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Sphere of New Mid-term Management Plan



Corporate Philosophy

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Enterprise Blueprint for 2020

Zeon makes the Future Today through the Power of Chemistry.

Zeon will continue to contribute to the realization of customer dreams and a prosperous society through employees' individual growth.

Vision

Key Sense of Value

Speed

Dialogue

Social contribution

Treasured Zeon Characteristics

Mutual trust and Confidence among Zeon Members

SZ-20 (2011–13) Phase II (2014-16) Phase III (2017–20)



Corporate Philosophy

Zeon is contributing to the preservation of the Earth and the prosperity of the human race.

Zeon, with its name from the words signifying the Earth (geo) and eternity (eon), is committed to responsible stewardship of the global environment as the foundation for human prosperity through the development and application of unique, world-leading technologies.

Zeon CSR Policy

- We will ensure compliance and meet society's needs for safety and security
- We will contribute to sustainably developing society and protecting the global environment through our corporate activities
- We will ensure that each and every Zeon person is aware of CSR and acts accordingly



Enterprise Blueprint for 2020

Zeon makes the Future Today through the Power of Chemistry.

Zeon will continue to contribute to the realization of customer dreams and a prosperous society through employees' individual growth.

Targeting consolidated net sales of over 500 billion yen in FY2020



SZ-20 Phase III: Groupwide Strategy

Growth

- 1. Reinforce the combined strengths of the Zeon Group. Explore ways of going beyond boundaries and collaborating with external players to provide solutions globally as a contribution to society
- 2. Accelerate the pace of new business creation and product development in key development areas: global environment, smart devices, and health and living.

Culture

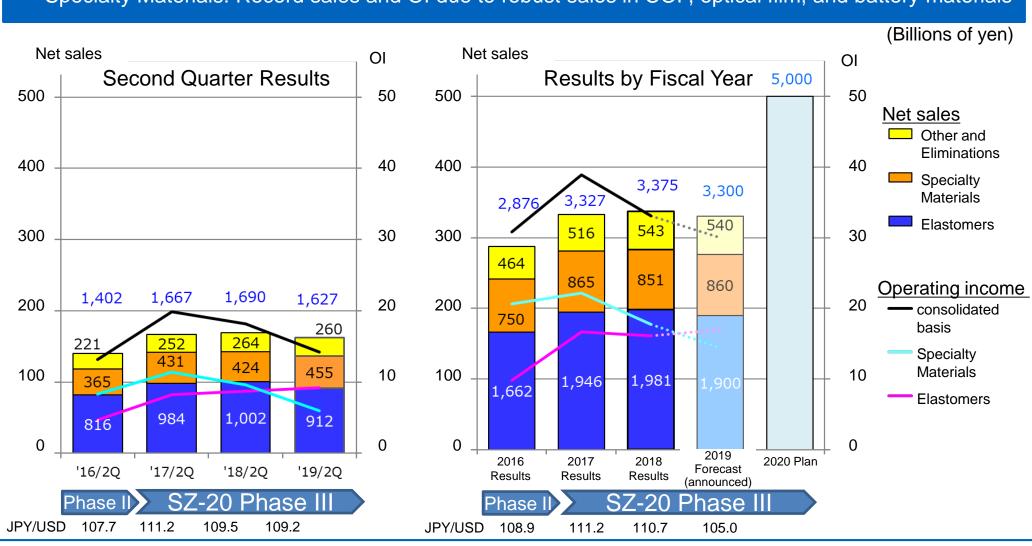
3. Cultivate a corporate culture that places value on taking proactive action by harnessing diverse ideas and trying them.

Zeon Group Financial Results



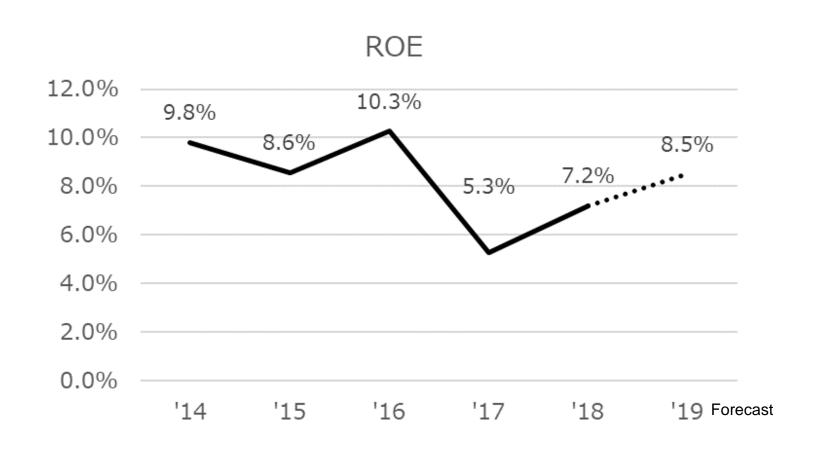
Due to the global economic slowdown, sales was flat and operating income (OI) was lowering in 2Q.

- Elastomers: Decline in sales and OI due to slowdown in automotive and industrial use
- Specialty Materials: Record sales and OI due to robust sales in COP, optical film, and battery materials





No more impairment losses at the Singapore subsidiary. Expect ROE to recover to 8% or higher in FY2019. Aiming to recover to SZ-20 Phase II levels.



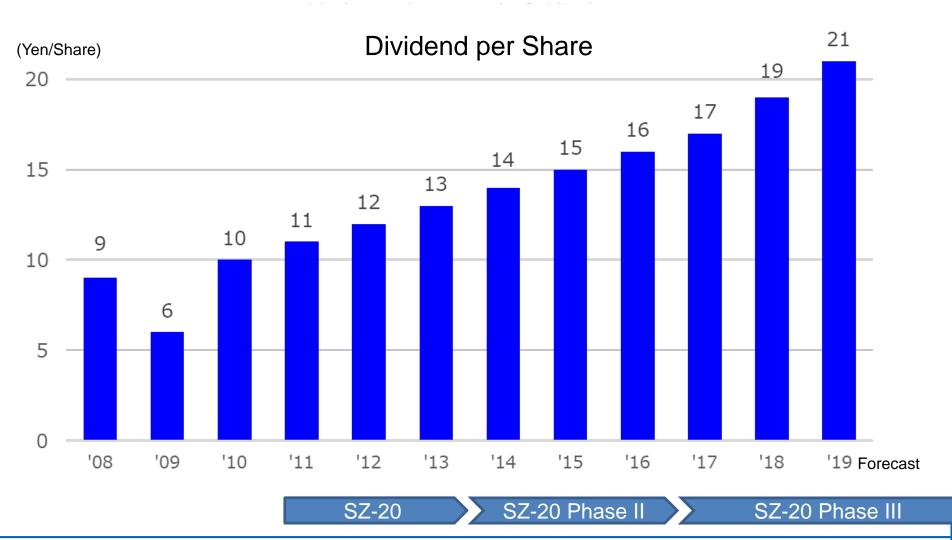
SZ-20 Phase II

SZ-20 Phase III

Shareholder Returns



Offering stable and consistent dividend payments to shareholders; dividends increase for tenth consecutive fiscal year





1. Overall Progress of Phase III

2. Business Topics

- **1** Elastomer Business
 - **◆** Investments
 - **♦** Topics: Specialty rubbers, S-SBR
- ② Specialty Materials Business
 - **◆** Investments
 - Topics: COP, energy materials, electronic materials, Medical devices
- **3 Others**
 - **♦** CSR



Strategy by Business Segment

Elastomer Business

- Reinforce competitive businesses by responding globally to growth markets and raising cost effectiveness.
- Explore new opportunities and achieve growth based on the Zeon's reputation in the market and relationships with customers

Specialty Materials Business

• Expand business in step with the speed of market growth and technological progress through focused investment of resources and stronger collaboration with outside players.

Business Topics: Elastomer Business



- ◆ Investments
 - Specialty rubbers (HNBR, acrylic rubber)
- ◆ Topics
 - Specialty rubbers
 - ◆ S-SBR

Strategy of Elastomer Business

- Reinforce competitive businesses by responding globally to growth markets and raising cost effectiveness.
- Explore new opportunities and achieve growth based on the Zeon's reputation in the market and relationships with customers



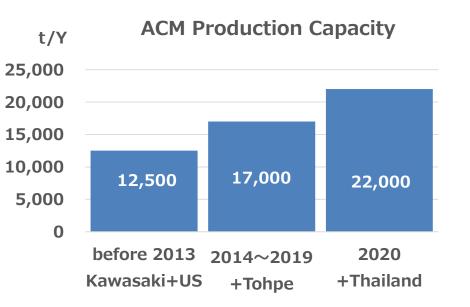
Investments



	Capacity	Completion
Drying facility for Zetpol® specialty cross-linked type at Kawasaki plant (Apr. 2018 press released)	x1.5 of dry products	Sept. 2019
Acrylic rubber (ACM) manufacturing plant in Thailand (Aug. 2018 press released)	5,000t/Y	Spring 2020



Construction of ACM plant in Thailand

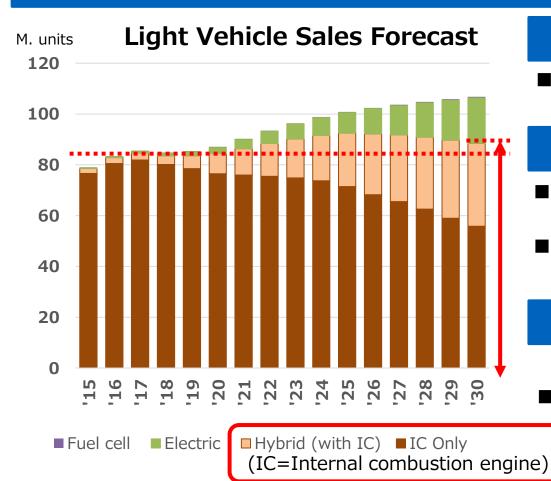


Topics: Specialty Rubbers



Unit sales of internal combustion engine vehicles to remain constant in the near future

⇒ We support the industry with a stable supply of specialty rubber



Zetpol®

 Steady growth in specialty crosslinked type

Acrylic Rubber

- Currently producing 17,000 tons/year at 3 bases in Japan and the US
- Spring 2020: a new plant in Thailand (5,000 tons/year) to be completed

Asia Technical Support Lab.

(started in 2017)

Actively engaged in customer support
and related sales of Zeon's rubbers

[&]quot;Source: LMC Automotive's quarterly Global Hybrid and EV Forecast (published in December 2018)

Topics: S-SBR



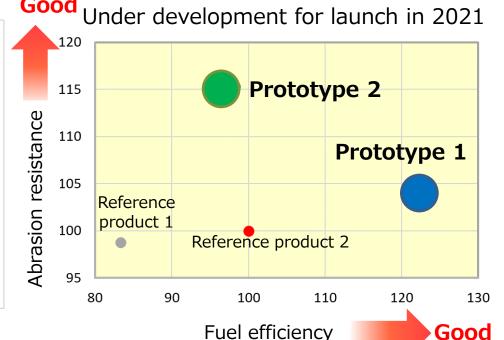
Leveraging synergistic effects in technology and production to become the global leader

By combining the polymer modification and production technologies of Zeon and Sumitomo Chemical, we will enhance the <u>fuel efficiency</u> and <u>abrasion resistance</u> of tires.

S-SBR Sales

116 112 107 100 Sales volume index FY2017 as 100 2017 2018 2019 P 2020 P 2021 P

Synergy Polymer



Business Topics: Specialty Materials Business



- **◆**Investments
 - ◆Specialty plastics (COP, Optical films)
- **♦**Topics
 - **♦**Specialty plastics
 - Energy materials
 - **♦**Electronic materials
 - ◆Medical devices

Strategy of Specialty Materials Biz.

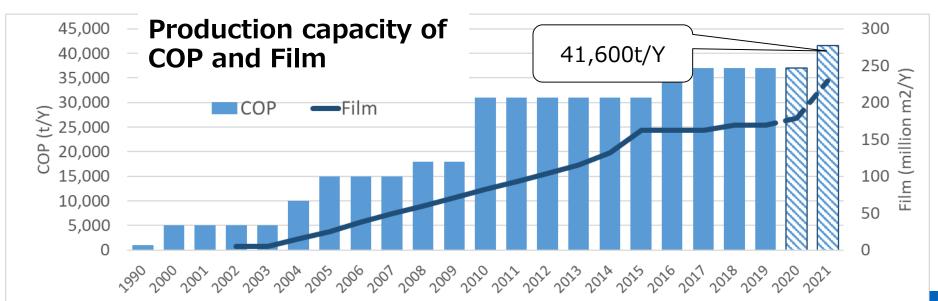
 Expand business in step with the speed of market growth and technological progress through focused investment of resources and stronger collaboration with outside players.



Investments



	Capacity	Completion
Expand production capacity for extruded film in Takaoka (Oct.2018 press released)	I	Spring 2020 (plan) operation starts
New manufacturing line of retardation films for large-screen TVs in Tsuruga (Oct.2018 press released)	50 million m ² /Y	Apr. 2020 (plan) operation starts
Expand COP production capacity in Mizushima (Sep.2019 press released)	4,600t/Y	Jul. 2021



Strengths of Zeon's Optical Film Business



Raw Materials

■ Dicyclopentadiene produced by Zeon's own GPI Process

Polymer itself

- Resistant to heat and moisture
- Easy to process

پ 200 ک New region not PES covered by (Heat distortion temperature, Heat resisting property conventional resins PAR PEEK 150 POM **ZEONOR® PPS** 100 **PMMA** ABS PVC 50 0.05 0.5 0.01 0.1High Low Polarity (Water absorption, %) Crystalline

Processing Technology

Melt extrusion and film stretching

Integrated Production

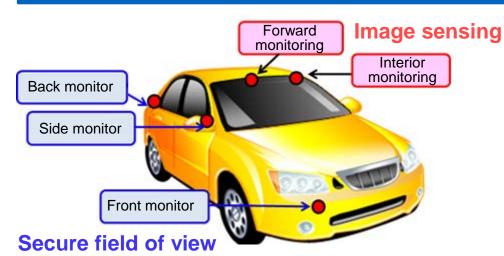
■ Integrated production of polymer design, film manufacturing and processing
→ Market needs are reflected in polymer design



Topics: Specialty Plastics Business



1. T62R selected for use in automotive sensing cameras



- T62R is a new grade featuring low deformation and color change under high temperatures
- Selected for use in automotive sensing cameras

ZEONEX® has a proven track record

2. Presented the advantages of using the COP for medical and pharmaceutical applications (pre-filled syringes)

- Presented the characteristic of COP as plastic for pre-filled syringes to the U.S. FDA (May 2019)
- Delivered a presentation at PDA (an academic conference on prefilled syringes) (Sweden, October 2019)
 - Transparency, high purity, low water absorption, and chemical stability equivalent to glass
 - ➤ Higher mechanical strength and extremely low protein adsorption and aggregation compared to glass



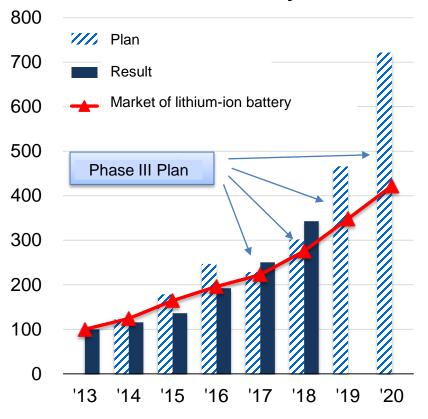
Pre-filled syringe

Topics: Battery Materials



Continues to grow beyond the market growth

Sales Forecast for Battery Materials



Index: FY2013 = 100

Source of market data: B3, Inc. report

Characteristics of Zeon Products

Anode binder

Reducing electrode swelling during charge/discharge cycle.

→ Durability and safety

Functional layer binder

The demand is growing esp. in EV market since the launch in 2015.

→ Safety

Cathode water-based binder

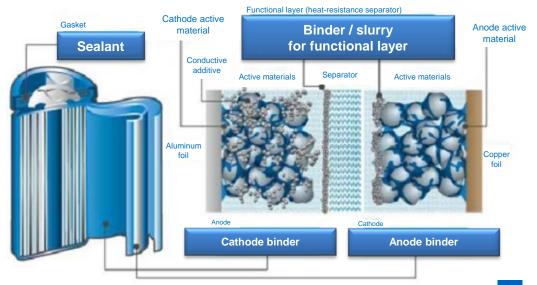
Preventing side reaction inside batteries by covering active materials

→ Durability

Sealant

Preventing electrolyte leaks

→ Durability



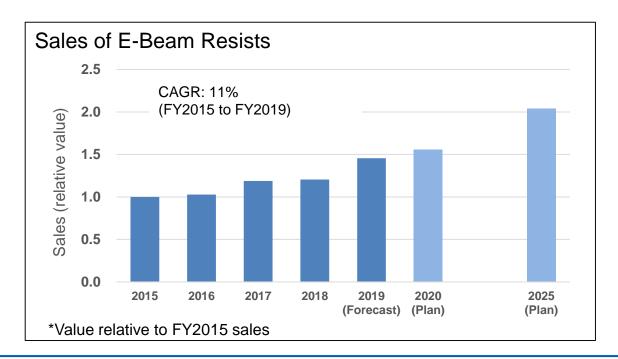
Topics: Electronic Materials

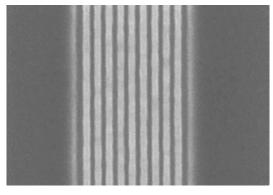


Launched a positive electron beam photoresist for next-generation electronic components

Characteristics of ZEP530A

- Suitable for compound semiconductors (high-frequency, high-voltage applications)
- Main chain scission-type positive photoresist
- Ultra-fine resolution (hp 17 nm L/S)
- Superior dry etch resistance and wide processing margin





Top-view scanning electron microscopic image

Applications in compound semiconductor processing

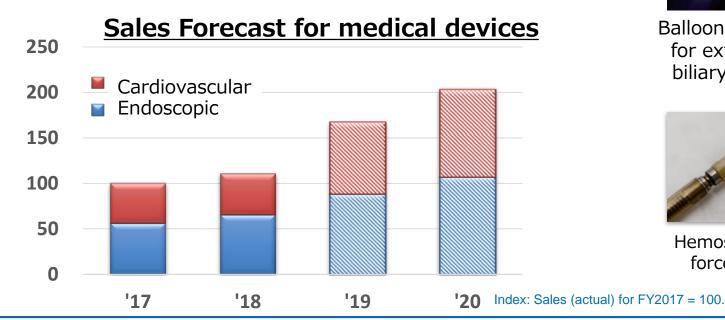
- 5G semiconductors (high-frequency application)
- Power semiconductors (high-voltage application)

Topics: Medical devices

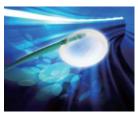


Expanding business by new products launch

- Cardiovascular Business: FFR devices with optical fiber sensors (launched in 2016)
- **Endoscopic Business:**
 - Balloon catheter for extracting biliary stones, Biliary stents (launched in 2018)
 - Hemostatic forceps, Clips (plan to launch 4Q-2019)







Balloon catheter for extracting biliary stones



Biliary stents



Hemostatic forceps



Clips



Signing the UN Global Compact

WE SUPPORT



Zeon supports the 10 Principles of the UN Global Compact and respects global standards in promoting corporate activities to realize a sustainable society.

Mizushima Plant dormitory in Okayama constructed with the CLT method



The equivalent of 4.9 million m² of thinned wood from Okayama Prefecture was used.







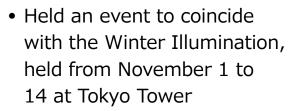
Continuing voluntary activities in the Tohoku region



In the seven years since October 2012, Zeon has organized 66 activities in which a total of 520 employees have participated. The focus has recently turned to supporting agriculture and fisheries. 14 bit of 17 PARTICIPATION 17 P



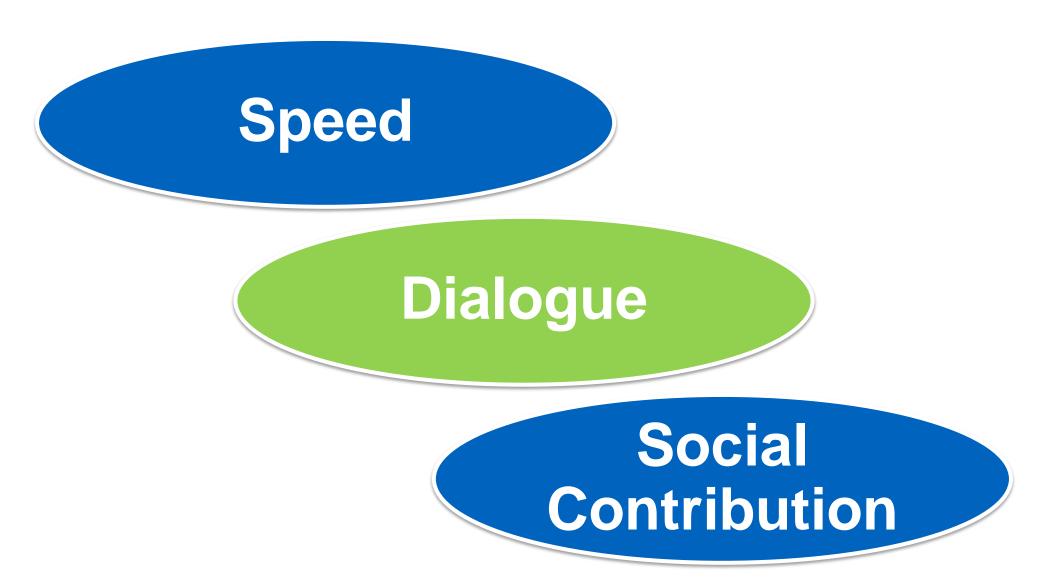












Mutual trust and confidence among Zeon members

ZEON

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.