Fiscal Year Ended March 31, 2013

New Medium-Term Management Plan

Change & Challenge-Driving Growth

May 16, 2013



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2 New Medium-Term Management Plan "Change & Challenge-Driving Growth"



FY2012 Consolidated Results and FY2013 Forecast



Lower revenues and profits due to poor market conditions for caprolactam and other chemical products

(Billion yen)

Item	FY2011	FY2012	YoY Change	Factors
Net sales	638.6	626.0	-12.6	Lower selling prices for chemical products
Operating income	46.0	29.9	-16.0	Lower margins for chemical products
Ordinary income	40.8	28.0	-12.7	Improvement of profit / loss on foreign currency exchange and non-operating profit / loss
Net income	22.9	8.2	-14.7	Recorded losses from ceasing caprolactam production at Sakai Factory
Net interest- bearing liabilities	220.8	210.6	-10.1	
Equity capital	199.4	215.5	16.0	
Dividend (Yen / Share)	5.0	5.0	0.0	



(Billion yen)

UBE

Sogmont		Sales		Operating Income		
Segment	FY2011	FY2012	YoY Change	FY2011	FY2012	YoY Change
Chemicals & Plastics	231.0	219.3	-11.6	22.9	5.0	-17.9
Specialty Chemicals & Products	64.3	61.1	-3.2	5.4	1.2	-4.2
Pharmaceutical	11.1	11.4	0.2	3.7	3.4	-0.3
Cement & Construction Materials	209.1	208.3	-0.7	8.6	11.4	2.8
Machinery & Metal Products	72.5	71.3	-1.2	3.0	3.6	0.6
Energy & Environment	62.5	68.7	6.2	3.3	5.9	2.6
Others	25.9	25.2	-0.6	1.0	1.0	0.0
Adjustments*	-38.0	-39.6	-1.5	-2.3	-1.9	0.3
Total	638.6	626.0	-12.6	46.0	29.9	-16.0

* Including offset from intersegment transactions



Project higher revenues and profits due to improved supply and demand for chemical products and strong demand for cement

(Billion yen)

Item	FY2012	FY2013	YoY Change	Factors
Net sales	626.0	675.0	49.0	Increased volumes for chemical products, other
Operating income	29.9	34.0	4.1	Increased volumes for chemical products, other
Ordinary income	28.0	28.5	0.5	
Net income	8.2	14.5	6.3	Improvement of extraordinary profit / loss
Net interest- bearing liabilities	210.6	215.0	4.4	
Equity capital	215.5	227.5	12.0	
Dividend (Yen / Share)	5.0	5.0	0.0	



(Billion yen)

UBE

Segment		Sales		Operating Income		
Segment	FY2012	FY2013	YoY Change	FY2012	FY2013	YoY Change
Chemicals & Plastics	219.3	251.0	31.7	5.0	7.0	2.0
Specialty Chemicals & Products	61.1	74.0	12.9	1.2	4.5	3.3
Pharmaceutical	11.4	10.0	-1.4	3.4	2.0	-1.4
Cement & Construction Materials	208.3	212.0	3.7	11.4	13.0	1.6
Machinery & Metal Products	71.3	76.0	4.7	3.6	4.0	0.4
Energy & Environment	68.7	65.5	-3.2	5.9	4.0	-1.9
Others	25.2	26.0	0.8	1.0	1.0	0.0
Adjustments*	-39.6	-39.5	0.1	-1.9	-1.5	0.4
Total	626.0	675.0	49.0	29.9	34.0	4.1

* Including offset from intersegment transactions

New Medium-Term Management Plan (FY2013–2015) "Change & Challenge-Driving Growth"



Summary of Stage Up 2012 Medium-Term Management Plan (Part 1) **Target Achievement**



• Did not reach revenue targets for final year of medium-term management plan, but improved the financial position

Item	Unit	FY2009 Result	FY2010 Result	FY2011 Result	FY2012 Result	FY2012 Mid-Term plan	FY2015 Targets
Net debt/equity ratio	Times	1.4	1.1	1.1	0.98	Below 1.0	-
Equity ratio	%	27.3	28.3	30.0	31.4	30 or above	_
Operating income ratio	%	5.0	7.2	7.2	4.8	7.5 or above	8.0 or above
Return on assets	%	4.4	7.2	7.2	4.8	7.5 or above	8.0 or above
Return on equity	%	4.7	9.4	11.9	4.0	12 or above	
Net sales	Billion yen	549.5	616.0	638.6	626.0	670.0 or above	
Operating income	Billion yen	27.5	44.3	46.0	29.9	53.0 or above	70.0 or above
Business income	Billion yen	29.3	47.0	47.9	32.1	55.0 or above	_
Net interest-bearing liabilities	Billion yen	244.0	211.0	220.8	210.6	Below 220.0	_
Equity capital	Billion yen	178.8	187.0	199.4	215.5	225.0 or above	
Cost reductions (compared with FY2009)	Billion yen		11.3	21.5	33.6	21.0 or above	





• Establish a revenue base that enables sustainable growth

- Slow growth of strategic growth businesses, while core platform businesses anchored revenues
- Achieved certain results for: development of technologies and products aimed at markets in developing countries, overseas development tailored to respective business characteristics, and restructuring of production framework and consolidation of facilities.

② Continued to improve the financial position

Net debt/equity ratio of less than 1.0 times, and secured A credit rating

• Address and be part of the solution for global environmental issues

Making progress on reducing greenhouse gas emissions ahead of schedule
 CO₂ emissions from energy use
 Target to reduce emissions by 15% by fiscal 2015, compared with fiscal 1990 levels; achieved ahead of schedule
 Ensure increased net sales from environmental-related businesses



Vision for the Ube Group

- Growth centering on differentiated chemicals businesses
- Achieve stability through diversification amid shifting business conditions

Shifting business conditions

Chemicals businesses: Driving force for growth Non-chemicals businesses: Anchor revenues

■ Structural changes rather than cyclical changes of the past ⇒ Cannot respond using just conventional strategies

Nuclear power plant accident, shale gas development Urgent need to address resource and energy issues

Issues toward enhancing corporate value

- Restructure revenues from chemicals segment, and pursue growth of major businesses to become future cornerstone businesses
- Further strengthen the revenue base from non-chemicals segments
- Accelerate the commercialization of new products, aiming to rapidly generate revenues from them



Group Vision

Wings of technology and spirit of innovation. That's our DNA driving our global success.

The Ube Group will embrace a frontier spirit in seeking to achieve coexistence with the global community driven by the limitless possibilities of technology, while continuing to create value for the next generation.

New Medium-Term Management Plan (FY2013–FY2015) Change & Challenge-Driving Growth

(Basic Strategies)

- 1. Strengthen the revenue base to enable sustainable growth
- 2. Maximize the global strength of the Ube Group
- 3. Address and be part of the solution for resource, energy, and global environmental issues



• Strengthen the revenue base to enable sustainable growth

- Continue the business strategy emphasizing cash flow, while increasing forward-looking investments to achieve sustainable growth over the medium- and long-term
- Concentrate on capital investment for strategic growth businesses, and expand global businesses
- Core platform businesses: Actively invest in segments anticipated to deliver increased profits
- Accelerate efforts to develop and foster new businesses, focusing on energy and environment

O Maximize the global strength of the Ube Group

- Strengthen global marketing
- Share and use information and marketing assets, and strengthen collaboration among Group companies
- Pursue global R&D

Address and be part of the solution for resource, energy, and global environmental issues

- Contribute to a sustainable society by actively pursuing initiatives to reduce greenhouse gas (GHG) emissions, reduce electricity and other energy consumption, and conserve biodiversity
- Develop and spread technologies that help to expand the use of renewable energy, as well as conserve resources and reduce environmental impact





Targets for FY2015 (Final Year of Mid-Term Management Plan) (1) Key Figures

Operating income	55.0 Billion yen or above
Equity capital	270.0 Billion yen or above

(2) Management Targets

Return on sales	7 % or above
Return on assets	7 % or above
Return on equity	12 % or above

Targets for FY2020

Operating income

80.0 Billion yen or above



(Billion yen)

		Sales		Operating Income			
Segment	FY2012 Result	FY2015 Forecast	YoY Change	FY2012 Result	FY2015 Forecast	YoY Change	
Chemicals & Plastics	219.3	265.0	45.6	5.0	16.5	11.4	
Specialty Chemicals & Products	61.1	95.0	33.9	1.2	10.5	9.3	
Pharmaceutical	11.4	14.0	2.6	3.4	4.0	0.6	
Cement & Construction Materials	208.3	223.0	14.6	11.4	14.5	3.0	
Machinery & Metal Products	71.3	83.0	11.7	3.6	5.5	1.8	
Energy & Environment	68.7	72.0	3.2	5.9	5.0	-0.9	
Others	25.2	31.5	6.2	1.0	1.0	0.0	
Adjustments*	-39.6	-43.5	-3.8	-1.9	-2.0	-0.1	
Total	626.0	740.0	114.0	29.9	55.0	25.1	

* Including offset from intersegment transactions



Business Portfolio

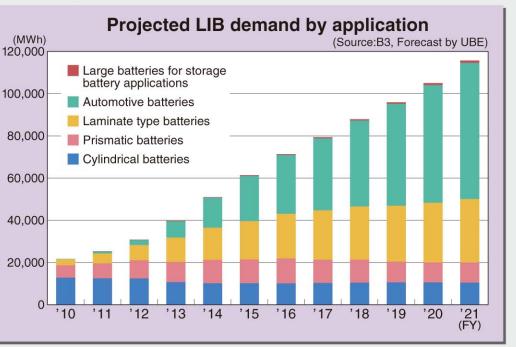
		Pharmaceutical	Chemicals & Plastics	Specialty Chemicals & Products	Cement & Construction Materials	Energy & Environment	Machinery & Metal Products
Developina	Fields			Aerospace Information electronics Energy and environment			
Strategic	Growth Businesses	Pharma- ceuticals		Battery materials Specialty chemicals plastics Specialty inorganic m y c l i n g a n d r e n e w a b l		г д у	
ses	Actively expand		Synthetic rubber Lact Nylon resins	am and nylon chain			Machinery services
Core Platform Businesses	Strengthen business platform		Caprolactam Industrial chem (Polyethylene) (ABS)	Lactam-based fine chemicals Polyimide chain Polyimides Gas separation membranes Semiconductor, electronic, and optical materials	Cement and ready mixed concrete limestone, calcia,and magnesia	Coal Power	Molding machinery Industrial machinery Steel products

Address changes in and growth of the global market, and increase revenues

Business conditions

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- Significant growth of lithium-ion battery (LIB) market over medium- and long-term (5–10% growth annually for consumer applications alone)
- Markets are changing significantly Regionally: Dominated by Japanese companies → Growth of Korean, Chinese and Taiwanese
 - companies
 - Applications: Centered on consumer applications
 - → Both consumer applications and automotive/stationary applications
- Advancements in required performance and quality
- Intense global competition with many manufacturers jumping into market
- Slow development of market for automotive applications



Further develop existing strengths and take next steps in anticipation that market for automotive applications will fully develop, to successfully compete

Strengths

- Track record and brand strength
- Technical advantages (customer support)
- Cost competitiveness

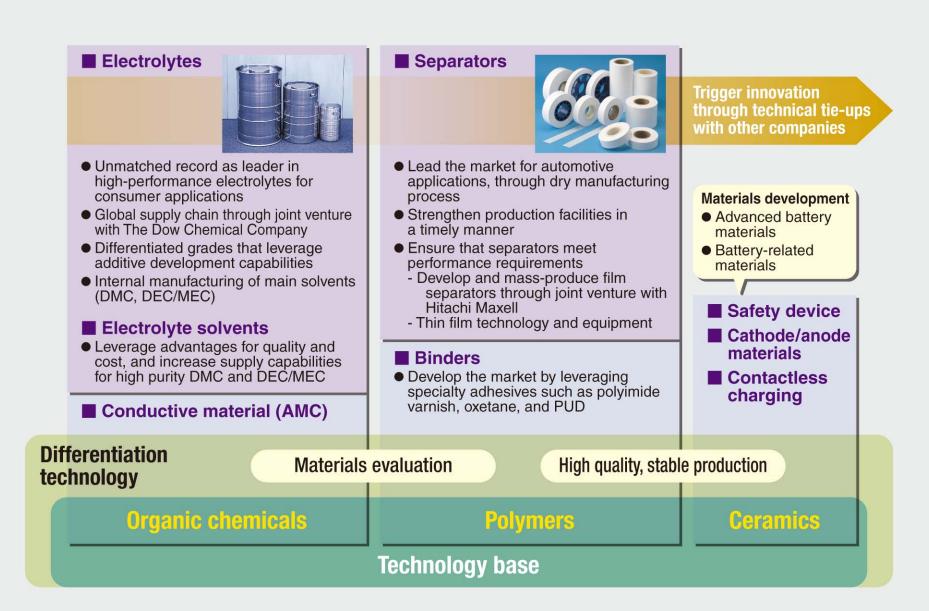
Next steps

- Increase production capacity to meet growing demand
- Development based on future customer requirements
- Establish global supply framework



Business Strategy Battery Materials (Part 2) [Strategic Growth Business]





Implement differentiation strategy based on own technology

Expand businesses that are based on C1 chemicals technology (Strategic Growth Business) Eco-friendly coating

Build new manufacturing facilities in Thailand for polycarbonate diol (PCD), of which Ube holds a leading global market share

Launch full-scale manufacturing and marketing of polyurethane dispersions (PUDs), in order to develop into a cornerstone for revenues

Electrolyte solvents

Incorporate new manufacturing methods for dimethyl carbonate (DMC), diethyl carbonate (DEC), and methyl ethyl carbonate (MEC) at manufacturing facilities, to strengthen supply capacity and enhance competitiveness

C1 chemicals technology licensing

License dimethyl oxalate (DMO) process for manufacturing ethylene glycol (MEG) to other markets besides China Initiate study of possible technology licensing for DMO oxamide (slow-release fertilizer)

2 Maintain and strengthen the framework for diol production (Strengthen Business Platform)

Increase production at existing plants in Ube (Japan), Spain, and Thailand through debottlenecking, and implement cost reductions Study a new manufacturing base

Overlap and promote new businesses (Developing Field)

Rapidly build up the artificial micro carbon (AMC) business:

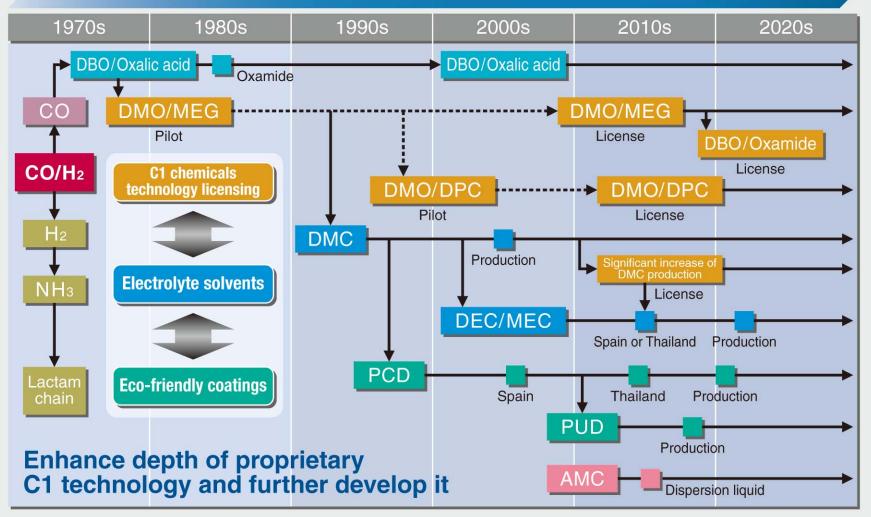
Accelerate the business by developing and commercializing dispersion liquids Commercialization of slide-ring material (SRM):

Strengthen the level of collaboration with Advanced Softmaterials Inc. (ASM)

Business Strategy Fine Chemicals (Part 2) [Strategic Growth Business]



Expand businesses that are based on C1 chemicals technology





Business Strategy Pharmaceuticals [Strategic Growth Business]



Business Strategy for Pharmaceuticals

Implement the business model, and get the business on track for stable growth by building the foundations of the business and reaping results

- Drugs discovered by Ube: Expand the pipeline of drug development and pursue rapid licensing, alongside lifecycle management of existing drugs discovered by Ube
 Contract pharmaceuticals manufacturing: Expand the level of technology (such as handling of highly pharmacologically-active compounds) and
- strengthen supply chains to expand the business, centering on active ingredients for new drugs
- Establish an overseas manufacturing base, manufacture active ingredients for generic drugs, and advance the business model for contract process development

Current state of joint development and life-cycle management

Trade name (development code)	Indication	Current status (marketing countries)	Future plans					
Talion Generic name: Bepotastine besilate Sales: Mitsubishi Tanabe Pharma Corporation	Antiallergy agent • Allergic rhinitis • Urticaria • Skin disorders with pruritus • Allergic conjunctivitis	 Talion tablets (Japan, Korea, China, Indonesia) Talion oral disintegrant tablets (Japan) Bepreve ophthalmic solution (US) 	 Expand the life-cycle management New indications and formulas, penetration into emerging market, etc. 					
Calblock Generic name: Azelnidipine Sales: Daiichi Sankyo Co., Ltd.	Antihypertensive agent • Hypertension	 Calblock tablets (Japan) Rezaltas combination tablets (Japan) 	 Pursue sales promotion as Olmesartan/Calblock family marketed Daiichi Sankyo Co., Ltd. 					
Effient/Efient Generic name: Prasugrel Sales: Daiichi Sankyo Co., Ltd. Eli Lilly and Company	Antiplatelet agent ● Heart attack, stroke, etc.	 Effient tablets (US, Europe and 60 countries) 	 Expand sales into global countries and regions Japan Cardiac applications: Apply for in fiscal 2013 Brain applications: Phase 3 clinical trials scheduled to be competed in fiscal 2014 					
(DE -117) Co-development: Santen Pharmaceuticals Co., Ltd.	Antiglaucoma agent ● Glaucoma and ocular hypertension	US: Phase 1/ phase 2 clinical trials	 Pursue global development 					
(DS -1442) Co-development: Daiichi Sankyo Co., Ltd.	Dyslipidemia treatment drug ● Dyslipidemia	US: Phase 1	Pursue global development					
Status of Pharmaceuticals	Status of Pharmaceuticals Manufactured on Contract Basis							
Marketed APIs for antihypertensive agents, Hyperucemia treatment drug, etc. Products for which like received								

 Marketed Pharmaceuticals
 APIs for antihypertensive agents, Hyperucemia treatment drug, etc. Intermediates for antihrombotic agents, dyslipidemia treatment drug, anticoagulant, diabetes treatments, etc.
 Products for which Ube received orders from major Japanese and international pharmaceutical companies were brought to market

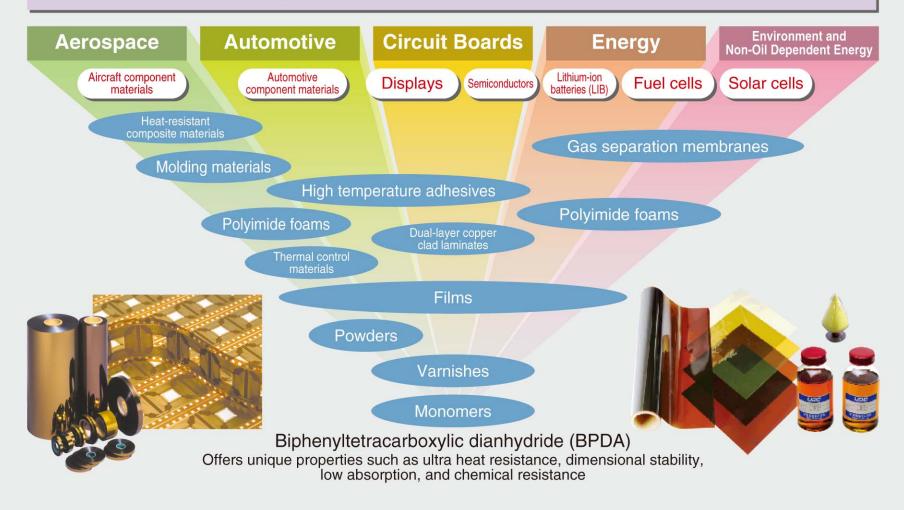


Business Strategy Polyimide Chain (Part 1) [Core Platform Business]



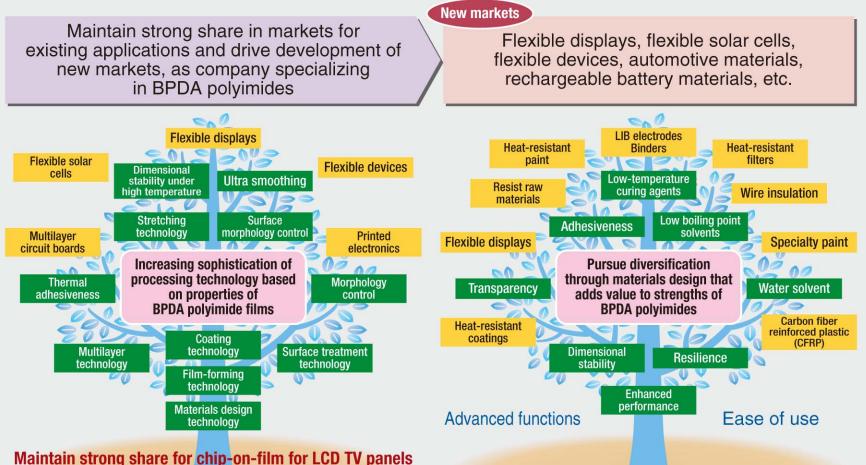
Business Strategy for Polyimide Chain

Expand applications by leveraging properties of proprietary monomer BPDA



Business Strategy Polyimide Chain (Part 2) [Core Platform Business]





Maintain strong share for chip-on-film for LCD TV panels Increase sales of flexible printed circuit films (dual-layer copper clad laminates) for smartphones

Develop films business

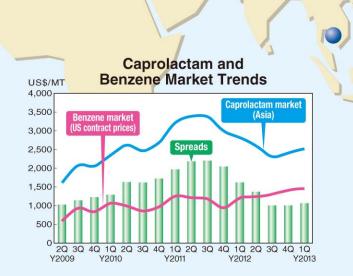
Develop varnish business

Maintain leading share for seamless belts used in printers

Business Strategy Lactam-Nylon Chain (Part 1) [Core Platform Business]



Shift in caprolactam business strategy and positioning, from increasing presence in Asia market, to stable and cost-competitive supply of nylon raw material



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Business Strategy for Caprolactam: Secure cost competitiveness

Current Business Conditions:

- Production capacity for caprolactam and nylon (polymers) continues to increase in China
 - \Rightarrow Excessive supply of caprolactam
 - ⇒ Shakeout of plants that are not cost competitive

Action:

- Ceased production at Sakai Factory
 ⇒ Rebuild global production to secure cost competitiveness
- Deliver stable supply of top-grade products suitable for high-speed spinning
- Add strong value to ammonium sulfate and conduct collaborative marketing among three global production bases
- Strengthen alliances

Business Strategy for Ammonia: Expand sales by delivering stable production

Current Business Conditions:

- Continued shortage of supply in Asia
- Plants continue to shut down in Japan

Action:

- Increase volume of outside sales by delivering stable production from Ube Group's ammonia plant, which has a strong edge for cost-competitiveness
- Refurbish production facilities
- Secure suitable prices



Business Strategy Lactam-Nylon Chain (Part 2) [Core Platform Business]

Region

Asia

 \checkmark

 \checkmark

 \checkmark

Japan

Europe Americas

 \checkmark

Thailand

 \checkmark

Spain

Business Strategy for Nylon Resins:

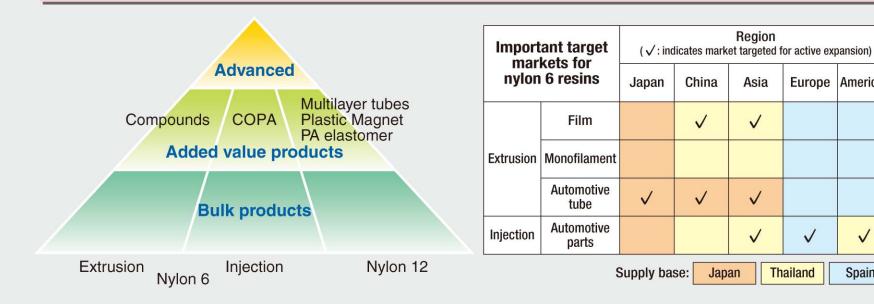
Expand the production framework by leveraging access to a competitive supply of raw materials, and actively expand the business by adding strong value

Current Business Conditions:

- Average 4% annual growth in global demand projected for next 10 years
- Growth in demand for injection applications, driven by growth of automotive market and demand for weight reduction
- Delivering stable guality from continuous polymerization, which is driving increased demand for extrusion (film) applications, where Ube products are highly rated by customers. Also, increased demand for food wrapping films and LIB package applications.

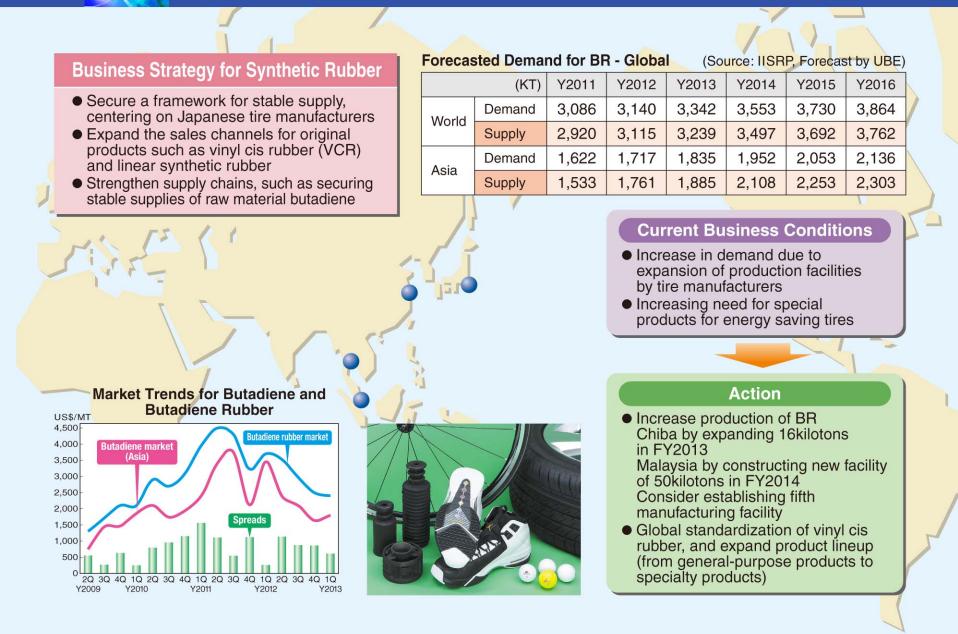
Action:

- Strengthen the three production bases in Japan, Thailand, and Spain, and establish production bases in North/Central America.
- Injection applications: Strengthen the production capacity for compounds, to accommodate global business development of Japanese automakers
- Extrusion applications: Increase sales in markets in developing countries, and develop demand in high added-value markets such as for copolymers



Business Strategy Synthetic Rubber [Core Platform Business]



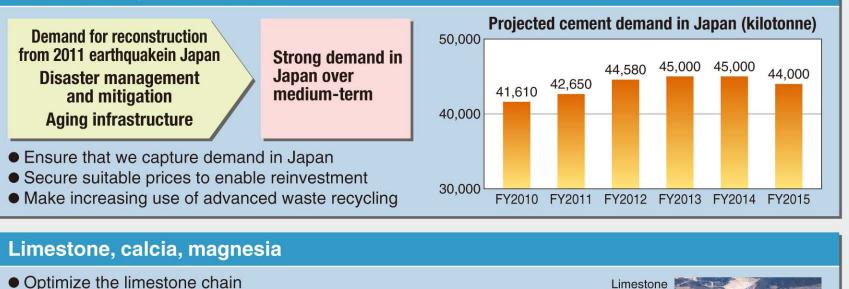




Business Strategy

Cement & Construction [Core Platform, Strategic Growth Business]

Cement, ready-mix concrete



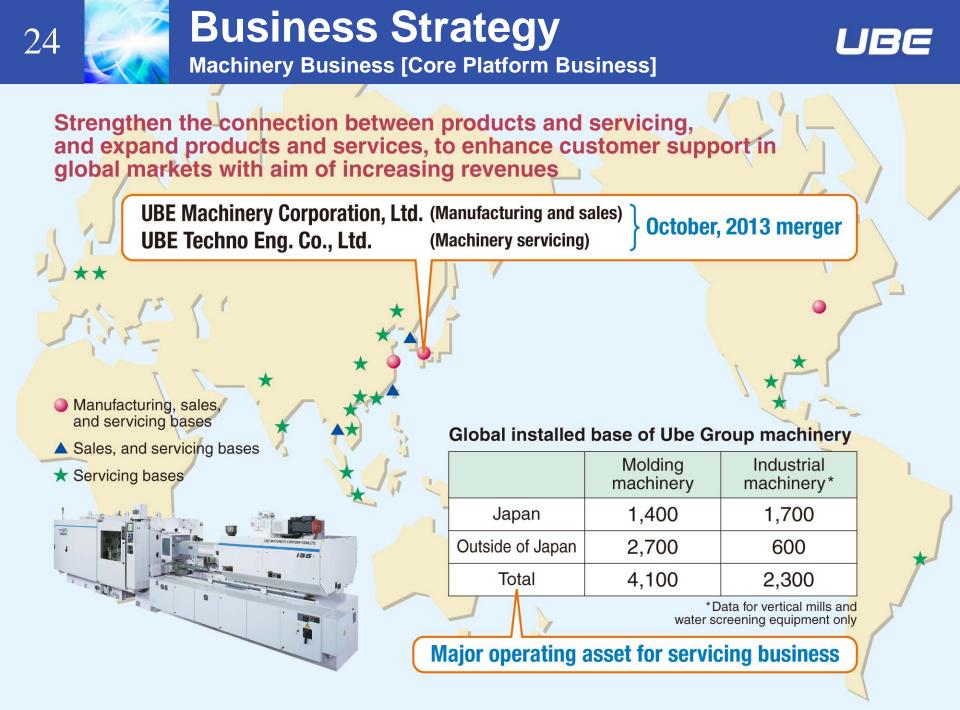
- Leverage Ube's high-quality limestone to strengthen calcia and magnesia business
- Target launch of mining operations in Kanayamadai mining zone in 2017
 - ⇒ Secure cement raw materials to ensure continuity of business

Specialty inorganic materials

 Strengthen cooperation within Ube Group, to achieve timely commercialization Make Ube Materials Industries, Ltd. wholly-owned subsidiary \Rightarrow Strengthen synergies

mine in Isa,

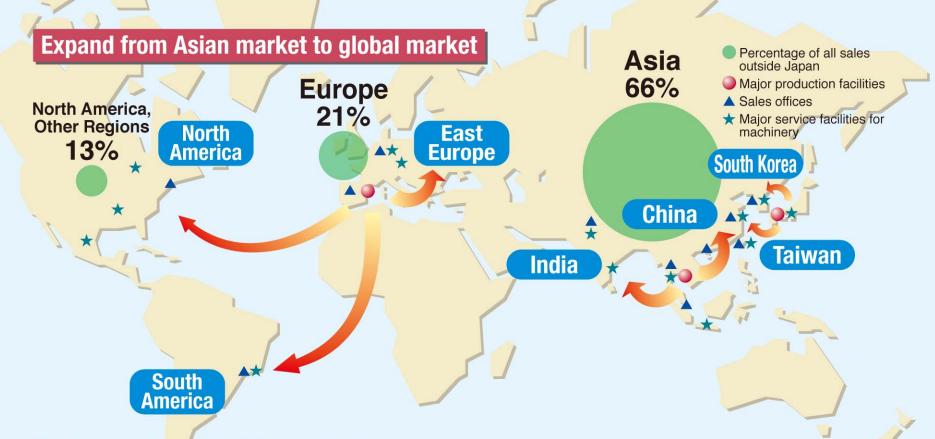
Japan



Development of Global Business

-Priority Businesses and Market Activities

UBE



Net Sales Outside of Japan by Segment

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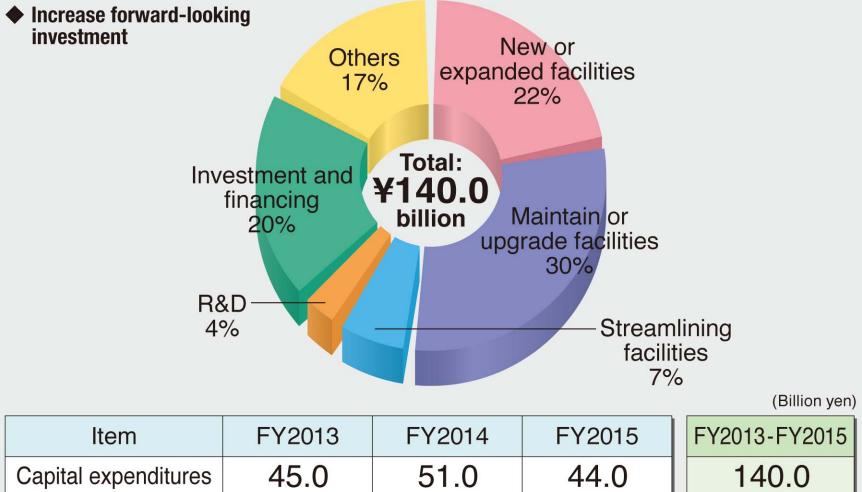
(Billion yen)

	Chemicals & Plastics	Specialty Chemicals & Products	Pharmaceutical	Subtotal	Cement & Construction Materials	Machinery & Metal Products	Energy & Environment	Others	Total
FY2012 Actual	124.5	22.4	5.0	152.1	7.7	29.3	0.1	15.8	205.2
Percentage of Overall Net Sales in Segment (Japan and Outside of Japan)	60.6%	39.2%	44.8%	55.5%	3.8%	42.1%	0.3%	69.1%	32.8%



Make flexible decisions about amount and timing of investment, depending on urgency and cash flow situation

UBE





Project	Site	Completion						
Increase production capacity for battery materials business								
 Additional facilities for producing separators Facilities for manufacturing high-purity DMC and DEC/MEC 	Sakai, Japan Spain or Thailand	FY2013-FY2016 April 2015						
② Strengthen nylon resin business and secure cost-co	mpetitive supply of I	actam						
 Additional facilities for producing nylon 6 Upgrade of extrusion machinery for nylon compounds New plant for caprolactam (investment and financing) Secure procurement sources for ammonia (investment and financing) 	Spain Ube, Japan undecided undecided	September 2014 FY2014 undecided undecided						
Increase global production capacity for synthetic rul	bber							
 Additional facilities for producing synthetic rubber New plant for synthetic rubber (investment and financing) 	Chiba, Japan Malaysia Thailand	February 2014 FY2014 FY2016						
O Strengthen the business platform to secure stable revenues from cement business								
 Waste heat power generation equipment Development of Kanayamadai mining zone 	Kanda, Japan Isa, Japan	December 2015 October 2017						



R&D Portfolio





Strike balance between R&D projects to strengthen existing businesses and advanced R&D; selective and focused R&D to reallocate resources and accelerate R&D

① Strengthen core platform businesses and expand strategic growth businesses

Aim to deliver performance and prices to meet requirements of customers, centering on the chemicals sector

Develop new materials and chemical products

Specialty chemicals (PUD materials, metal organic compounds), specialty resins (specialty rubbers, nylons), electrolytes and separators for automotive applications, transparent ultra heat-resistant polyimides, printable electronics, high-performance separation membranes, new pharmaceuticals

Production technology innovations

Lactam, silicon nitride, C1 chemicals

2 Rapidly foster business segments in developing field into strategic growth businesses

Accelerate commercialization efforts in three fields: aerospace, information electronics, energy and environment

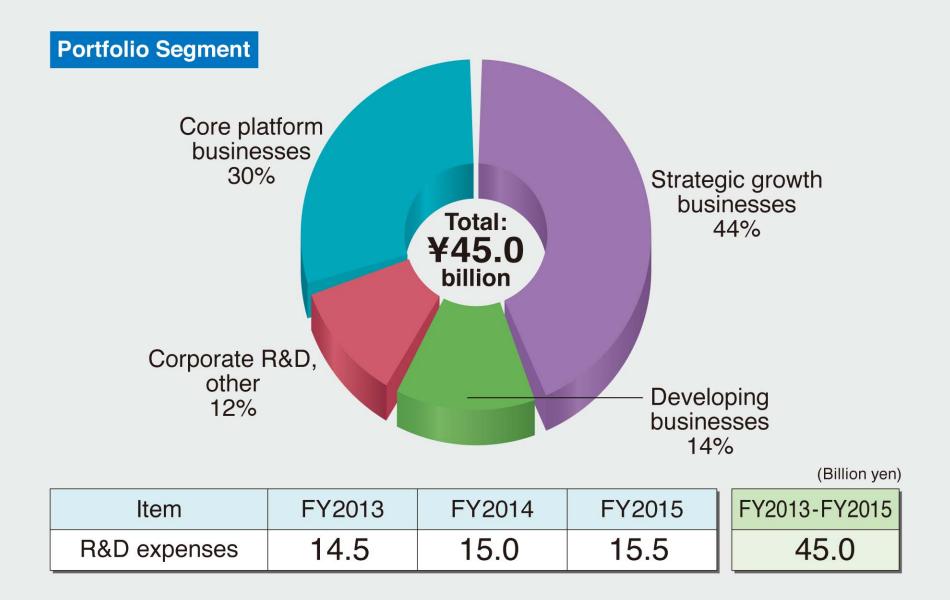
Strengthen technology base in new target domains, and rapidly transition them into developing field

 New carbon sources and next-generation chemicals New fine chemicals and specialty chemicals, diversified carbon sources 	
 Energy and environment Specialty membranes, rare metal substitutes, energy conversion materials, next-generation battery materials 	
 Healthcare Information electronics 	Ube Group materials for healthcare applications Organic electronics materials, phosphor materials



FY2013 to FY2015 R&D Expenditures by Portfolio Segment

LIBE





UBC

Helping to realize a sustainable society as a socially responsible corporation

Reduce greenhouse gas emissions

- CO₂ emissions reduction target for Ube Group in Japan By fiscal 2015:
 - CO2 emissions from energy use: Reduce by 15% compared with fiscal 1990 levels
 - Total CO2 emissions: Reduce by 20% compared with fiscal 1990 levels
- Further reduce CO₂ emissions through initiatives for energy conservation and increased recycling of waste
- Identify CO₂ emissions for business locations outside of Japan and study Group-wide reduction targets

Develop eco-friendly technologies and products

Positive impact on the global environment through technologies and products of the Ube Group

- Materials and products related to advanced energy
- Materials, products, and technologies that conserve energy and reduce environmental impact
- Materials, products, and technologies that enhance and conserve the environment

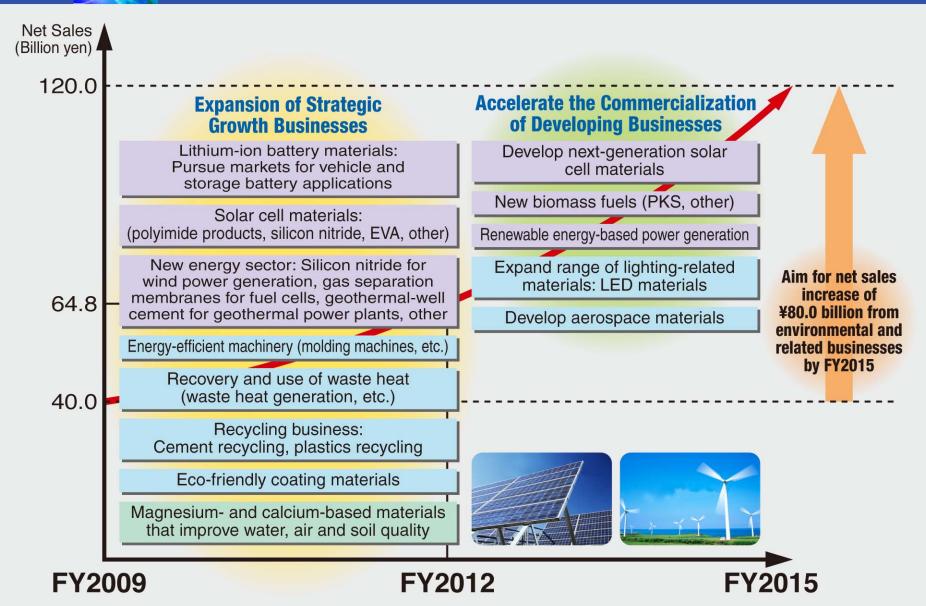
Biodiversity conservation

- Biodiversity-friendly business activities
- Active participation in forest maintenance activities

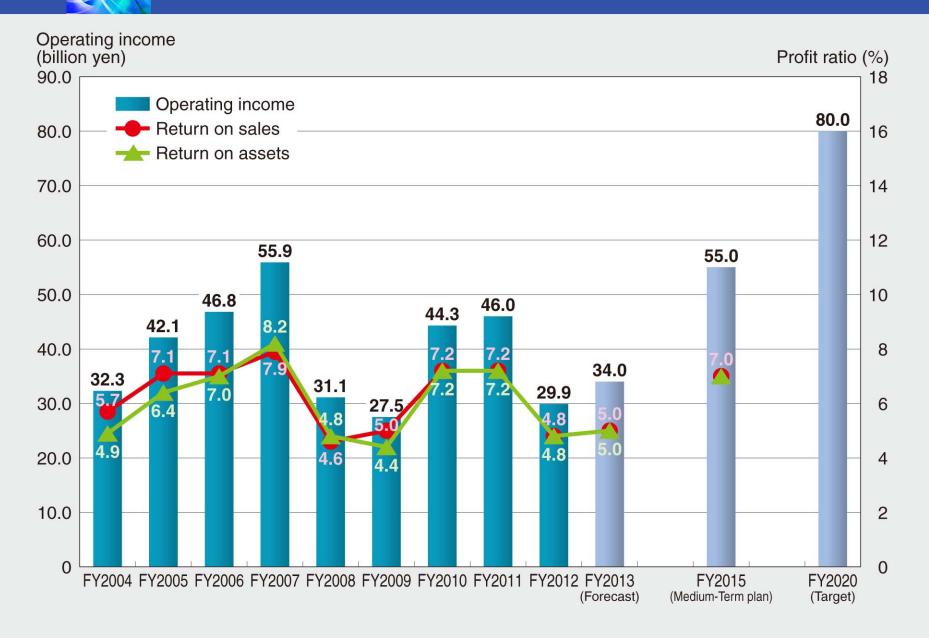
Expansion of Environmental Businesses

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Profitability from 2004 to 2020 UBE

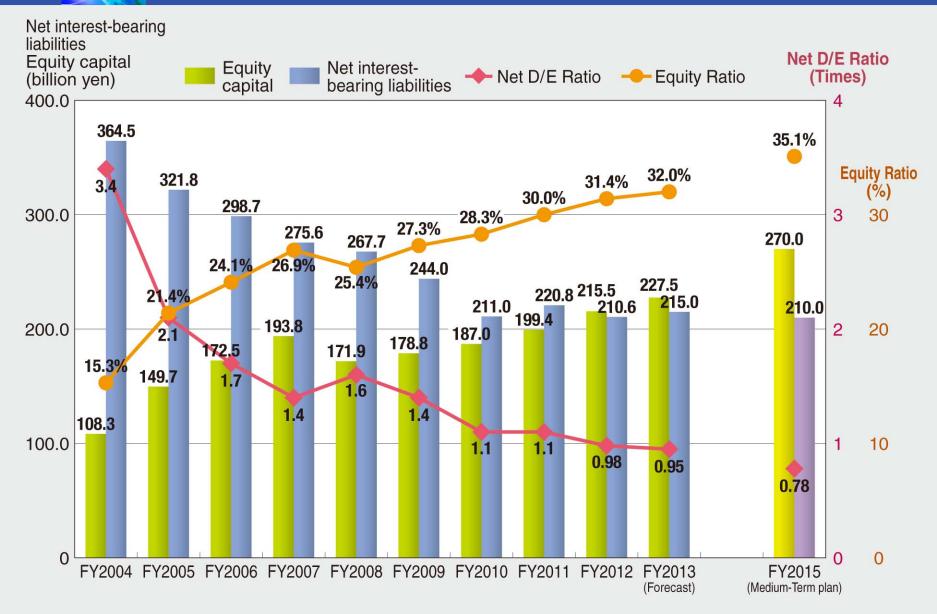


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Financial Position from 2004 to 2015

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Basic Policy for Dividends

Dividends according to business results. Increase internal reserves for future business development to secure medium- and long-term profits for shareholders.

⇒ Decide shareholder dividends based on comprehensive assessment of these factors.

Increase consolidated dividend payout ratio from 20-25% before, targeting 30% or above.





New Medium-Term Management Plan "Change & Challenge-Driving Growth" Numerical Plan

UBE

Business Indicators

Key Figures for Profit/Loss

Statement and Balance Sheet

[Conditions] \$1 = ¥95

ltem	Unit	FY2012 Result	FY2015 Medium-Term plan
Net debt/equity ratio	Times	0.98	0.78
Equity ratio	%	31.4	35.1
Return on sales	%	4.8	7.4
Return on assets	%	4.8	7.7
Return on equity	%	4.0	13.2
Net sales	Billion yen	626.0	740.0
Operating income	Billion yen	29.9	55.0
Business income	Billion yen	32.1	58.5
Net interest-bearing liabilities	Billion yen	210.6	210.0
Equity capital	Billion yen	215.5	270.0
Cost reductions (compared with FY2012)	Billion yen	_	24.0 or above





(Billion yen)

	New Medium-Term Management Plan Total of FY2013-2015
Cash flows from operating activities (A)	158.0
Ordinary income	118.0
Depreciation	103.0
Tax payment	- 25.0
Other	- 38.0
Cash flows from investing activities (B)	- 139.0
Capital expenditures	- 140.0
Other	1.0
Free cash flows (A+B)	19.0
Increase / decrease in interest-bearing liabilities	3.4
Dividends, other	- 18.4
Increase / decrease in cash and cash equivalents	4.0



LBE

Concentrated allocation of business resources to rapidly increase revenues and increase scale of businesses

Field	Products
Pharmaceuticals	Drugs discovered by Ube, Contract manufacturing
Battery materials	LIB electrolyte, Separator LIB electrolyte solvents (high-purity DMC, DEC/DMC) AMC (Multilayer Carbon Nanotube) Binder
Specialty chemicals	C1 chemicals (DMC, PUD etc) Dihydric Phenol Derivatives, eco-friendly coating materials (PUD) Metal organic compounds
Specialty plastics	Polyimide varnish, Nylon specialty products, Butadiene rubber specialty products
Specialty inorganic materials	Silicon nitride, high-purity calcia and magnesia MOS-HIGE(Fibrous magnesium oxysulfate) Smoke exhaust and water purification materials
Recycling and renewable energy	Advanced waste processing Recycled compound plastics (Colored recycled resin) Palm kernel shells (PKS) and other biomass materials



[Actively expand] Actively allocate necessary business resources to increase revenues and cash flow [Strengthen business platform] Allocate necessary business resources to strengthen revenues, derive benefits from past investments, secure revenues and cash flow, and strengthen business position

Field	Products	
Synthetic rubber	Butadiene rubber	
Lactam and nylon chain	Caprolactam, Ammonia sulfate, Nylon resins, Industrial chemicals (ammonia, nitric acid, oxalic acid, liquefied carbon dioxide, hydrogen peroxide) Lactam-based fine chemicals (diol, hydroxylamine sulfate, MEK-Oxime etc.)	
Polyimide chain	Polyimide (BPDA, film, 2-layer copper-clad laminate, shaped materials) Gas separation membrane	
Semiconductor, electronic, and optical materials	High-purity chemicals Phenol resins, Polymer processed products	
Cement and ready-mixed concrete	Cement, ready-mixed concrete, building materials	
Limestone, calcia, and magnesia		
Coal and power		
Machinery services		

Molding machinery, industrial machinery, steel products



Business Classification by Portfolio **Developing Fields**



Rapidly foster business segments in the developing field into strategic growth businesses or core platform businesses to achieve targets and secure sufficient profits

Field	Products
Aerospace	PETI (heat-resistant composite material) Polyimide foam Multi-layer insulation Tyranno fiber
Information electronics	MGC Light conversion materials SiAION (Silicon nitride ceramics) Porous Polyimide Membranes POMP(Porous polyamide powder) Hipresica (silica monodisperse fine powders)
Energy and environment	Next-generation battery materials Heliotropin (100% synthetic fragrances) Slide-ring materials Photocatalytic fiber



Strategic Growth, Core Platform Business: Other Specialty Products Businesses

Bearings

Oil field

Ceramics business

- Hybrid and electric vehicles: Power device substrate materials
- Clean diesel: Glow plug materials
- New energy: Ball bearing materials for wind power generation equipment Materials for solar cells manufacturing process
- Advanced lighting: LED phosphor materials

Gas separation membrane business

- Explosion-proofing for shale gas development and coal gasification: Nitrogen separation membranes, hydrogen membranes
- Natural gas and biogas separation: Decarboxylation membranes, etc.
- Bioethanol: Alcohol dehydration membranes

Semiconductor and electronic materials business

- High-luminosity white LED materials: Metal organic compounds
- Power-saving LSI process materials: Boron trichloride, high-purity chemicals (nitric acid, aqueous ammonia)
- Sealants for semiconductors: Phenol resins (Meiwa Plastics Industries, Ltd.)
 ⇒ Developing new application for use in shale oil field proppant



Glow plug

Increased demand for environmental and energy applications

Solar cells

Core Platform Business: Coal and Power

UBE

Business Strategy for Coal and Power

- Stable supply of competitive coal and electricity to the Ube Group
- Generate stable profits and cashflow
- Respond to energy and global environmental issues and pursue technology development

Current Business Conditions

- Rise in energy costs, due to increased demand from developing countries and review of nuclear policy across the globe
- Demand for solutions to global environmental issues

Okinoyama Coal Center



IPP power plant

Ube's office
 Source of imports

Actions on coal business

- Efficient operation of Okinoyama Coal Center
- Procure at competitive prices
- Use new biomass fuels, and develop technology for using lowgrade coal such as brown coal

Actions on power business

- Increase volume of low-grade coal and types of coal, and reinforce facilities
- Strengthen biomass mixed incineration, join mega-solar project
- Continue selling power externally (maximize the volume of power generation)

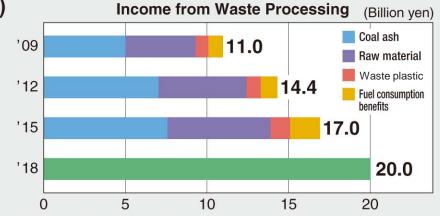


Advanced waste recycling (Demand for processing of waste in the process of production at cement kilns) Income from

Business Strategy for Cement Recycling

- Consolidate processing facilities
- Strengthen the collection of difficult to process waste
- Recycle waste for applications other than cement materials

Target processing income of ¥20 billion by fiscal 2018



Resin recycling (UBE Composite colored recycled resin)

⇒ Meet the growing demand for recycled plastic with its proprietary compound and dying technologies.

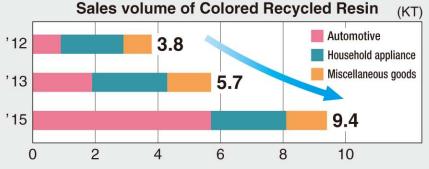
Strategy for Plastics Recycling Business

- Accommodate increased use of recycled materials in automotive sector
 - Strengthen production facilities
 - Strengthen the collection of recycling materials

Renewable energy business



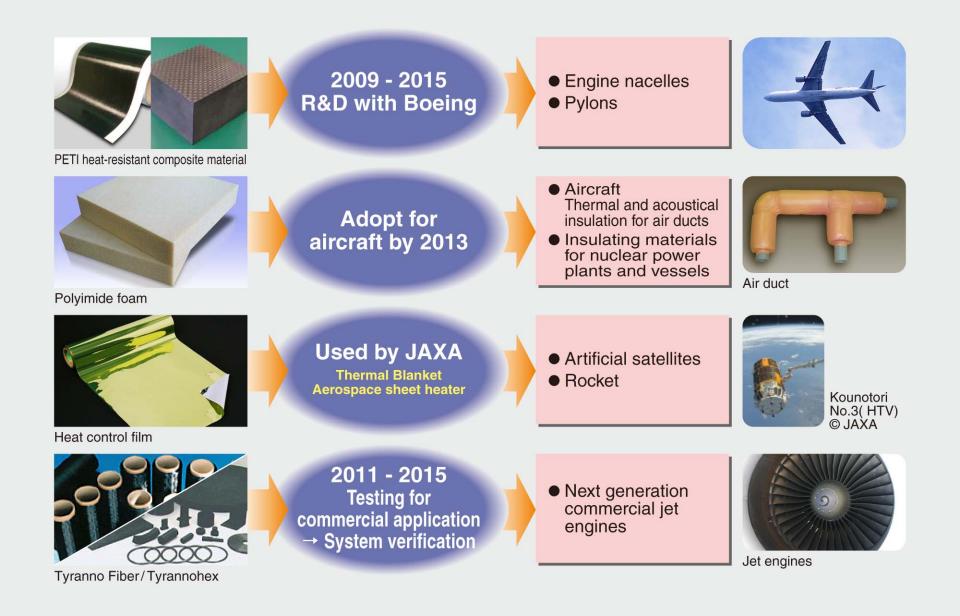
- Rapidly build up business for supplying biomass fuels based on proprietary technologies
- Mega-solar project using idle land



Developing Fields: Aerospace Field

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Developing Fields: Information Electronics Field UBE

 ϕ 3 inch

Wafer

New phosphor materials for next-generation LEDs

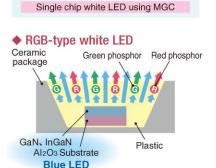
ZEBRIGHT[®] (MGC Light conversion materials)

 YAG phosphor for solid-state lighting made from proprietary melt growth composite with light-changing properties, for use in LEDs that offer extended brightness

SiAION Nitride phosphor (RGB-type white LED)

 UBE is developing nitride phosphors by leveraging the technology platform developed for silicon nitride, for use in next-generation LEDs that offer natural colors that closely resemble sunlight.





MGC light conversion material

100um

White light

YAG: Co phase (Converts blue light into yellow light)

ALO phase (Transmits blue light)

MGC applications

White LED chip

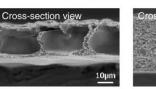
Oxynitride phosphors: yellow

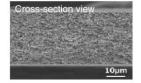
Porous Polyimide Membranes

• Excellent heat resistance, permeability, dimensional stability, and chemical stability, and controllable to realize a wide variety of

multiporous structures

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Macro Void (MV) type (Highly permeable, high void ratio)

Micro Porous (MP) type (High selectivity, high resilience)

Hipresica[®] (High-purity silica monodisperse fine powders)

 High-purity, spherical fine silica powders made using sol-gel method

Ingot

 Strong track record used as spacer material for LCDs. Offers diverse particle elasticity to match

element and wiring structures such as displays, touchscreen panels, and MEMS spacers.

Soft particles reduce damage to fine, multilayer wiring



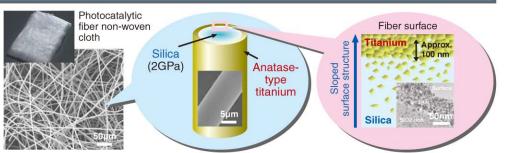
Developing Fields: Environment and Energy Field UBE

Photocatalytic Fiber

 Environmental purification catalyst which allows decomposition of all kinds of organic matter as well as various types of bacteria and viruses through oxidation using photocatalytic reaction

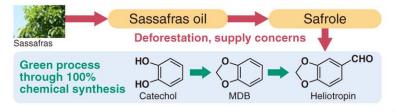
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 Specialty inorganic fiber notable for having a sloped surface structure achieved through continuous change in composition from silica (SiO₂) in fiber to titanium (TiO₂) on surface



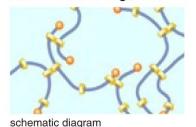
Heliotropin

- 100% chemical synthesis process helps protect forest resources by addressing deforestation and supply concerns associated with conventional manufacturing process using sassafras as an ingredient
- Uses eco-friendly H2O2 for oxidation



Slide-Ring Material®

 Excellent resiliency and impact absorption from deformities such as scratching.
 Developing applications for industrial products such as scratch-resistant specialty paints, elastomers, adhesives, and glues.





application example: automotive painting

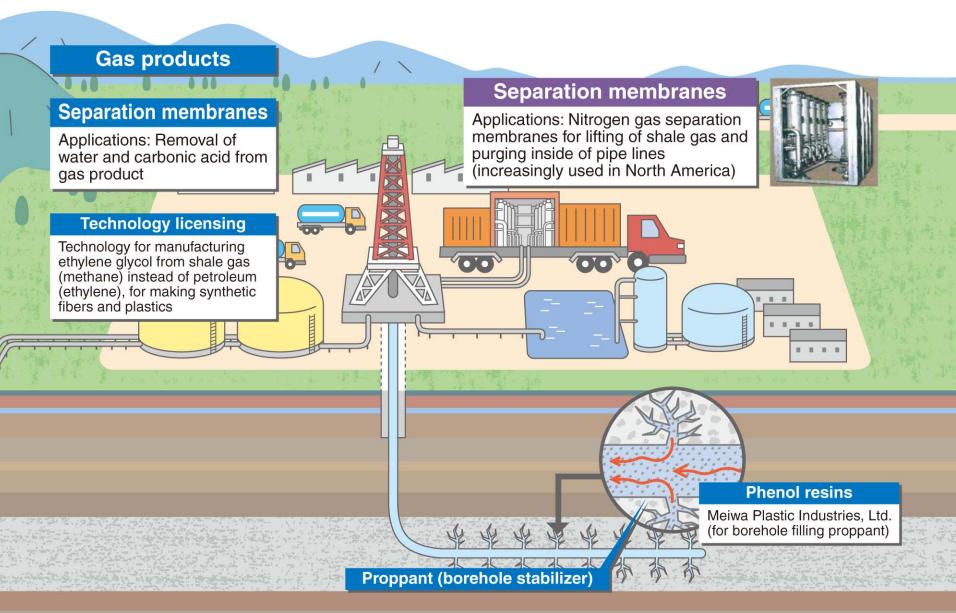
Next-Generation Battery Materials

 Development of next-generation battery materials, such as separators with new functional layers that further improve the safety and long life of LIBs, by leveraging technology and expertise developed for battery materials business

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Relationship to Shale Gas and Oil

UBE



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To provide customers additional value as a manufacturer and contribute to the global society

To create and enhance new value by actively seeking new challenges

To comprehend the essential issue deeply and act swiftly, thoroughly, and in a timely manner Wings of technology Spirit of innovation

The forecasts contained in this presentation are based on certain assumptions judged to be reasonable by the Company when preparing this report. Actual results can vary significantly from forecasts, due to changes in a wide range of conditions. These conditions can include the economic status of major markets, demand and supply of products, prices for raw materials and fuel, interest and foreign exchange rates, and other prevailing conditions that can impact the business results of the Company. ©2013 Ube Industries LTD. All Rights Reserved