Presentation Meeting

New Mid-term Management PlanSZ-20Phase II



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1. Results of Mid-term Management Plan SZ-20 for FY2011 through FY2013

2. New Mid-term Management Plan SZ-20 Phase II for FY2014 through FY2016





1. Results of Mid-term Management Plan SZ-20 for FY2011 through FY2013

2. New Mid-term Management Plan SZ-20 Phase II for FY2014 through FY2016

SZ-20 (FY2011–FY2013) Basic Policy



Further Strengthen our Elastomer Materials and Specialty Materials Businesses for Globally Expanding Operations



Elastomer Materials Business

Specialty Materials Business

Further strengthen competitive businesses by responding globally to growth markets Expand operations by accelerating R&D in three key fields

SZ-20 (FY2011–FY2013) Benchmarks



	FY2010 Results	FY2011 Results	FY2012 Results	FY2013 Results	FY2013 Initial Target
Net sales	270.4 billion yen	262.8 billion yen	250.8 billion yen	296.4 billion yen	320.0 billion yen
Capital investment	10.3 billion yen	73.6 billion yen (Total for three years)		100.0 billion yen (Total for three years)	
Overseas production ratio	18%	19%	21%	22% Forecast	_

- Initial target for net sales not attained
- Target for capital investment not attained due to revisions in the plan and delays

SZ-20 (FY2011–FY2013) Consolidated Net Sales

Results in the Specialty Materials Business fell far short of the target, so the net sales target was not attained.



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SZ-20 (FY2011–FY2013) Development of a Global Network ZEON

Overseas production bases commenced operations more or less as planned



SZ-20 (FY2011–FY2013) Economic Environment ZEON

Exchange rates took a favorable turn but the synthetic rubber market remained stagnant

Natural rubber, synthetic rubber and BD markets

(US\$/mt)







Natural rubber market – Singapore Commodity Exchange nearby contract price for RSS #3 grade rubber (Source: Monthly Statistics Report for Synthetic Rubber) NBR Market – CFR Southeast Asia (Source: ICIS) Spot BD – CFR Taiwan (Source: PLATTS) Exchange rates (Source: Mizuho Bank, Ltd.) Domestic naphtha price (Source: calculation by ZEON based on trade statistics)

SZ-20 (FY2011–FY2013) Results



- Initial target for net sales not attained
- Results for the Specialty Materials Business fell far short of the target
- Target for capital investment not attained due to revisions in the plan and delays
- Operations at overseas production bases commenced more or less as planned
- Product markets remain stagnant and we have not yet developed a system that can fully respond to the changing market environment



1. Results of Mid-term Management Plan SZ-20 for FY2011 through FY2013

2. New Mid-term Management Plan SZ-20 Phase II for FY2014 through FY2016

Outlook for the Business Environment



Globalization

Growth in emerging nations

Explosive population growth in China, India and Africa Economic growth rate: Emerging nations > Developed nations

Flattening of the economy (instant ripple effect)

IT Trends

Evolution and expansion of the information society

Broadband will serve as the premise of future systems Increase in cloud computing Big Data (exponential growth in data volume) Change in communication styles (mobility)

Environment and Energy

Emphasis on sustainability

Expansion in renewable energy and natural energy Greater use of shale gas and reduced supplies of some raw materials Improvements in electricity storage and generation technologies

Decline in Japan's international competitiveness (falling population, low-growth economy, persistently high electricity costs)

New Mid-Term Management Plan Concept



"Changing" the company to realize the Enterprise Blueprint for 2020



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SZ-20 Significance of Phase II



Taking on challenges as a second step toward realizing the Enterprise Blueprint for 2020







Further Strengthen our Elastomer Materials and Specialty Materials Businesses for Globally Expanding Operations

Strategy by Business Segment

Elastomer Materials Business

Specialty Materials Business

Further strengthen competitive businesses by responding globally to growth markets

Expand operations by accelerating R&D in three key fields



Strategy by Business Segment

Elastomer Materials Business

Further strengthen competitive businesses by responding globally to growth markets **Specialty Materials Business**

Expand operations by accelerating R&D in three key fields



Optimize product lineup by responding to the material procurement environment, revising the production system, etc.

Production of ethylene and butadiene in Japan

ZEON's production capacity for synthetic rubber

(t/year)



ZEON estimates for 2014 and beyond (Source: Ministry of Economy, Trade and Industry statistics)

	Japan	United States	Others
E-SBR	80,000		
S-SBR	55,000		35,000
BR	65,000		
NBR	60,000	15,000	15,000
HNBR	4,500	5,000	
IR	40,000		
ACM	8,500	8,500	
Others		10,000	

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Strengthening the Nitrile Butadiene Rubber (NBR) Business



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Elastomer – Expanding the Acrylic Rubber Business

Following business integration with Tohpe, consider expanding production capacity in response to the expanding acrylic rubber market





Trend for fuel efficiency leads to increase in vehicles equipped with a turbo system

Greater use of heat-resistant, acrylic rubber hose

Consider boosting production capacity in line with market expansion

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Expand business for surgical glove material (E-IR)



2014

2012

0

2010

(Source: ZEON estimates)

2016

Surgical glove



Developing ZEON's unique isoprene extraction technology for overseas businesses





ZEON's SIS sales plan and production capacity

Global market for adhesive tape

Index based on a scale where FY2000 is 100



(Source: ZEON estimates based on data provided by The Freedonia Group)

Index based on a scale where FY2013 sales volume is 100



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250

20

Elastomer – Global Response to Growth Markets



S-SBR Singapore Plant – Completed in April 2014, expansion planned for 2016



S-SBR (Solution-polymerized Styrene-Butadiene Rubber)

Singapore Plant Second Line (Scheduled to begin operations in 2016)

Singapore Plant Mass production of four core products Transfer production from the Tokuyama Plant

Tokuyama Plant

Mass production of special grade products Test production of new products \rightarrow Launch \rightarrow Mass production (pilot plant)



Laboratory

Development of new products



Strategy by Business Segment

Elastomer Materials Business

Further strengthen competitive businesses by responding globally to growth markets **Specialty Materials Business**

Expand operations by accelerating R&D in three key fields

Specialty Materials – Basic Strategy





Basic Policy

- Promote R&D in three key fields through the establishment of marketing and R&D bases on a global scale
- Create high value-added products that can withstand economic fluctuations
 Do not imitate: Apply the "Only One" concept for products based on technological strengths
 Be inimitable: Protect facilities and processes as "black boxes," an exclusive patent
 portfolio, and vertical integration of technological strengths





Specialty Materials – IT Components (Optical Applications) ZEONOR Film[®]





Specialty Materials – ZEONOR Film[®] Business Development (TV Market)





Specialty Materials – ZEONOR Film[®] Business Development (Small and Medium Markets)





Achieve business expansion that exceeds market growth by developing functional binders

Sales of ZEON battery materials



Note:

The index is based on a scale where FY2010 is 100; market value is based on a report by three Japanese companies (November 2013)

Specialty Materials – Energy Components



Aiming for greater battery capacity while applying the knowledge we have gained through our pioneering technology in the binder business

Negative electrode binder



ZEON products for lithium-ion batteries

Specialty Materials – Medical Device



Sales of ZEON medical devices

Index based on scale where sales for FY2010 is 100



Priority Issues

- (1) Launch new products and improved products
- (2) Enhance quality
- (3) Overseas development

Circulatory System

- IABP (auxiliary circulation)
- PTCA balloon catheters



Gastrointestinal System

- Bile stone extraction (ERCP): EX balloon, extraction basket, lithotripsy basket, etc.
- Digestive tract: Bipolar high-frequency surgical knives, snares, hemostatic clips, etc.
- Biliary system: biliary stents, tubes, etc.



Specialty Materials – Development Example

CARBON NANO TUBE (CNT) UNDER REVELOPMENT



NUMEROUS DIFFERENTIATING CHARACTERISTICS

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Specialty Materials – Development Example

CNT APPLICATIONS



Electrical resistance comparable to copper with a current density that is 100 times greater, with physical properties that challenge global conventions

AI-CNT composite material



Four times greater thermal conductivity compared to aluminum



Rubber-CNT composite material



No electrical resistance when stretched

Improves rubber properties with minimum addition

Soft and as thermally conductive as iron

Source: AIST Technology Research Association for Single Wall Carbon Nanotubes

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CNT BUSINESS REVELOPMENT

Enterprise Blueprint for 2020

CNT business aims to contribute to consolidated net sales, targeting 500 billion yen



Create new business

Develop new technology

Integrate with existing

businesses



Strengthen new business





Enhance functionality of rubber components

1 cm

Strengthening Cost Competitiveness





Business Targets



Targeting 500 billion yen in consolidated net sales in FY2020



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Business Culture





Increase decision making speed

Raise operational efficiency

Encourage dialogue

Nurturing a culture of change Create major change

Think and act on individual initiative

Cooperation and teamwork through dialogue

Diversity of ideas

Self-initiative based on self-identity

Promoting the Torch Activities Thorough commitment to safety and health

Zero industrial

accidents

Zero abnormalities in

key processes

Self-management of health

Nurture a business culture based on "visualization" to achieve our Enterprise Blueprint for 2020

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Activities aimed at achieving the Enterprise Blueprint for 2020 through the efforts of each individual and beginning with expressing "what I value," "what I want to do" and "what I want to become," leading to awareness, contemplation and action.

This individual change can be described as lighting a single torch that can catch on and spread, and we have named it the "Torch Activities" to reflect our passionate aspirations.



Torch:

A guiding light for our future goals; a light that makes our uncertain foothold visible and provides warmth, heat, energy and brightness (joy); a flame keeps us moving



Mutual trust and fellowship

ZEON's plans, forecasts, and other data appearing in this presentation were calculated based on information which was currently available and therefore includes risks and uncertainties. Actual results may differ depending on various factors.

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