price revision, product liabilities, lawsuits, laws and regulations.

Mitsubishi Chemical Holdings Group Motto

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Mitsubishi Chemical Holdings Group Member will,

Under a mission to contribute to our Group,

Strive to provide safety and comfort, be environmentally conscious, and improve human health

To win further trust worldwide.

Apt:

[Adjective] Appropriate

-sis:

[Suffix] From Greek, indicates that something is a behavior, process, status, condition, etc.

Agility

Be alert, act quickly

Principle

Sharing theories, principles

Transparency

Transparency, accountability and compliance

Sense of Survival

A sense of being on the verge, a sense of crisis

Internationalization

Enhancing our performance within the global market

Safety, Security & Sustainability

Ensuring safety in manufacturing, trust in quality, information security and environmental consciousness

Agenda

- Review of the former mid-term management plan, KAKUSHIN Plan: Phase 2 (FY2005-2007)
- The new mid-term management plan,

APTSIS 10 (FY2008-2010)

"Growing, Innovating, and Leaping Ahead"

- 1. What we aspire to be in 2025, and should be in 2015
- 2. Basic strategies of APTSIS 10
- 3. Increase shareholder value
- Increasing corporate value sustainably laying the foundation for the "Institute for KAITEKI Biosphere" (tentative)

FY2005-2007: April 1, 2005 – March 31, 2008 FY2008-2010: April 1, 2008 – March 31, 2011

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Review of the Former Mid-term Management Plan KAKUSHIN Plan: Phase 2 (FY2005-2007)



Basic Strategies and Results

Steady achievement of management reforms

Core Strategies

Portfolio Management with Emphasis on Sustainable Growth

- ➤ Focus on selected businesses and allocate strategic resources for further growth
- R&D investment to create new values and to develop proprietary technologies

Integration of Group Strengths

- Maximize group synergy
- > Prepare for further alliances

Pursuit of Further Growth and Improvement of Financial Condition

- Achieve both growth and balance sheet management
- ➤ Improve financial condition

Strategic Initiatives

V

Establish holding company structure (Mitsubishi Chemical Holdings Corporation) (Oct. 2005)



Merger of Mitsubishi Pharma Corporation and Tanabe Seiyaku Co., Ltd. (Oct. 2007)



Make Mitsubishi Plastics, Inc. a wholly-owned subsidiary and consolidation of functional products businesses (Apr. 2008)



Identify R&D focus areas

Numerical Targets of *Phase 2* FY2007 (Plan)

FY2007 Actual Results



Operating Income

≧¥140 billion

¥ 125 billion**



ROA*

≥ 5.5 %

8.5 %



D/E Ratio *2

≦1.5

0.99

^{**}Operating income target was not achieved due to worsening in business conditions for the terephthalic acid, the Kashima fire, and delays in establishing and developing the performance products market.

X1 ROA = Net income before tax / Average of total assets at beginning and end of fiscal year

^{※2} D/E ratio = Total debt / Shareholders' equity



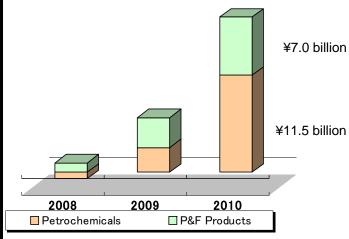
Major Investments

Investments will bear fruit over the next three years

Investment (CAPEX and Investments & Loans): ¥ 430 billion/3 yrs.

Segments (Tot. Inv.)	Major Investments	FY2010 Operating Income (Plan)
Petrochemicals [Including carbon-related products] (¥190.0 billion) Large Investment ¥133.0 billion	Capacity expansion PTMG (China) Polycarbonate (Kurosaki/China) Polypropylene (Kashima) New PP compounds (China/Thailand/India) Performance polymers facil. expansion (US) etc. (Terephthalic acid facil. Expansion (India *)) Diversity of feedstocks Ethylene, etc. (Mizushima)	¥11.5 billion [*]
Performance and Functional Products (¥149.0 billion; including ¥34.5 billion for MPI TOB) Large Investment ¥29.0 billion	Business expansion	¥7.0 billion
Health Care (¥41.0 billion)		

Earnings expected from major investments



Not including 2nd PTA investment in India.



Remaining Tasks



- Enhancement of frontline capabilities (accidents and compliance)
- Overseas business expansion
- Acceleration of new business development



- Stable profitability
- Strategic restructuring of terephthalic acid business
- Measures to address the 2008-2010 issue



- Product and business lifecycle management (growth strategy)
- Creation of next generation's growth businesses (innovation strategy)
- Early realization of New Mitsubishi Plastics integration benefits



- Early realization of Mitsubishi Tanabe Pharma merger benefits
- Acceleration of overseas business development
- Early resolution of the hepatitis C problem

Overview of the New Mid-term Management Plan

APTSIS 10

(FY2008-2010)

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What We Aspire to Be in 2025, and Should Be in 2015



Business Environment towards 2025

"Climate Change and Natural Resources"

- Global warming/climate change
- Depletion of metal and other resources
- Pollution and shortages of water resources

Companies that do not make positive contributions in terms of resource usage and environmental protection will not survive.

"Health Care"

Declining birth rate (especially in Japan) & aging population Rising medical needs Pention funds crisis

The era of "mega pharma" is giving way to a new business model.

"Economy & Markets"

- ●Rapid Growth of BRICs (mainly China and India) and other economies
- Weakening of US hegemony and rise of coexistence of civilizations with differing values and ways of life
 - Focus shifting from market economy principles to discipline, public benefit, and environmental consciousness

All business sectors are undergoing major restructurings on an international scale.

Aspiration for 2025

The Mitsubishi Chemical Holdings Group will be a global leading company based on "Good Chemistry*"

Three decision criteria for corporate activities

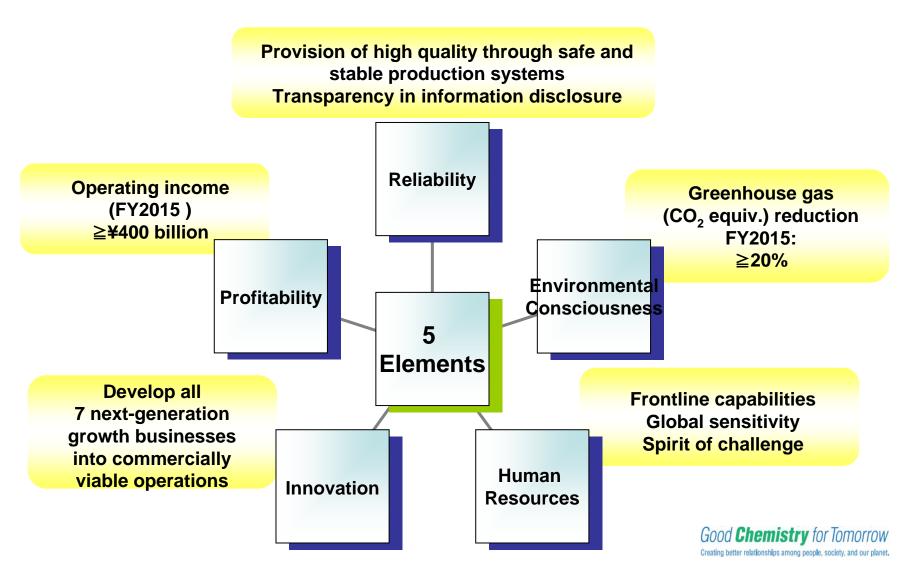
Sustainability
Health
Comfort

*"Good Chemistry for Tomorrow" expresses Mitsubishi Chemical Holdings Corporation's approach which we will continue to correspond to the needs of industry and society, creating better relationships among people, society and our planet.



What We Should be in 2015

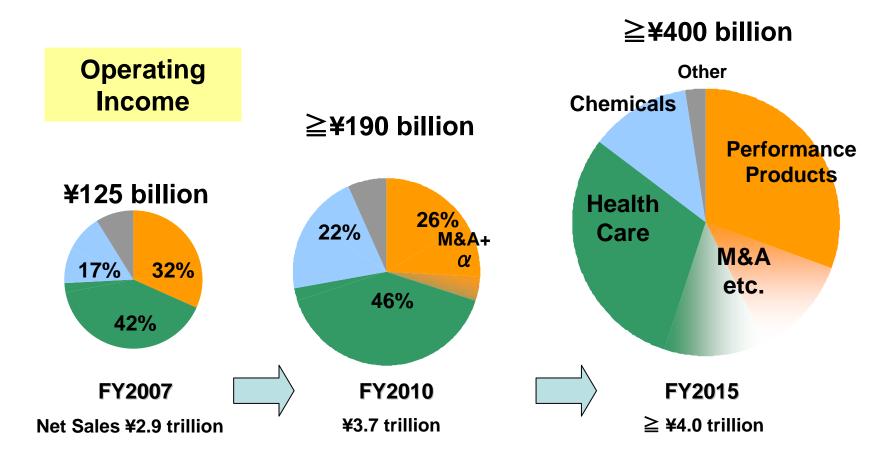
Five requirements for a global leading company





Profit Structure in 2015

Shift to high-performance products and high value-added businesses





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Basic Strategies and Measures



Management Benchmarks

Key numerical targets for FY2010

Operating Income ≥¥190 billion

(Including ¥20 billion contingencies)

ROA (EBIT/Total assets) ≥6%

Contribution to reduce CO₂ emission 20% reduction *

* Unit energy consumption

Other targets

ROE ≥ 8%

EBITDA ≥ ¥350 billion

Since emphasis is being placed on growth, the D/E ratio (financial stability measure) has not been established as a key indicator.

Assumptions

Variables

Assumptions

Economic conditions

Naphtha price

Forex

Intensifying competition in advanced materials

Drug price revision in Japan

2008-2010 petrochemical issue

World economic downturn

¥68,000/kl

¥105/\$

Establishment of 7 next-generation growth businesses

Every other year

Production increases, particularly in the Middle East, will cause excess supply

Business Portfolio

Categorized by profitability, market superiority, and market attractiveness

◆Performance Products
◆ Health Care
◆ Chemical Products

Next-Generation Growth Businesses (Innovation Strategy)

7 Next-Generation **Growth Businesses**

- Solid-state lighting
- Li-ion battery materials for HEVs
- **Next-generation displays**
- Chemical components for automobiles
- Bio-based polymers
- Organic photovoltaics modules
- Personalized medicine

Existing Growth Businesses (Growth Strategy)

- Electronics Applications Recording media, imaging, semiconductor-related materials and services, high performance polyester film, electronic device components
- Designed Materials Food ingredients, carbon fiber composites, alumina fibers, performance packaging film
- Health Care **Pharmaceuticals**
- Chemicals C4 chemicals, high performance graphite
- Polymers Polycarbonate and bisphenol-A, polypropylene, performance polymers



Businesses to be Restructured

Terephthalic acid and others

Stable Businesses

- Blast furnace coke
- Olefins and aromatics
- Performance chemicals, etc.

Basic Strategy

Concept: "Growing, Innovating, and Leaping Ahead"

Growing

Growth Strategy

Shift to high-performance products and high value-added businesses

Efficient product/business life cycle management

Innovating

Innovation Strategy

Nature and accelerate 7 next-generation growth businesses

Leaping Ahead

Strategic investment for alliances and M&A

Achieving Growth Strategies

Shift to high-performance products and high value-added businesses Efficient product and business lifecycle management

- Performance Products
 - Maintain and further expand existing global businesses
 - Expand in only 1 and/or No.1 niche businesses in growing markets
- Health Care
 - Early realization of MTPC* merger benefits
 - Steady progress in key development projects at MTPC*
 - Development of business infrastructure to be a global research-driven pharmaceutical company
- Chemicals
 - Shift to high performance products
 - Realizing results of investments executed in KAKUSHIN Plan: Phase 2

* Mitsubishi Tanabe Pharmaceutical Corporation

Resource Investment

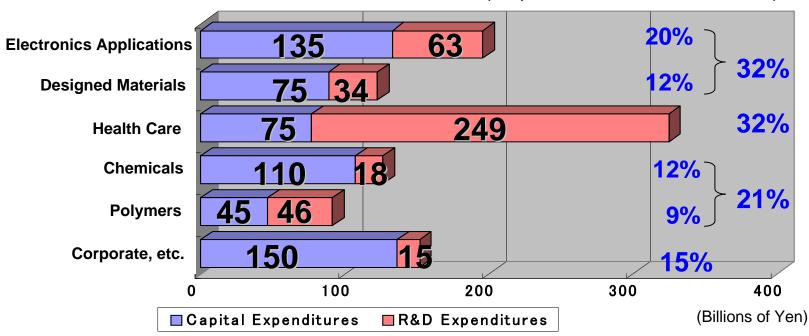
Active investment will be pursued to realize "Growth and Innovation"

CAPEX and investments & loans: ¥590 billion/3 yrs.

(Compared to KAKUSHIN Plan: Phase 2: 1.4x)

R&D expenditures: ¥425 billion/3 yrs.

(Compared to KAKUSHIN Plan: Phase 2: 1.4x)



Notes: Investment figures are based on decision based.

R&D expenditures for 7 next-generation growth businesses are included in each segment.



Leaping Ahead

To strive for active business expansion, resources will be strategically invested in alliances and M&A Available funds: ¥250 billion (FY2008-2010)

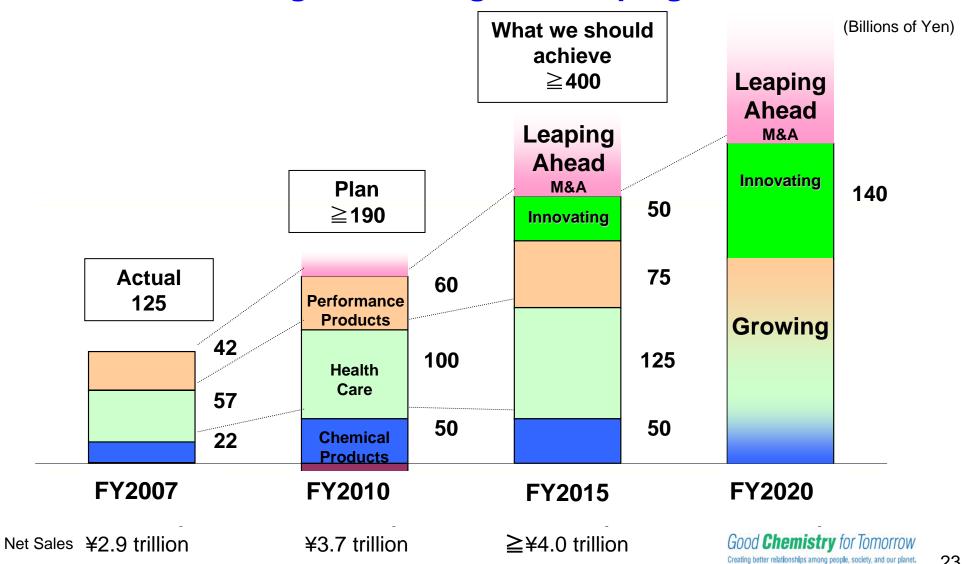
Allocation to:

- Existing growth businesses
- Performance products business (including devices)
- **♦** Global development



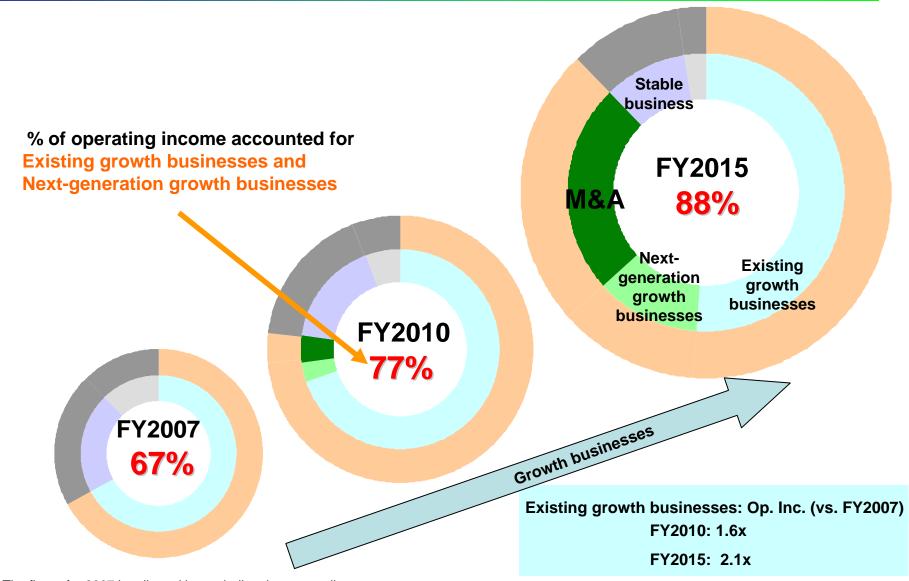
2015 and Beyond (Operating Income)

Growing, Innovating and Leaping Ahead





Portfolio Earnings Structures



Note: The figure for 2007 is adjusted by excluding the extraordinary loss of \pm 8.2 billion related to the Kashima accident.

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Performance Products



Performance Products

Profit maximization through strengthening of ties among technology clusters, and value chain management

Growth Strategy 1:

Maintain and expand businesses by efficient product-business lifecycle management

Growth Strategy 2:

Expand only 1 and/or No.1 niche businesses

Innovation Strategy:

Create next-generation growth businesses, in part by expansion into device markets

ADVANCED PRODUCTS

SPECIALTY CHEMICALS



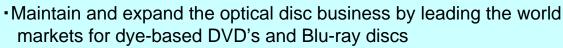
Growth Strategy (1)

Maintain and further expand in existing global businesses

Electronics Applications

Recording Media

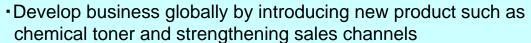
No.1 global market share in optical recording media



 Accelerate entry into the market for non-optical recording media (Portable HDD and Flash Memory) by taking advantage of the "Verbatim" brand name (The World's Top CD and DVD recordable brand)

Imaging

No.1 global market Share for component Supplier



 Maintain and expand competitive advantage in the area of digital printing

High-Performance Polyester Film

No.1 global market share in optical PET film

- Maintain and expand technical and quality superiority in the market for FPD film
- Expand business area by developing new applications
 (Photovoltaic components, high performance process film)

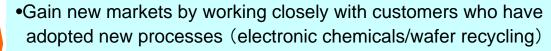


Growth Strategy (2)

Expand in only 1. and/or No.1 niche businesses in growing market

Electronics Applications

Semiconductor-related materials and services



•Maintain No.1 global share. Steady production enhancement(synthetic silica)

Electronic device components



- •Expand sales in the East Asian market
- •Expand housing and material applications for thin cell phones

Designed Materials

Alumina fibers
Pitch-based carbon fiber
composites



- •Maintain global No.1 share by complying to environmental regulations
- Expand global No.1 share by broadening applications

Food ingredients



 Expand business by leveraging emulsifier know how and to develop business in China

High performance packaging films



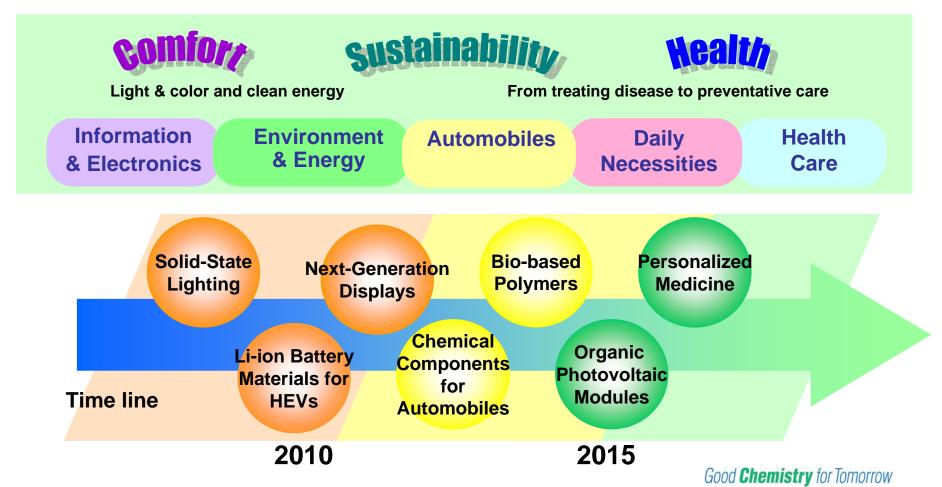
- •Expand high barrier film market share
- •Develop new applications (photovoltaic components, etc.)



Innovation strategy

7 next-generation growth businesses

Toward growth markets



Creating better relationships among people, society, and our planet.



Innovation Strategy

Generate next-generation growth businesses by delivering materials and devices for future global markets

Solid-state lighting Next-generation displays

 Apply strengths in materials know how to effect rapid entry into device markets and expand profitability (also consider alliances)

Lithium-ion battery materials for HEVs

 Accelerate all four major component businesses by working closely with customers and assuring safety and fuel efficiency

Chemical components*
for automobiles

 Business and technology development for light weight automobiles by CFRP composites, plastic glazing and exterior sheet

Organic photovoltaic modules

• Expand the existing non-organic photovoltaic material business.

Bio-based polymers*

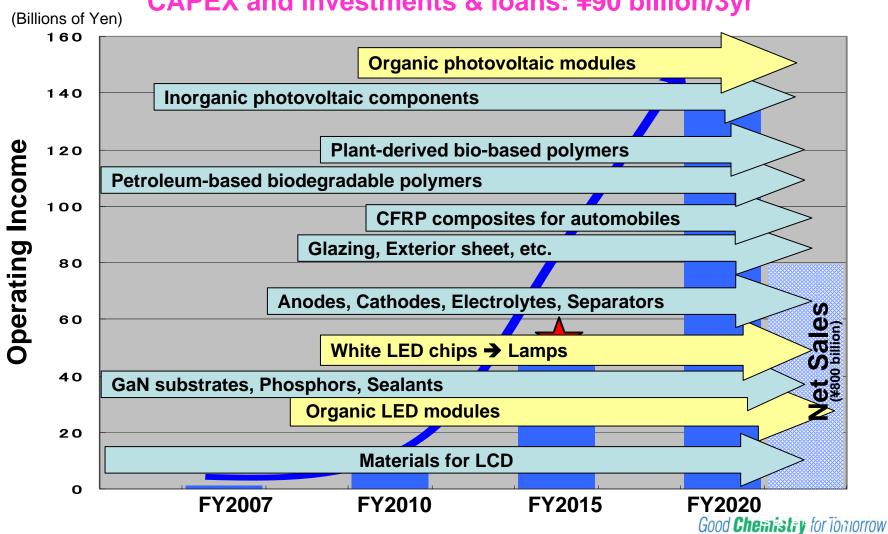
- Establish business infrastructure and enter the market with organic photovoltaic prototype beginning in 2010
- Commercialization of "GS Pla" with plant-derived monomer

^{*} Part of Chemicals business domain's Innovation Strategy as well, see P 43



Focused Investments for Innovation Strategy





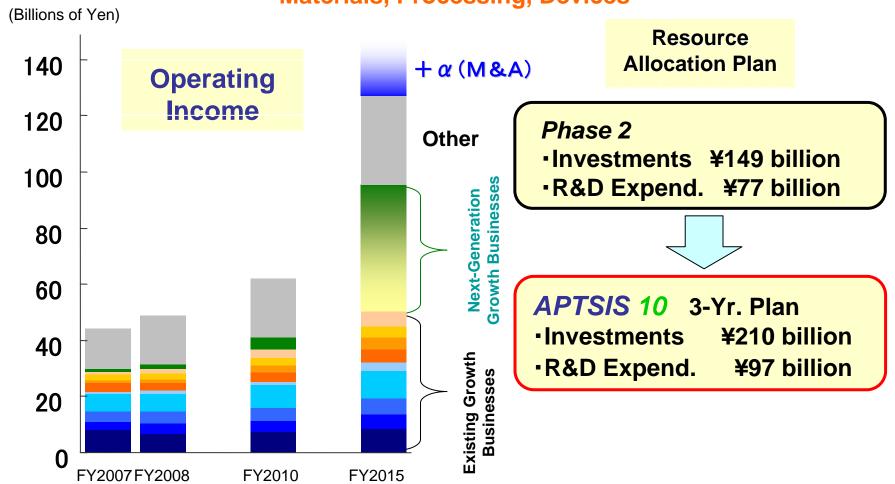
Creating better relationships among people, society, and our planet.



Operating Income and Resource Allocations

2015 Operating Income Expansion Objectives

- Materials, Processing, Devices -



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Health Care



Health Care

Strengthen business foundation for a global research-driven pharmaceutical company as a core of our health care business

Growth strategy

- Early realization of MTPC* merger benefits
- Steady progress in key development projects at MTPC*
- Development of business infrastructure to be a global research-driven pharmaceutical company

Innovation strategy

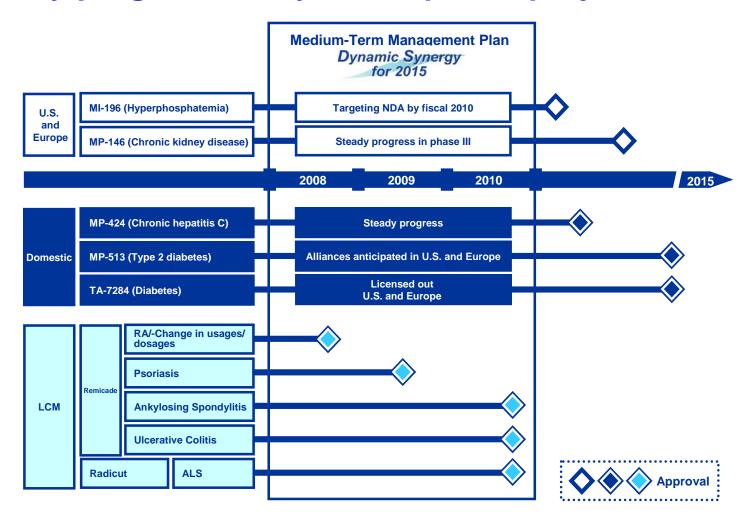
Progress in our roadmap toward personalized medicine through synergies of the MCHC Group.

*Mitsubishi Tanabe Pharma Corporation



Growth Strategy

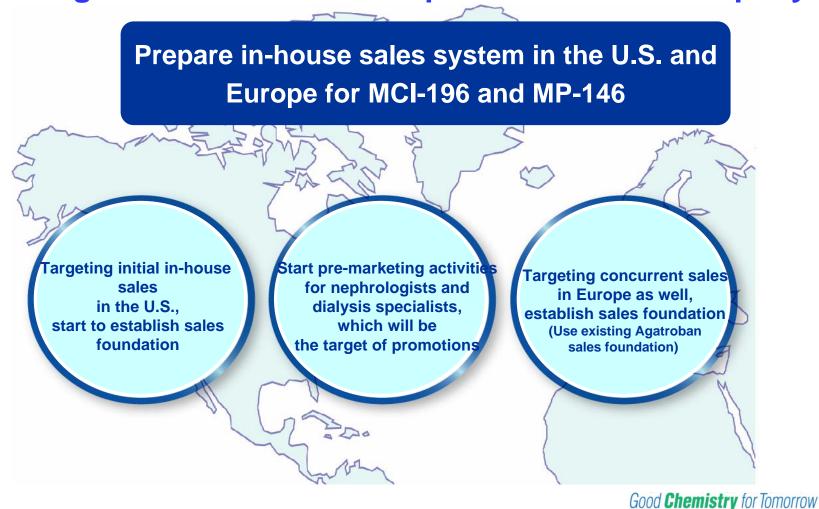
Steady progress in key development projects at MTPC*





Growth Strategy (2)

Development of business infrastructure to be a global research-driven pharmaceutical company





Innovation Strategy

Progress in our roadmap toward personalized medicine through synergies of the MCHC Group

Moleculence Corporation:

Biomarker discovery

Mitsubishi Chemical Group Science and Technology Research Center, Inc.

Analytical technologies

Drug discovery utilizing biomarkers

Mitsubishi Tanabe Pharma Corporation

Lifecycle management utilizing biomarkers

Realizing
Targeted
Medicine



Increase satisfaction with medical care through the realization of personalized medicine

Biomarker Discovery

Mitsubishi Chemical Medience Corporation

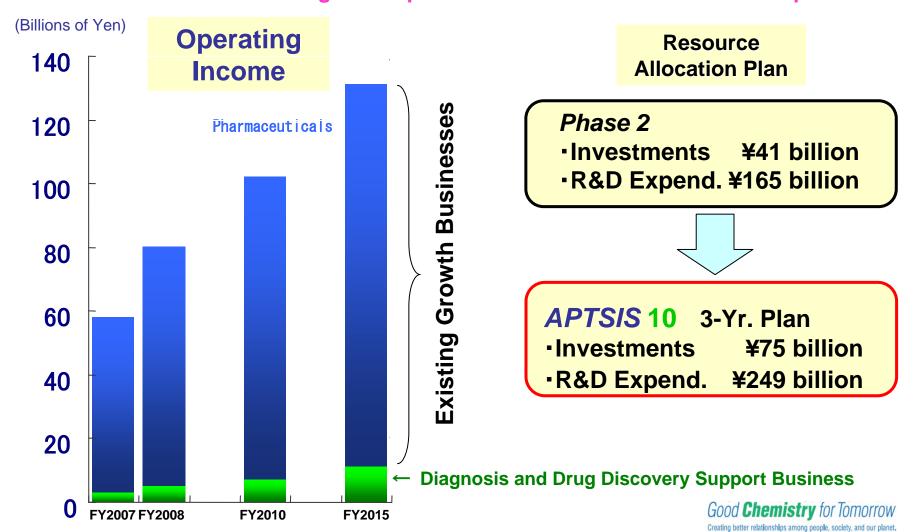
Diagnostic reagents & instruments



Operating Income and Resource Allocation

2015 Operating Income Expansion Objectives

- Acceleration of New Drug Development and Overseas Business Development -



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Chemicals

Chemicals

Shift to high-performance products

(Corresponding to 2008-2010 issue)

Growth Strategy 1:

Shift to high-performance products

High performance graphite, C4 chemicals,

Polycarbonate · Bisphenol-A, Polypropylene,

High performance polymer

Growth Strategy 2:

Realizing results of investments executed in KAKUSHIN Plan: Phase 2

Innovation Strategy

Create new environmentally-friendly material

Stable Businesses

Businesses to be Restructured



Growth Strategy (1)

Shift to high-performance products

High performance graphite, C4 chemicals, Polycarbonate, Bisphenol-A, Polypropylene, High performance resins

■High performance graphite

Expand sales in graphite electrodes and melting pot

■Polycarbonate (incld. compounds)

Expand automobile, electric/electronic and other high performance area

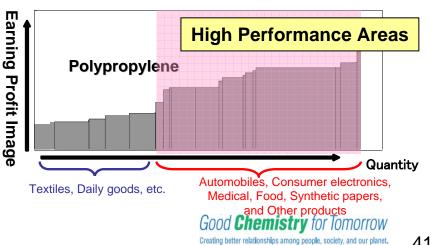
FY2007 FY2010 FY2015 High-performance 27% → 30% → 33% Product ratio

Earning Profit Image **Polycarbonate High Performance Areas** Quantity Discs & daily necessities, etc. Alloys and Compound electronic. medical automobile products films products

■Polypropylene

Expand automobile, food, medical and other high-performance area

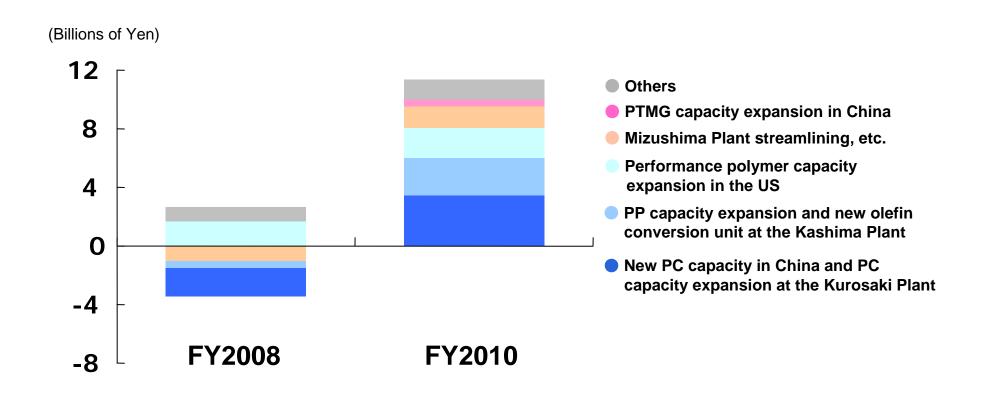
FY2010 FY2015 FY2007 High-performance 36% 50% → 65% Product ratio





Growth Strategy (2)

Realizing results of investments executed in *KAKUSHIN Plan: Phase 2*





Innovation strategy

Create new environmentally-friendly materials

Chemical components for automobile

Business and technology development for light weight automobiles by CFRP composites, plastic glazing, and plastic exterior body panels

Bio-based polymers

Commercialization of "GS Pla" with plant-derived monomer

Process technology and business development of isosorbide polymers

Stable Businesses and Business to be Restructured

Stable Businesses

Blast furnace coke

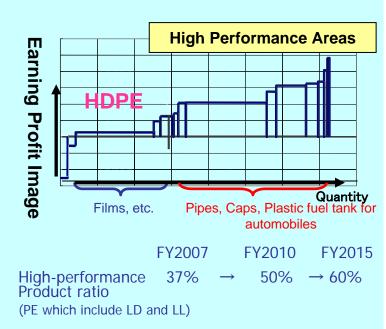
Maintain stable profit by investing and meeting environmental requirements and stable production

Petrochemicals-related

Shift polyethylene to a higher profitable applications (e.g. HDPE)

Select and focus chemical derivatives (asset-light)

Reform chemical complex by alliances and collaboration, to strengthen its competitiveness by focusing on core derivatives



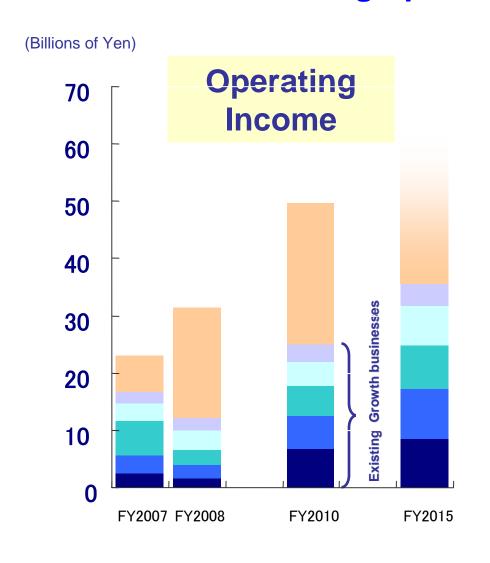
Businesses to be Restructured

Business restructuring of terephathalic acid by alliances, collaboration, and reorganization



Operating Income and Resource Allocation

Shift to high-performance products



Resource Allocation Plan

Phase 2

- Investments ¥190 billion
- •R&D Expend. ¥39 billion



APTSIS 10 3-Yr. Plan

- Investments ¥155 billion
- -R&D Expend. ¥64 billion



Operating Income by Segments

(Billions of Yen)

		FY2007	FY2008	FY2010
Business Domains	Segments	Actual	Forecast	Plan
Performance Products		41.9	47.0	61.0
	Electronics Applications	31.9	33.0	39.0
	Designed Materials	10.0	14.0	22.0
Health Care		57.2	81.0	100.0
	Health Care (MTPC)	-	75.0	95.0
	Health Care (Other)	-	6.0	5.0
Chemicals		22.2	34.0	50.0
	Chemicals	10.5	24.0	29.0
	Polymers	11.7	10.0	21.0
Others		13.6	12.0	16.0
Corporate		▲ 9.9	▲ 16.0	▲ 17.0
Subtotal		125.0	158.0	210.0
Contingencies		-	-	20.0
Total		125.0	158.0	190.0



Overseas Businesses



Overseas Business Expansion

Overseas Sales Proportion: from 27% (FY2007), to 30% (FY2010 target)

Strengthen Global Sales Channels

- Optical disc, OPC & toner sales expansion
- Construction of global drug sales and pharmacovigilance system

Utilize Global Manufacturing Sites

- •Expand sales of high-performance film using existing polyester film marketing channels
- •3 regional production site for polymer components

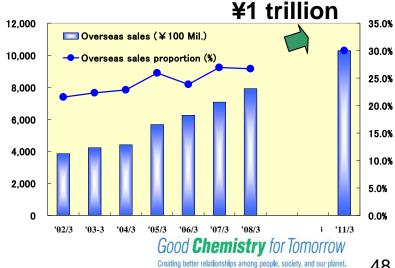
Grasp Growing Asian Market

- Active grip of market trend and needs, using China and Indian as an information hubs
- •C4 chemicals and polycarbonate sales expansion

Expand Overseas Businesses with Customers

 Electronic chemicals, display materials, and alumina fiber, "MAFTEC"

(100 millions of Yen)



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Increase Shareholder Value and Increasing Corporate Value Sustainably

Increase Shareholder Value

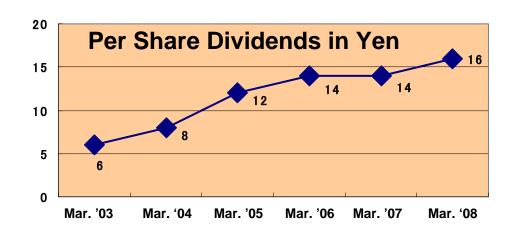
Increase shareholder value by increasing corporate value

Shareholder Returns Dividends

- Dividends will be paid to the extent possible based on the need for internal reserves and a consideration of consolidated results.
- •The dividend payout ratio is intended, but not fixed at 30% or more of profits, but stability (maintenance or increase in dividends per share) of dividends will also be emphasized.

Treasury Stock Purchases

 Treasury stock purchases will be flexibly implemented based on overall considerations of factors like capital usage and share price.





Strengthen Corporate Foundation

Good **Chemistry** for Tomorrow **Philosophy** Creating better relationships among people, society, and our planet. Sustainability, Health, and Comfort Criteria **RC** Activities (Environmental Compliance **Risk Management** and safety) **Fundamentals** Social **Protection of Disclosure Contributions Human Rights** Establishing uniformity and improving the level of Internal **Controls Group Internal Controls**

Practice
Responsible Conduct

Secure and Nurture People Power



Trusted Manufacturing Production System

Each person is an irreplaceable individual

Strengthening of Frontline Manufacturing Capabilities

Strengthening of production capabilities facility and process SA/SR

Fabrication and assembly technology/ processing technology

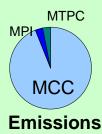
Secure and Nurture People Power

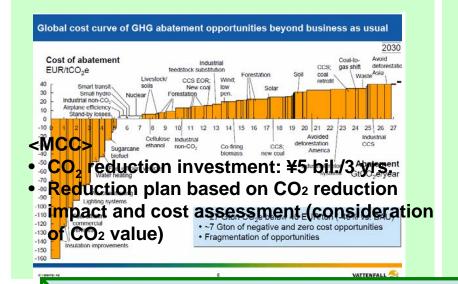
Reaffirmation of Safety as the No.1 Priority

Greenhouse Gas (CO2 equivalency) Reduction Efforts

MCHC Group Efforts Absolute Reduction

- Process efficiency maximization
- Cooperation among manufacturers
- Creation of innovative processes

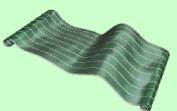




Contribute to society together with customers Greater reductions

through social contributions

Widen perspective to include product life cycles, and maximize contributions to society



- Organic photovoltaic modules
- High-efficiency lighting
- Weight-reduced vehicles
- ·Bio-based polymers, etc.

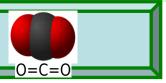
The MCHC Group is uniquely well-positioned to harmonize the ordinarily incompatible goals of delivering comfort and reducing global warming.

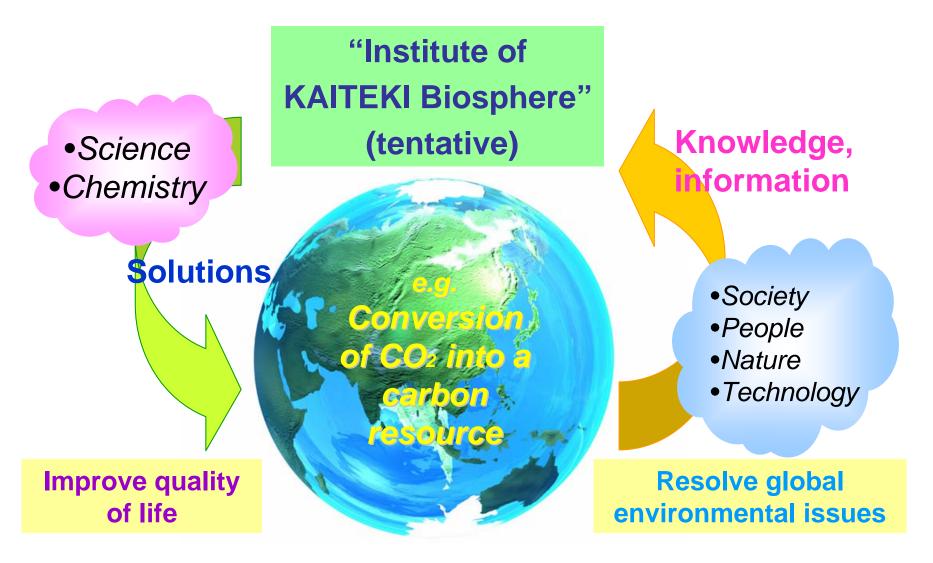




Ultimate Challenge:

CO₂ carbon resource conversion (artificial photosynthesis)





Establishment targeted for April 2009



Summary

in 2015

Good **Chemistry** for Tomorrow

Creating better relationships among people, society, and our planet.

What we aspire to be in 2025

What we should be

Global Leading Company Working to Achieve Sustainability Health Comfort

FY2008-2010 strategy

APTSIS 10

2010

2015

2025

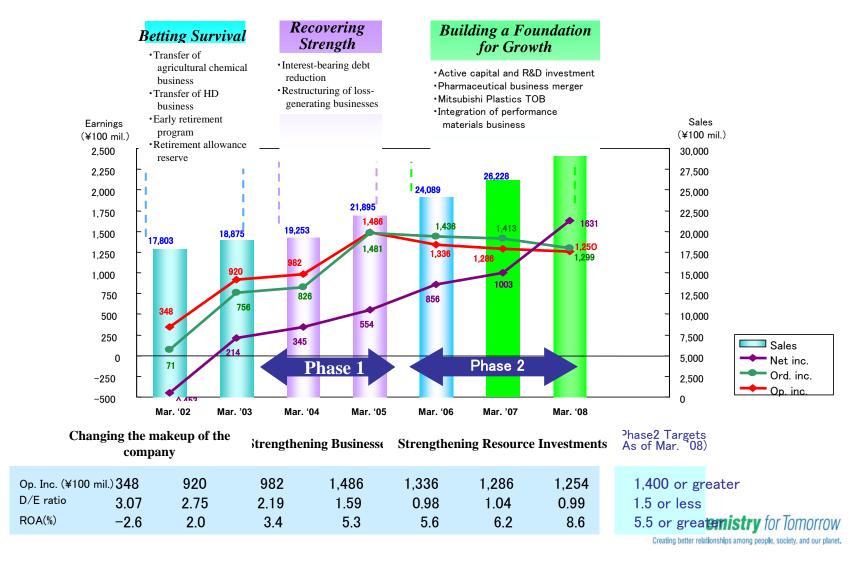
"Institute of KAITEKI Biosphere" (tentative)

Reference



Positioning of KAKUSHIN Plan: Phases 1 & 2

Fundamental financial strengthening and growth measures





KAKUSHIN Plan: Phase 2 Business portfolio

(Launch/Decision in FY2005-7)

ſ				Major matters	
			Petrochemicals	Performance Products	Health Care
	Growth Str (Alliance e	.	Advanced Plastic Compounds (merger)	Mitsubishi Plastics TOB New Performance Materials company (Unification)	Tanabe Seiyaku Co.,Ltd. And MPC merger 3 healthcare business companies establishment MP Healthcare Venture Management Inc ZOEGENE Corp.
	Expansion of Capacity	Dom estic	PP (Kashima plant) PC (Kurosaki plant) Ethylene (Mizushima plant) Polyethylene (Oita)	BD (Mizushima), Chemical toner (Yokkaichi) Materials & components for LCDs (Polyester films, carbon fibers, color resists, phosphors) Alumina fibers for automobile Li-ion battery material for automobile (Electrolytes: Yokkaichi, Anodes; Mizushima)	ULSO® approved additional indication OMEPRAZON® approved additional indication Medway® approval REMICADE® approved additional indication Hebsbulin ® -IH for intravenous PATHFAST® launch Tanabe Seiyaku Hanbai Co., Ltd. (ets.)
	or Increasing of Efficiency	Over Seas	PTA (India) PC、BPA(China) Performance polymer (US) PP compound (China, India and Thai) PTMG (China)	MCC India Verbatim MKT India PVT Ltd DVD DL(Singapore) OPC(US & Singapore)	Mitsubishi Pharma Deutschland GmbH Launch ARGATRA® Mitsubishi Pharma (Guangzhou) Co., Ltd establishment Mitsubishi Pharma Research and Development (Beijing) Co., Ltd. establishment PATHFAST® launch in US and Europe
	Acquisition Integration		PP compounds MYTEX Japan Polyethylene consolidated subsidiary Japan Ethanol Co.Ltd	Japan Epoxy Resign co.,ltd : 100% Food ingredients business SmartDisk portable HDD (US) Near UV LED(technology / equipment)	
	Transfe	er	Dia-Nitrix Co.,Ltd: Minor affiliate of MC0	· }	IC-Vec Ltd, Danaform, Inc.
	Withdra	wal	Soft Alkylbenzene、 Yuka Seraya PVT Ltd(SM)、Melamine Sasol Dia Acrylates (AA/AE)		Japan Genome Solutions, Inc.

Creating 58



New Information Disclosure Scheme

New segmentation as of FY2008

Key Segment Change: Moved carbon products business from Performance Chemicals to Chemicals

Former Segmentation				New Segmenta	ation as of April 1, 2008		
Business domains	Segments				Business domains	Segments	¥100 mil.
		FY20	07 Actu	al		FY2007 Actual based	on New Segments
Petro- chemicals	Petroch	nemicals	92		Performance	Electronics Applications	319
Performance and	Performance and	Performance Products	361		Products	Designed Materials	100
Functional Products	Functional Products	Functional Products	192	7	Health Care	Health Care	572
Health Care					Chemicals	Chemicals	105
nealth Care	Health Care Health Care		572			Polymers	117
	Oth	ers	132			Others	136
	Corp	orate	-99			Corporate	-99
		Total	1,250			Total <i>Good Chemi</i>	1,250 istry for Tomorrow

Creating better relationships among people, society, and our planet.



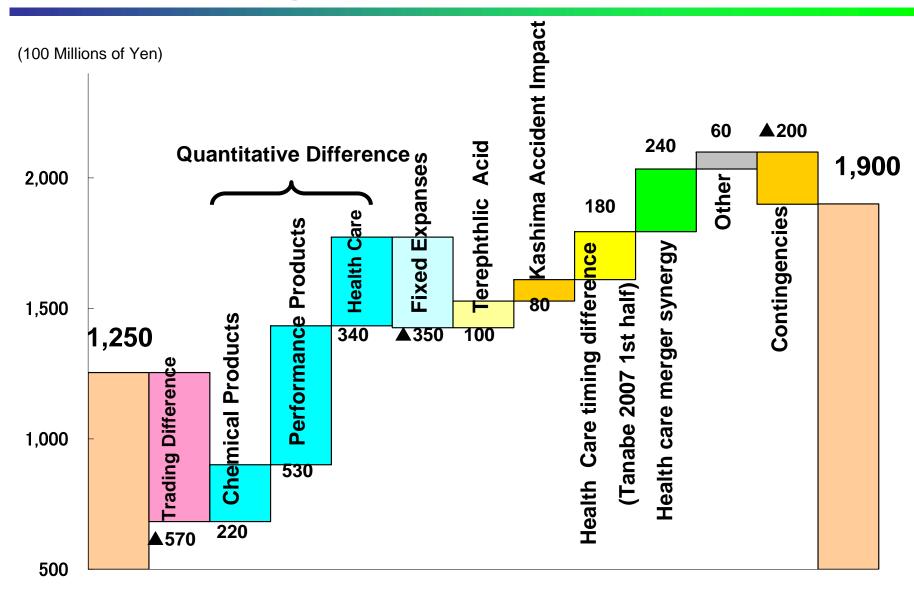
Change of Segmentation

Former segmentation			
Business domains	Segments		Major products
			Basic petrochemicals Chemical derivatives Synthetic fiber materials
Petrochemicals	Petroch	emicals	Neat resins and compounds
		Performance	Carbon products Fertilizers Recording media Information and electronics-related
Performance and Functional Products	Performance and Functional Products Functional Products Functional Products		materials Fine chemicals Organic intermediates Performance resins
		Polymer processing products and composites	
Health Care	Health Care		Pharmaceuticals Diagnostic reagents and instruments Clinical testing
	Others		Engineering Logistics Real estate
	Corpo	orate	

New segmentation	on as of April 1, 2008	
Major products	Segments	Business domains
Recording media Information and electronics-related materials Polyester films Semi conductor	Electronics Applications	
Fine chemicals Organic intermediates Performance resins Polymer processing products and composites	Designed Materials	Performance Products
Pharmaceuticals Diagnostic reagents and instruments Clinical testing	Health Care	Health Care
Basic petrochemicals Chemical derivatives Synthetic fiber materials Carbon products Fertilizers	Chemicals	Chemicals
Neat resins and compounds	Polymers	
Engineering Logistics Real estate	Others	
	Corporate	



Operating Income (FY2007 vs. FY2010)

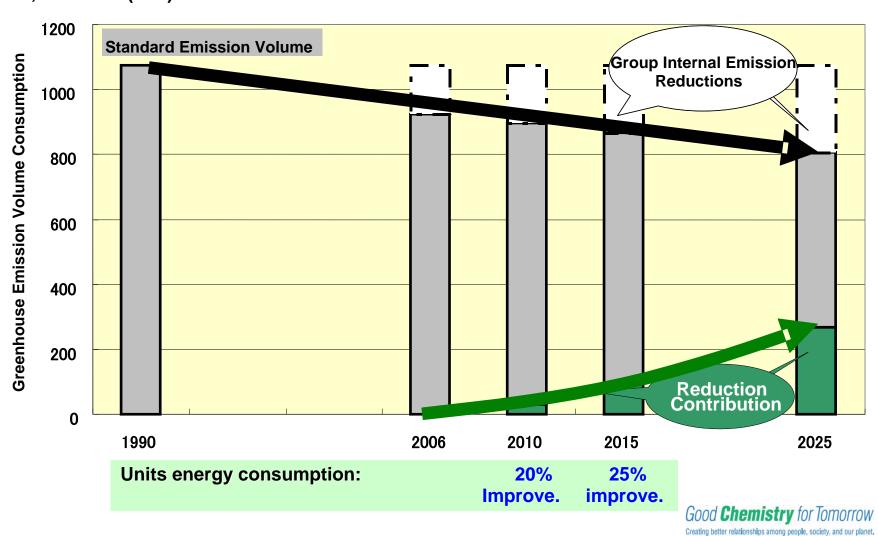


APTSIS 10 Major Capital Expenditures Candidates

Business Domains Segments		Major Capital Expenditures
Performance Products		Capacity expansion for GaN substrates for solid-state lighting
		Next-generation displays (OLED) production facility
	Electronics Applications	Capacity expansion for precision cleaning/wafer recycling, and capacity expansion for synthetic silica production
		Capacity expansion for high-performance polyester film production
	Designed Materials	Capacity expansion for HEV Li-ion battery electrolytes
		Capacity expansion for alumina fibers
		Capacity expansion for carbon fiber composites
		Testing facility for organic photovoltaic modules
Health Care		Production facilities for active pharmaceutical ingredients and intermediates
	Chemicals	1,4-BG-PTMG chain enhancement
Chemicals Polymers		Four production site for PP polymers
	Polymers	Capacity expansion for performance polymers
		Prototype facility for non-phosgene process DPC
		Prototype facility for bio-based polymers
Corporate and	others	New research facilities

Greenhouse Gas (CO₂ equivalency) Reduction Targets

10,000s tons (CO₂)





Recording Media DVDR

Global Demand

450 Million Units (Yr. 2007)

Market Share

24% (Global No.1)



Advantage

Global brand : VERBATIM R&D + Sales + Marketing

Dye and Double Layer technology



Growth Attributes

1st in the Market
High quality with stable global product supply

Technology

High speed recording with excellent hardware compatibility Main materials are made in-house

Features

Global network sales channel



Imaging: Organic Photo Conductor (OPC)

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Organic photo conductor for laser printers and copiers

Global Demand

Annual growth rate of 5%



Share

Approx. 20 % (Component supplier No.1)

Advantage

Cutting edge technology enabled (High image quality, high speed, miniaturization)

Technological development that meets market demand High cost performance

Growth Attributes

Increasing demand by introducing color OPC Strong sales channels

Technology

Wide range of I/P with main materials are made in-house

Features

Pioneer in OPC with technical expertise
Wide product range and steady product supply

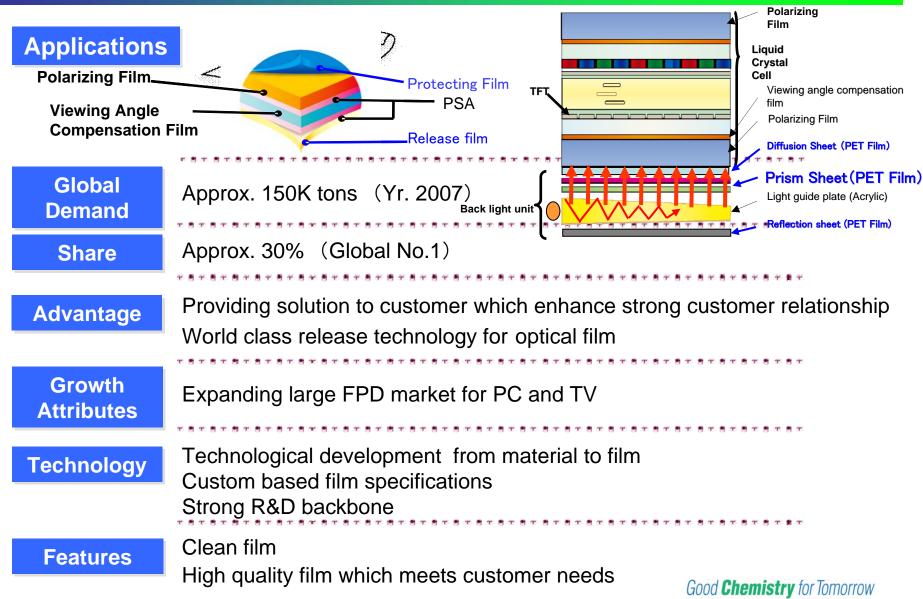


Precision Cleaning

Domestic demand	¥10 Billion (Yearly growth rate of 5 - 10%)
Share	Approx. 60% (JP,TW and KR) Global No.1
Advantage	Detergency which surpass competitors Certified by semiconductor and equipment manufacturer
Growth Attributes	Increasing 300mm wafer market
Technology	Precision cleaning technology which meets customer needs and technological innovation
Features	Original cleaning technology of semiconductor process facilities



Optical Polyester Film



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Food Ingredients: Sugar Ester

Applications	Food and Beverage ingredients
Global	**************************************
Demand	Approx. ¥10 billion
	x 8 x 8 x 8 x 8 x 8 x 8 x 8 x 8 x 8 x 8
Share	Approx. 70% (Global No.1)
	x a m a m a m a m a m a m a m a m a m a
Adventege	Various HLB products
Advantage	Only.1 emulsifier for beverages and supplements
	x a m a m a m a m a m a m a m a m a m a
Growth	Industrial breakthrough in food processing technology
Attributes	East Asia's high demand in processed food and beverages
	Applied technology development based on interface science
Technology	Corresponding to customer needs
	Accumulation of safety test data
	x 8 x 8 x 8 x 8 x 8 x 8 x 8 x 8 x 8 x 8
Footures	Edible emulsifiers that are made by sucrose and vegetable oil
Features	
	Good Chemistry for Tomorro



Carbon Fiber, "DIALEAD"

Applications

Robot Arm Industrial roll, wind energy blade CC brake



Production capacity

1,000 tons / (2008)

Share

Global share 70 - 80% (Pitch-based carbon fiber Global No.1)

Advantage

Overwhelming capacity Global Marketing

Growth Attributes

Segregation of PAN base CF & Pitch base CF Rapid increase in demand for FPD & Semiconductors Composite roll for Printing & Film Usage of Carbon fiber composite in automobile

Advantage

Mass production, Composite, Analysis

Features

Light weight, High stiffness, High thermal conductivity, Zero thermal expansion

Alumina Fiber-support Mat, "MAFTEC"





SiOx Vacuum Coated Plastic Film, "TECHBARRIER"

Applications

Electronics component, Medical / Industrial packaging material

= CAN. BOTTLE → flexible

= Alternative for Aluminum foil

Alternative for Metal and Glass Light & Thin

WW Demand

12,000 tons (Yr. 2007)

Share

Global share 40% (SiOx vacuum coated plastic film No.1)

Advantage

High Gas Barrier property **Global Marketing**

Growth **Attributes** - 2005 : Food packaging

2006 - : Medical / Industrial

Future: Electronics component

= High water vapor barrier 2010 WW demand forecast: 13,200 tons

Technology

Densification and uniformity of SiOx vacuum coating

Features

Keeping high gas barrier property under high temperature and humidity



High Performance Graphite



Applications

Material (Needle cokes) making graphite electrode for an electric arc furnace mill,

Special carbon products (Pitch coke)
for melting pot to produce Si single crystal ingot





Growth Attributes

Increasing demand on recycling steel from scrap metal Increasing demand on melting pot according to silicon wafer market growth

Advantage

Stable supply of world top class quality, and further improvement Strong partnership with world class customers

Technology

Break through technology which yielded consistence process from tar to high performance graphite

Features

Thermal expansion coefficient of electrode by using our company's needle coke is world's smallest



C4 Chemicals for Elastic Fibers and Engineering Plastics

Applications

PTMG: Elastic fiber (Spandex)

1,4-BG:E • Plastic (PBT), Urethane fields, Solvent /raw

material for medical

Share

Commanding lead in Domestic market

Asia MKT share PTMG approx. 15% 1,4-BG approx. 25%

Plant to take 20 to 30% market share in ever-growing Asia MKT

→ New plant under construction in China (Up and running from Sep.2009)

Advantage

High cost performance (1,4-BG, PTMG)

Solution provider with organized technical service

Growth Attributes PTMG: Comfort cloths • High performance needs

1,4-BG :Shifting toward high end plastic such as automobile and

electronics materials

Technology

PTMG: Manufacturing process that yields waste less and low

environmental impact '07: Green sustainable chemistry award

1,4-BG: Sole manufacturer using Butadiene base

'05:Japan Petroleum Institute Award for Technological Progress

Features

C4 chemicals final applications are cloths, automobile, medical and IT

→ High hope on market development



Polycarbonate (PC)

Applications	Optical film, Automobile application, E&E and Bottle (Impact resistance, electrical characteristic, dimensional stability, high transparency rate)
Domostic	*********************************
Domestic Demand	Approx. 300K tons/Yr (Global demand : Approx 3 million tons/Yr)
Demand	$x \in x \in$
Share	Approx. 45% (Global: 12%)
	x 5 x 5 x 5 x 5 x 5 x 5 x 5 x 5 x 5 x 5
Advantage	Wide product range which meets market demand
	(Proprietary process technology, Polymer designed technology and compounding technology) Cost competitive
	x 8 x 8 x 8 x 8 x 8 x 8 x 8 x 8 x 8 x 8
Technology	Advance proprietary technology (Product chain: Phenol → BPA → PC)
	Mitsubishi Engineering Plastic Corporation's knowledge on material and compounding technological development
Attributes	Environmental friendly melting method process
	Moldability, Cost efficient extrusion, Bottle grade



Polypropylene (PP)

Applications	Automobile, Food and Medical (High quality and performance PP)
Domestic Demand	Approx. 2.9 million tons/ Yr.
Share	Approx. 35%

Advantage	Competitive advantage on technical and marketing ability Global expansion on PP for automobile
	x a m a m a m a m a m a m a m a m a m a
Technology	Proprietary catalyst technology, Proprietary process technology, High Polymer design technology, Compounding technology
Features	Can meet customers high expectations Early adoption of metallocene catalyst design have yielded new functional PP



Performance Polymers

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			• • • •

High functional automobile (Interior · Airbag)
Medical and Food packaging (Multilayer film)

Sales

Total 100K tons/Yr. Oversea subsidiary TPE: USA PVC compound: Thai/China/Singapore

Advantage

Optimum compound design which satisfies required specifications Product customization with customer (Customer Grade) Over 40 years of experience with customers (PVC)

Technology

Polymer compound technology Polymer (Graft) technology PVC compound technology

Features

MARKET IN approach are used for product development Wide product range (Proposal of Mix and Match)
TPE: Olefin, Styrene, Polyester, PVC
Functionalized Polyolefin (Graphite)
Soft and hard PVC compound