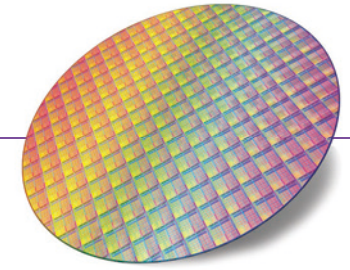


# Business Strategy

## Digital Solutions Business ~Semiconductor Materials~



### Corporate Issues

The semiconductor market is expected to grow in line with the full-scale introduction of 5G, IoT, and autonomous driving. Consequently, it is likely to bring about major changes in a wide range of fields including electronic components, industrial equipment, and automobiles. JSR is contributing to transformation in this field by developing cutting-edge materials that support semiconductor evolution and offering these to semiconductor manufacturers around the world.



### Semiconductor Materials Business Approach

JSR Group will develop and provide cutting-edge materials that contribute to the evolution of semiconductors in a growing market driven by innovations in digital technology, such as with the development of IoT and 5G. In advanced lithography materials for the 10 nm node, we continue to maintain a large share of the global market. In addition, we are focused on product development and improvement of production technologies for EUV (extreme ultraviolet) photoresists, which are now being used for high volume manufacturing in 7 nm node devices.

We continue to expand our product portfolio with peripheral materials including CMP materials, cleaning solutions, and advanced packaging materials.

### Initiatives

Amid expectations of heightened semiconductor demand driven by faster communication speeds and increased data communication and capacities, the Semiconductor Materials Business is working to maintain and expand its share of the cutting-edge lithography materials market, which encompasses state-of-the-art 7 to 10 nm node processes. The Group is also putting resources into the development and sales of EUV lithography materials for 5 nm and subsequent node processes. At the same time, JSR Group is concentrating on enlarging sales of semiconductor peripheral materials, especially advanced packaging materials, cleaning solutions, and CMP materials used in cutting-edge semiconductor manufacturing, and broadening its product portfolio to achieve business growth that outperforms market growth. A newly constructed plant for functional cleaning solutions for state-of-the-art semiconductors in the U.S. is aiming to start up operations in FY2020. The new plant will establish a supply framework of functional cleaning solutions for state-of-the-art semiconductor manufacturing processes, as JSR Group endeavors to further expand its business in semiconductor materials.

### Progress of Mid-Term Business Plan

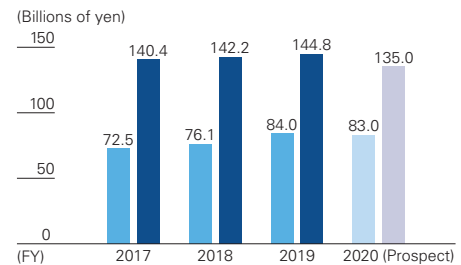
#### Operating Results for FY2019

Although the semiconductor memory market remained sluggish, logic devices began to recover in the first half of FY2019. Year-on-year revenues were up, bolstered by strong sales of state-of-the-art photoresists and expanded sales of new products such as EUV photoresists and cleaning solutions. The Semiconductor Materials Business was largely unaffected by COVID-19, which began affecting other markets in the last few months of FY2019. Operating profit increased despite greater costs associated with expanding sales of cleaning solutions. As a result of the above, revenue for the Digital Solutions Business for the fiscal year under review was 144,805 million yen (a 1.8% year-on-year increase) while operating profit was 30,917 million yen (a 5.3% year-on-year decrease).

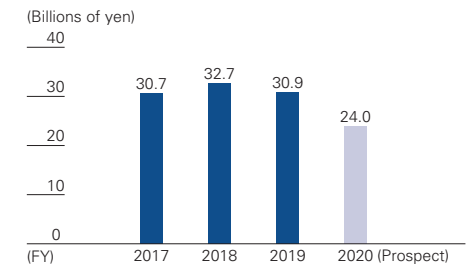
#### Progress under the JSR20i9 Mid-Term Business Plan

The Semiconductor Materials Business achieved sales growth outperforming the market through the expansion of sales of peripheral semiconductor materials, such as CMP materials, highly functional cleaning solutions, and advanced packaging materials, in addition to lithography materials, especially JSR's globally competitive state-of-the-art photoresists. EUV photoresists Manufacturing & Qualification Center N.V. – a joint venture manufacturing EUV photoresists that was set up in Belgium with imec, a research institute in cutting-edge nanoelectronics technology– began production in 2017 and is steadily increasing the supply of EUV lithography material products that support 5 nm and subsequent node processes for cutting-edge semiconductor manufacturers.

#### Revenue



#### Operating Profit



\* Digital Solutions Business: Semiconductor Materials  
■ Digital solutions business in total

\* Totals for Digital Solutions Business segment  
\* Standalone operating profit for the Semiconductor Materials Business is not disclosed

\* FY2020 forecasts are as of April 2020. Please refer to the JSR website ([https://www.jsr.co.jp/jsr\\_e/ir/library/presentation.html](https://www.jsr.co.jp/jsr_e/ir/library/presentation.html)) for the latest forecasts.

## Business Strategy

### JSR Sustainability Challenge

Negative impacts identified in the Semiconductor Materials Business segment were the use of solvents and emissions-regulated chemicals in the manufacturing process and the use of some non-recyclable packaging in transportation. The Group is working to replace emissions-regulated

substances. At the same time, JSR products contribute to the miniaturization of semiconductors and the realization of high-performance GPUs and AI chips which reduce power consumption and boost the energy efficiency of semiconductor chips, thereby having a positive impact on society.

#### Negative impact



**Need for early response to environmental regulations requiring alternative materials**  
**Addressing PFOS Issues**

Solvents used in semiconductor materials manufacturing and minute amounts of chemicals that carry environmental emission regulations have been identified, and JSR is taking measures in accordance with regulations. One example of a regulated chemical is perfluorooctane sulfonic acid (PFOS), which cannot be emitted into rivers or the ocean. Regulations are becoming more stringent worldwide, particularly in Europe. While customers sometimes demand the discontinuation of such substances, it is also essential for each material manufacturer to take the initiative in addressing these issues, and so JSR is working to find alternative materials in line with global standards.

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**Power consumption of clean rooms used in manufacturing**

Clean rooms used in the manufacture and evaluation of high-quality semiconductor materials consume considerable power. However, since such clean rooms are operated at levels similar to surrounding temperatures and since they occupy limited floor space, JSR believes their environmental impact is limited.

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**Managing solvents and packaging used in product manufacturing and transportation**

Solvents and by-products used to manufacture semiconductor materials which are not part of the final product end up as waste, and either their disposal is outsourced or they are incinerated on-site. In addition, since semiconductor materials are light-sensitive and require controlled temperatures, they are carefully packaged using various materials. While some materials can be recycled, others cannot, and may end up as waste at the place of sale. JSR Group is working to reduce waste and increase the recycling rate of materials.

#### Positive impact

**Improving nanotechnology to reduce power consumption**

Every generation in semiconductor development has seen remarkable advances in terms of greater integration through miniaturization and more power-saving designs. High-performance semiconductor chips used in servers, data centers, and other applications can significantly lower power consumption. JSR contributes to the reduction of power consumption by providing materials that enable miniaturization.

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**Energy efficiency through replacement with GPUs or AI chips**

Development of semiconductor chips that can dramatically boost energy efficiency is underway. A prime example is AI chips, which have recently garnered attention. The amount of power needed for image recognition can be reduced to 1/10 or 1/100 of that required by conventional CPUs using AI chips specially designed for GPUs<sup>\*1</sup> and neural networks<sup>\*2</sup>. It was reported in the scientific journal *Nature* that cutting-edge neural chips can improve energy efficiency by up to 280 times. JSR is contributing to greater energy efficiency of semiconductor chips through its materials development.

\*1 GPU: A semiconductor chip that performs the calculations required to render 3D graphics.  
 \*2 Neural network: A mathematical model that imitates the configuration of nerve cells (neurons) in the brain.

Business Strategy

# Digital Solutions Business ~Display Materials~



Corporate Issues

The spread of 8K broadcasting technology is fueling continued growth in the LC panel market and creating demand for new LCDs with high resolution, high brightness and lower power and energy consumption. JSR will continue to offer customers solutions that fully leverage its new digitalization-centered development methods.



Officer in charge of Display Solution Business  
**Keisuke Wakiyama**

Display Materials Business Approach

LC panel manufacturing typically uses a high-temperature curing process ranging from 200°C to 250°C. JSR has developed new alignment films and peripheral materials that reduce environmental impact in the manufacturing process by enabling lower-temperature curing and launched sales of vertical alignment films last year. The Group will develop and supply innovative materials used to make 4K, 8K and other high-resolution LCD panels, and enhance business sustainability through the development and marketing of new products such as organic EL panel materials.

Initiatives

Targeting continued growth potential for LCD panels in the Chinese market, JSR will maintain its focus on sales of competitive alignment films and insulating films for wide-screen LCD panels while addressing structural changes in customer industries. To this end, business management functions were transferred from Japan to China, the main market, and a system was put in place to enable efficient information gathering and quick, frontline decision-making in that market. In addition, sales offices were established in Beijing, Hefei, Chongqing, Fuzhou, Shenzhen, and Guangzhou to reinforce sales and technical services, while a new technical center in Shanghai reinforces technical support capabilities.

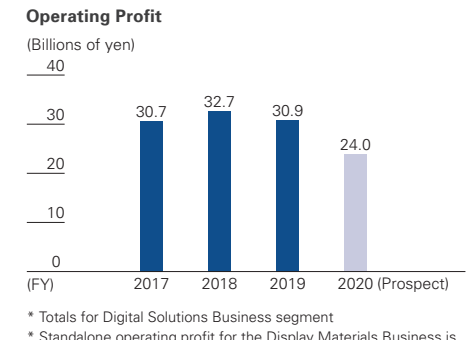
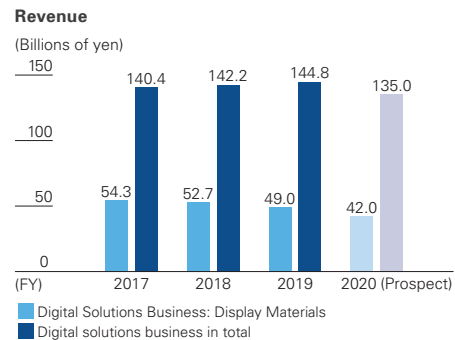
Progress of Mid-Term Business Plan

Operating Results for FY2019

Sales volume of alignment films and insulating films for wide-screen TV LCD panels for the Chinese market grew, but the impact of operational adjustments, including the abandonment of production by some customers amid structural changes including the shift of LCD production to China, resulted in lower revenues from the previous fiscal year. This fall in revenue and other factors also caused a decline in operating profit from the previous fiscal year.

Progress under the JSR20i9 Mid-Term Business Plan

JSR focused resources on the Chinese market, where LCD panel production volumes are growing, and expanded sales of its competitive alignment films and insulating films intended particularly for wide-screen ultra-high-resolution LCD panels. JSR Micro (Changshu) Co., Ltd., a joint venture manufacturing company established to promote sales in the growing Chinese market, is expanding production of display materials. At the same time, many South Korean and Taiwanese LCD panel makers who buy JSR display materials have begun adjusting or preparing to shut down production line operations due to their waning competitiveness in the face of Chinese manufacturers.



\* FY2020 forecasts are as of April 2020. Please refer to the JSR website ([https://www.jsr.co.jp/jsr\\_e/ir/library/presentation.html](https://www.jsr.co.jp/jsr_e/ir/library/presentation.html)) for the latest forecasts.

\* Totals for Digital Solutions Business segment  
\* Standalone operating profit for the Display Materials Business is not disclosed

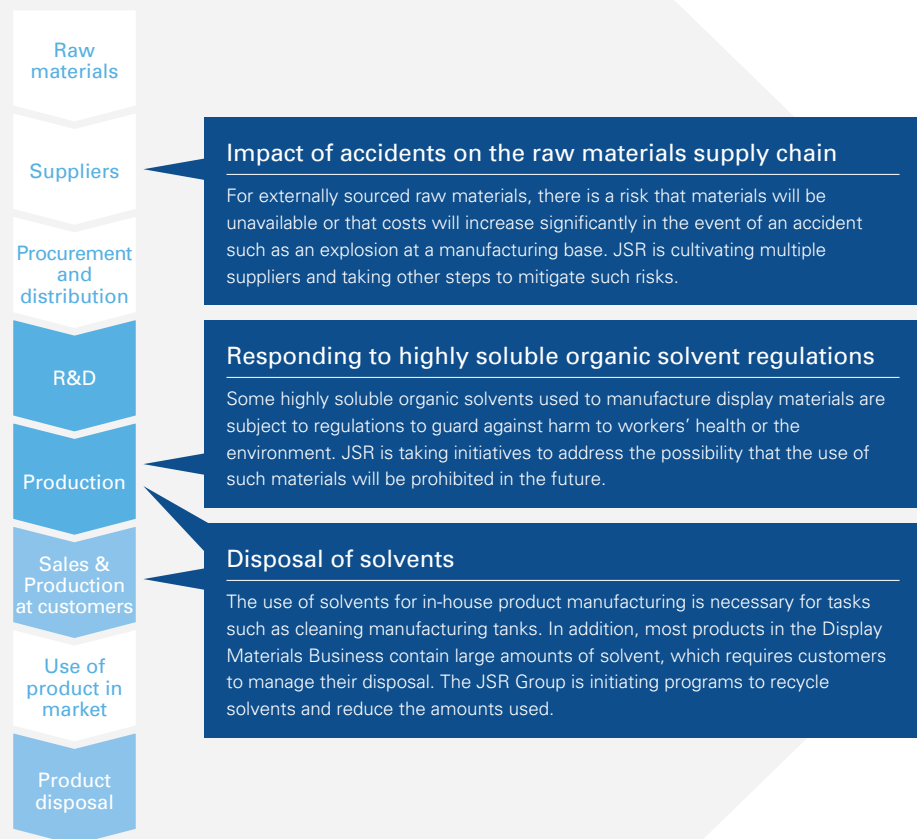
## Business Strategy

### JSR Sustainability Challenge

Negative impacts identified in the Display Materials Business segment included highly soluble organic solvents subject to regulations that are used to manufacture products, as well as the fact that, since most products contain solvents, waste is inevitably generated when they are used by customers. There is also a need to address the risk that some necessary raw materials could become unavailable due to accidents or other interruptions in the supply chain. JSR is exploring

alternatives to highly soluble organic solvents and expects to expand their use going forward. JSR is also advancing products that enable customers to use low-temperature curing in LC panel manufacturing and developing new alignment films that increase the brightness of LCDs. In these ways, the Group is contributing to reducing power consumption.

#### Negative impact



#### Positive impact

##### Anticipated need to respond to highly soluble organic solvent regulations

While the use of organic solvents is currently not fully prohibited, JSR has been exploring alternative solvents in anticipation of possible prohibitions in the future and is prepared to offer these to customers. Marketing has not yet begun, but strong future growth in this area is expected as greater emphasis is placed on green procurement.

##### The latest products reduce energy required in the display manufacturing process

JSR has developed products that enable low-temperature curing in the LC panel manufacturing process, lowering curing temperatures from between 200°C and 250°C to around 150°C. This yields a 25-30% reduction in power consumed during the curing process at customer plants. The Group is conducting further research with a vision that all JSR products will function at a curing temperature of 150°C and is marketing these applications.

##### Reducing end-product power consumption by increasing brightness

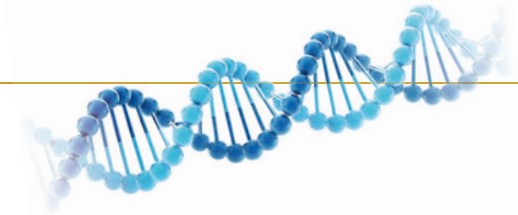
Newly developed alignment films boost display brightness requiring less backlighting and therefore lower power consumption. These alignment films, used in combination with insulating films in HD TVs, make it possible to cut power consumption by approximately 30%. This helps offset the increase in power consumption accompanying larger sized displays.

##### No.1 share worldwide for 4K/8K TV display materials

Sales of 4K/8K TVs, which are said to account for about 10% of the market currently, are expected to increase in the future. Alignment films manufactured by JSR are being used in 4K and 8K TVs on the market, enabling the Company to secure the top share of the global market.

**Business Strategy**

# Life Sciences Business



**Corporate Issues**

The realities of an aging society have given rise to increasing medical costs and issues for elderly care, and society as a whole faces challenges in extending healthy life expectancy so that people can live without the need for frequent medical or long-term care. JSR is working on the development of personalized medicine, primarily in biopharmaceuticals and cutting-edge diagnostics to support a healthy and long-lived society.



Officer in charge of Life Sciences Business  
**Tim Lowery**

Life Sciences Business Approach

Following the additions of KBI Biopharma, Inc. (KBI), MEDICAL & BIOLOGICAL LABORATORIES CO., LTD. (MBL), and Selexis SA to JSR's Life Sciences Business, Crown Bioscience International (Crown Bio), a provider of preclinical drug discovery and development services, was made a wholly-owned subsidiary in 2018. This gives JSR a framework for supporting the entire biopharmaceutical development process, from drug discovery to manufacturing. JSR is now able to provide drug manufacturers with efficient services that can shorten the time from drug discovery to manufacturing, thereby helping to bring advanced healthcare to the market sooner.

Initiatives

The Life Sciences Business, positioned as the Group's third core business, has steadily expanded revenue to around 50 billion yen. Future growth will be led by new contracts for the development and manufacture of biologics (CDMO) by KBI and Selexis and for preclinical research and discovery services (CRO) by Crown Bio. JSR will also focus on expanded global adoption of both our research and diagnostic reagents and bioprocess materials. Finally, we expect stable growth of the diagnostic reagent and specialized antibody development businesses at MBL. The JSR Group established JSR Life Sciences, LLC in the U.S. in January 2019 and transferred the global management functions of the Life Sciences Business to the new company. From the U.S., a global center of drug R&D, JSR Life Sciences will accelerate decision making and guide segment-wide strategies across the U.S., Europe and the Asia-Pacific regions, including oversight of Group life sciences companies.

Progress of Mid-Term Business Plan

**Operating Results for FY2019**

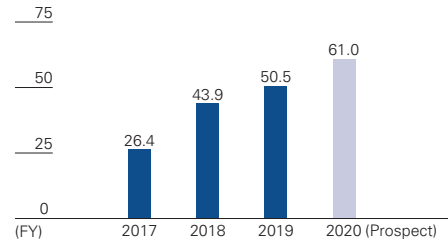
The Life Sciences Business segment saw stable revenue growth, specifically in the CDMO business, led by Group companies KBI and Selexis, and the CRO business led by Crown Bio. Sales of diagnostic reagent materials, bioprocess materials, and other products also climbed. MEDICAL & BIOLOGICAL LABORATORIES CO., LTD.'s diagnostic reagent business grew steadily, contributing to overall higher revenue from the previous fiscal year. The segment saw a substantial increase in operating profit thanks to expanded revenue as well as realized benefits from business restructuring undertaken in the previous fiscal year.

As a result, the Life Sciences Business segment posted an operating profit of 3,594 million yen (up 360.4% year-on-year) on revenue of 50,496 million yen (up 15.1% year-on-year).

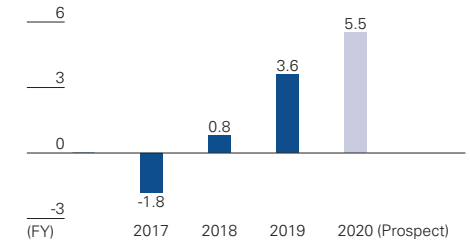
**Progress under the JSR20i9 Mid-Term Business Plan**

JSR acquired Selexis and Crown Bio in 2017 and 2018, respectively. These companies, together with KBI, have constructed a framework that provides end-to-end process support, from preclinical discovery and development to production, primarily of biopharmaceuticals. As a result of these moves, the Life Sciences Business has steadily expanded its business, surpassing 50 billion yen in revenue.

**Revenue**  
(Billions of yen)



**Operating Profit**  
(Billions of yen)



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## Business Strategy

### JSR Sustainability Challenge

A negative impact identified in the Life Sciences Business is that animal research is unavoidable in the development of pharmaceutical products. For this reason, JSR Group fully complies with international guidelines such as the 3Rs principles (replacement, reduction, and refinement) and conducts experiments appropriately to limit animal research to the fullest extent possible. The

Group is also working to develop artificial organs and organoids as alternatives to animal research. Moreover, the Group contributes to society through business efforts to enhance the efficiency of pharmaceutical development and realize personalized medicine tailored to each patient.

#### Negative impact



#### Animal testing and research

Given the current state of pharmaceutical development technology, animal research is unavoidable. It is crucial to adequately confirm the safety of a drug in animals before administering it to human beings. JSR Group performs animal testing and research services for drug evaluation on behalf of pharmaceutical companies. There are international guidelines, such as the 3Rs, which call for the ethical and humane treatment, and minimal use, of research animals. In addition, JSR Group supports its customers who are also required to comply with these frameworks.

#### Positive impact

##### Alternative animal-free testing

If technological advances enable the use of artificial organs as an alternative in toxicity tests, it will be possible not only to use fewer research animals, but also to conduct testing with something closer to human beings at the preclinical trial stage, thus increasing the chances of success. JSR Group is working to develop technologies that make organoids and other alternatives possible.

##### Contract Research (CRO) Business

JSR is working to boost the probability of success when shifting to human drug trials by conducting specialized animal testing and testing with animals that are as close as possible to human beings. Culturing the cancer cells of various patients in specialized mice and testing drug efficacy allows pharmaceutical manufacturers to develop drugs more efficiently, in a shorter time and at lower cost. Shortening the drug development period before release also means that current patients can benefit from effective drugs sooner.

##### Efforts to realize personalized medicine

JSR is aiming to realize personalized medicine offering healthcare in a more individually suited form. Biomanufacturing technology allows more tailored therapies to be efficiently produced and diagnostic technology that can ascertain in advance whether a drug is effective for an individual. JSR Group's strength is its ability to meet needs on both the biopharmaceutical development and the diagnostic sides, establishing technologies to stably produce biopharmaceuticals as well as technologies that support the diagnostic process, from the discovery of biomarkers to assess drug efficacy to the commercialization of diagnostic reagents.

**Business Strategy**

# Elastomers Business



**Corporate Issues**

Sustainable development within the industry, typified by the SDGs and a focus on reducing impact on the environment, will lead to further sophistication and diversification of customer and social needs. We see this trend as a major business opportunity for our elastomer materials. There are technological demands for low-wear and high-durability materials due to the widespread use of conventional fuel-efficient tires and electric vehicles (EV).



Senior Officer in charge of Elastomers Business  
**Kazushi Abe**

**Elastomers Business Approach**

Solution styrene-butadiene rubber (SSBR) is produced using JSR's proprietary molecular design and manufacturing technologies accumulated over many years. JSR will offer new SSBR products to address diversifying customer needs. The Group will leverage its supply network of bases in Japan, Thailand, and Hungary to achieve sales volume that outpaces growth in the SSBR market.

**Initiatives**

Production of automobiles and tires, the segment's main customer industries, has currently come to a standstill due to the impact of COVID-19, and JSR is embarking on business restructuring to address the segment's profitability issues. At the same time, SSBR demand is increasing for use in fuel-efficient tires as well as expanding to new applications, such as EVs and all-season tires. To address rising demand, JSR MOL Synthetic Rubber Ltd. (JMSR) in Hungary will start commercial production in FY2020, enabling the JSR Group to supply SSBR globally from three sites in Japan, Thailand, and Hungary and thereby expand sales. Additionally, the JSR Group will boost the ratio of high-added-value products in the Elastomers Business portfolio, such as binders for rechargeable lithium-ion batteries that are experiencing growing global demand, while pursuing restructuring to raise the segment's profitability and ensure business sustainability.

**Progress of Mid-Term Business Plan**

**Operating Results for FY2019**

Global production of tires remained weak throughout the year due to a downturn in automobile production, particularly in China, compounded by temporary production stoppages or reductions at tire plants in Europe and elsewhere.

Amid these circumstances, the sales volume of SSBR, positioned by JSR as a strategic product, improved over the previous fiscal year, despite a year-on-year decline in worldwide tire production volume. Nevertheless, the segment recorded lower revenue compared to the previous fiscal year, as the segment's overall sales volume was sluggish and sales prices slid because of a deterioration in raw-material market conditions. The segment posted an operating loss for the full term as a result of the revenue decline, narrower price spreads, and the impairment loss on some fixed assets made in the fourth quarter.

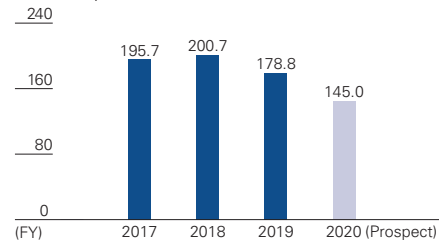
Consequently, the Elastomers Business segment posted an operating loss of 1,758 million yen, versus an operating profit of 7,421 million yen in the previous fiscal year, on revenue of 178,794 million yen (down 10.9% year-on-year).

**Progress under the JSR20i9 Mid-Term Business Plan**

Sales of solution styrene-butadiene rubber (SSBR) for high performance tires, for which global demand is climbing, remained firm. At JSR BST Elastomer Co., Ltd. (JBE), a joint venture in Thailand producing SSBR, first-phase and second-phase facilities achieved full output. JSR MOL Synthetic Rubber Ltd. (JMSR), a joint venture set up in Hungary, completed construction of a new plant that will start commercial production in FY2020 to address further demand increases.

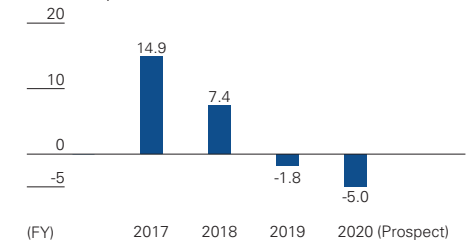
**Revenue**

(Billions of yen)



**Operating Profit**

(Billions of yen)



\* FY2020 forecasts are as of April 2020. Please refer to the JSR website ([https://www.jsr.co.jp/jsr\\_e/ir/library/presentation.html](https://www.jsr.co.jp/jsr_e/ir/library/presentation.html)) for the latest forecasts.

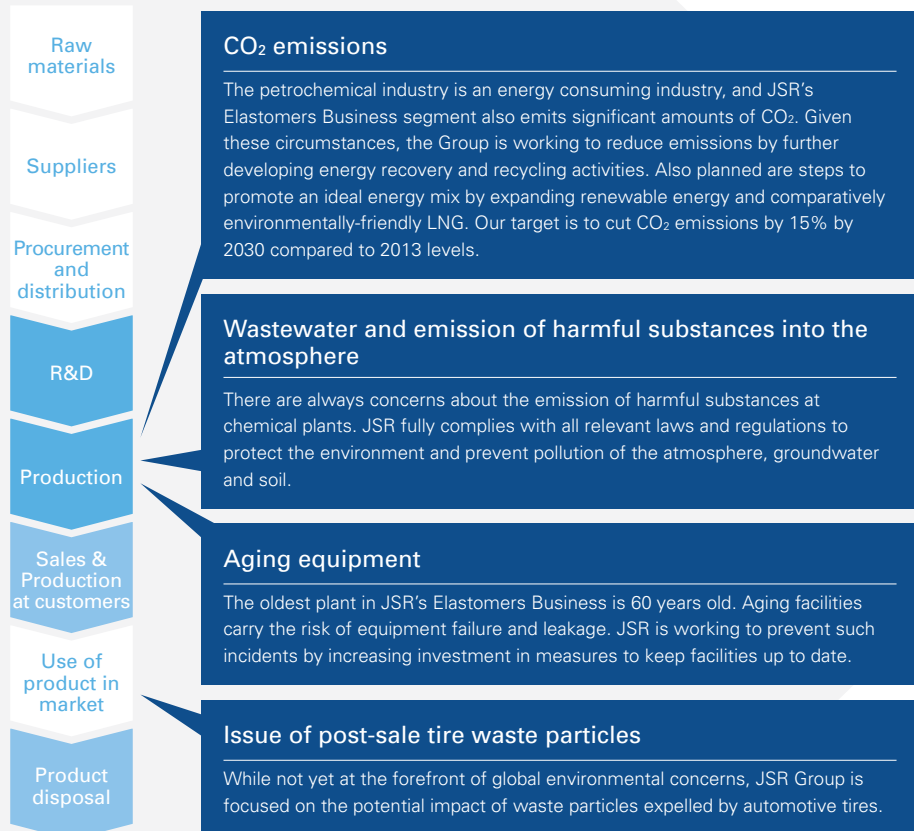
## Business Strategy

### JSR Sustainability Challenge

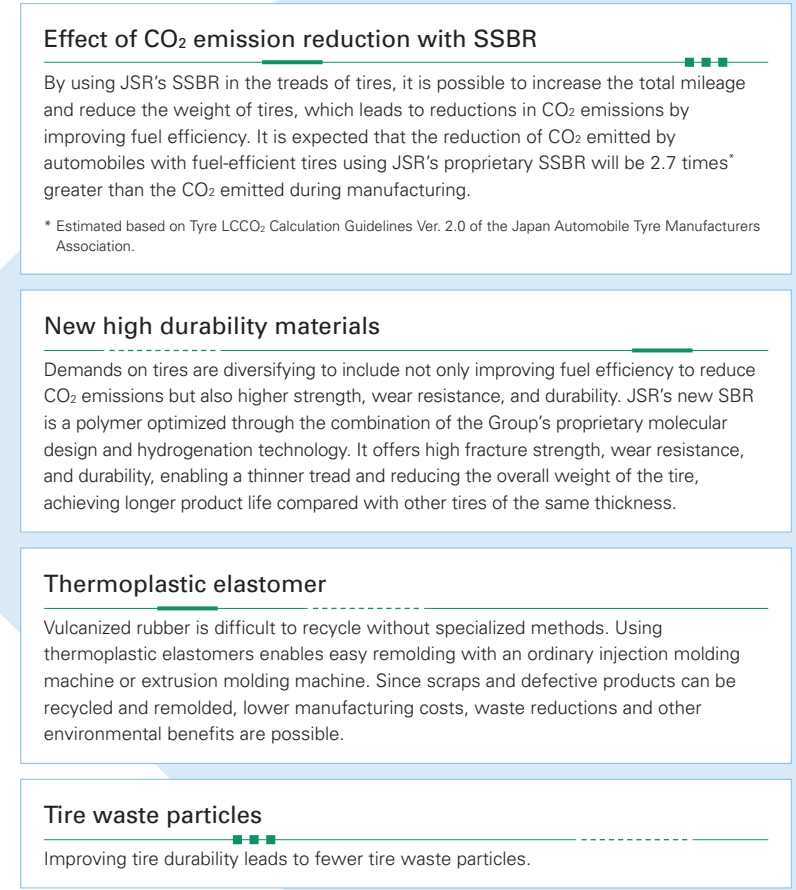
A negative impact identified in the Elastomers Business was the extremely high amount of CO<sub>2</sub> emitted during manufacturing. On the other hand, looking at the overall product cycle through use by the consumer, emissions are 2.3 times lower than at the time of manufacturing. Going forward, JSR will bolster positive elements in the segment by achieving longer product life cycles through the use

of new materials and taking steps to reduce CO<sub>2</sub> emissions during manufacturing. The Group is also addressing social calls for recycling by developing easily recyclable thermoplastic elastomers and tires that generate less waste particles.

### Negative impact



### Positive impact





Business Strategy

# Plastics Business



**Corporate Issues**

Customer needs are diversifying, such as the demand for low in-cabin noise in line with increasing use of EVs, as well as calls for monomaterialization and solvent-free production to reduce environmental impacts and costs. The mission of Techno-UMG Co., Ltd., the core company in the Plastics Business, is to continue offering products that solve diversifying customer needs, such as materials yielding low-squeak noise or unpainted components which reduce environmental impact.



Senior Officer in charge of Plastics Business  
**Kazumasa Yamawaki**

Progress of Mid-Term Business Plan

**Operating Results for FY2019**

In addition to sluggish performance, especially outside of Japan, in the automobile industry, the segment's sales volume was pushed down by the impact of COVID-19 in the 4th quarter and sales prices fell due to a deterioration in raw-material market conditions. These factors caused revenue to decrease from the previous fiscal year, and the decline in revenue together with decline in price spread led to a lower operating profit. As a result, the Plastics Business segment posted an operating profit of 6,237 million yen (down 32.3% year-on-year) on revenue of 95,092 million yen (down 9.8% year-on-year).

Plastics Business Approach

Techno-UMG Co., Ltd. was created on April 1, 2018 through the merger of two companies: Techno Polymer Co., Ltd. (a wholly owned subsidiary of JSR) and UMG ABS, Ltd. (equally owned by Mitsubishi Chemical Corporation and Ube Industries, Ltd.). In FY2018 we were able to increase production efficiencies while reducing our investment to increase capacity by moving production items between plants.

Utilizing the manufacturing, development and sales capabilities of both companies, we will strive to expand sales of specialty products such as those which target specific problems, especially in overseas markets, thereby achieving synergies through the merger.

JSR recently developed HUSHLLOY™, a product that suppresses the squeak noises that occur in plastic housings, contributing to in-cabin quietness in automobiles. The Group will take advantage of the compatibility of ABS materials with other materials to offer customers not only physical properties such as strength and heat resistance but other added functionality as well.

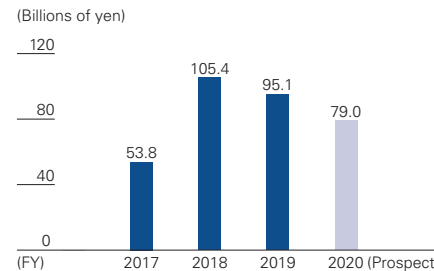
Initiatives

Techno-UMG Co., Ltd. will continue to take advantage of the accumulated production capacities, R&D capabilities, and marketing strength of the two former companies and realize synergy benefits through business and product consolidation. The company will endeavor to further enhance profitability by enlarging sales of specialty, high-performance products in overseas markets, such as HUSHLLOY™ anti-squeak material, PLATZON™ plating material, and VIVILLOY™ high color development compounds, with a particular focus on the automotive sector.

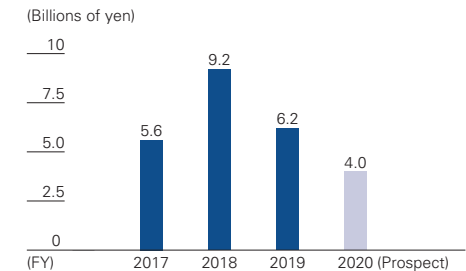
**Progress under the JSR20i9 Mid-Term Business Plan**

Having completed organizational integration, Techno Polymer's product portfolio was realigned to center on the competitive, high-performance products of both companies. Going forward, JSR will work to grow the business by further expanding its lineup of high-performance products and expanding sales, especially in overseas markets.

**Revenue**



**Operating Profit**



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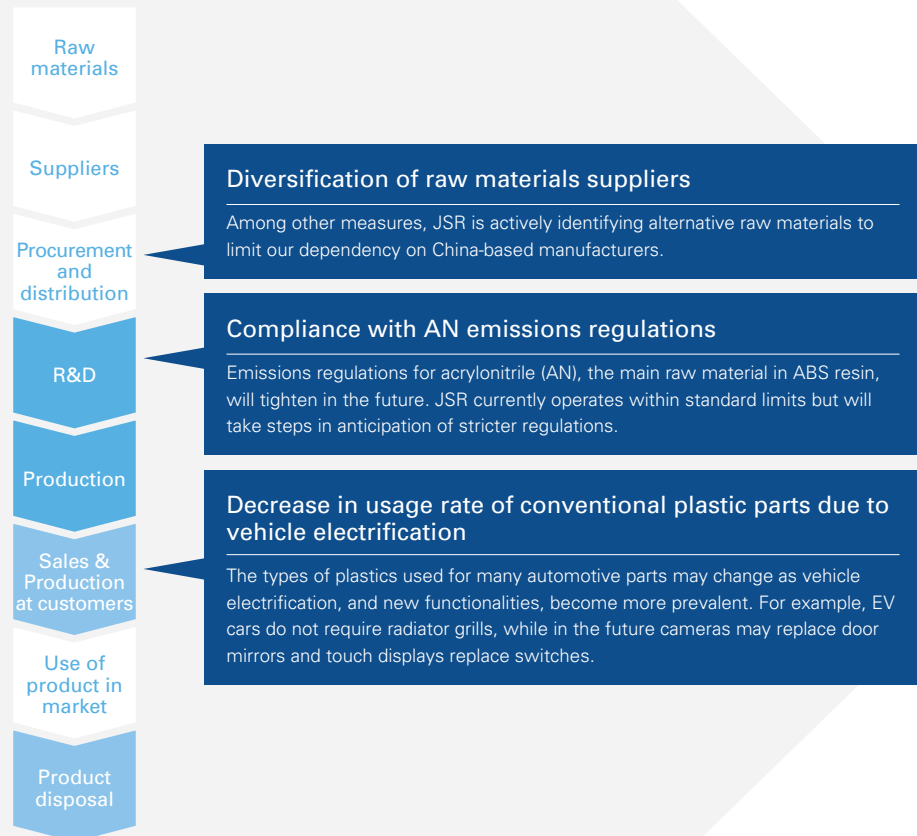
## Business Strategy

### JSR Sustainability Challenge

In the Plastics Business segment, acrylonitrile (AN) emissions were identified as a negative impact. JSR contributes to low in-cabin noise in automobiles by using materials to eliminate squeaks and reduce overall weight by replacing metal parts with plastic. The Group also helps to

reduce environmental impact through the incorporation of monomaterial parts, which ensures recyclability and requires fewer materials and solvents used in painting.

#### Negative impact



#### Positive impact

**Exhaust treatment facilities at Yokkaichi Plant**

In 2020, JSR Group will invest in treatment facilities to strengthen emissions control. The new facilities are expected to be more effective than existing facilities in reducing CO<sub>2</sub> emissions.

**Monomaterialization**

The use of unpainted plastics makes recycling possible. Using such materials to eliminate squeaks in automobiles not only ensures low in-cabin noise but also makes it possible to reduce the overall amount of materials. Environmental impact is also lessened in terms of reducing solvents for painting.

**Further weight reduction of automobiles with ABS resin**

JSR can offer a 50% weight reduction by replacing metal components with high-hardness ABS resin, which has a lower specific gravity than metal. Subsequently, reduced vehicle weight will lead to an overall reduction in CO<sub>2</sub> emissions.

**Diversifying plastics development for other in-vehicle product applications**

Increased use of plastics in electronic component frames for safety equipment, such as radar, cameras and monitoring systems, is expected, and JSR is actively researching and developing plastics and alternative materials to address future industry requirements in a sustainable way.