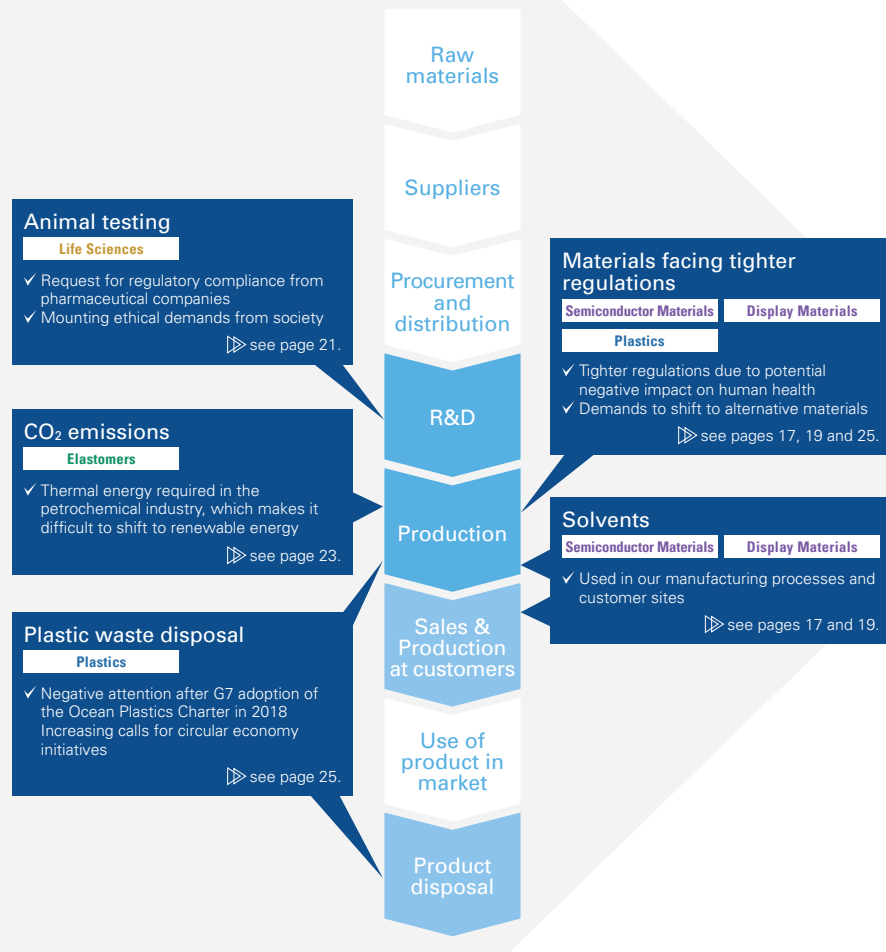


JSR Sustainability Challenge

JSR Group impacts society in various ways, from the sourcing of raw materials to manufacturing by customer companies, uses in the market, and product disposal. Under the current Sustainability Challenge, the Group closely reviewed each stage of operations from upstream R&D to downstream product disposal, looking at impacts in terms of climate change, resource recycling, digital transformation, and health. The positive and negative impacts of business activities identified in the

review are summarized in the figure below. With a view to integrating these results into the Group's future development, JSR is formulating a long-term vision for 2050. By focusing on contributing to the three areas of quality of life and well-being, a healthy and long-living society, and global environmental conservation, the Group will pursue sustainable future growth and fulfill its responsibilities to stakeholders.

Negative impacts



Positive impacts

Digital Solutions ▶ see pages 17 and 19.

Semiconductor Materials
Reduce semiconductor power consumption while improving nanotechnology to contribute to a smart society including IoT, AI and 5G JSR's cutting-edge semiconductor materials can achieve miniaturization and high performance with less power. Adopting a higher performance GPU is expected to reduce power consumption by 280 times.

Display Materials
Possible to reduce LCD TV power consumption 30% by boosting display brightness and low-temperature curing
As the No. 1 global supplier of alignment films for high-performance displays, JSR is poised to reduce power consumption for displays around the world.

Life Sciences ▶ see page 21.

Improve drug development success rates and shorten development timeline for customers
Through our contract development and manufacturing organizations (CDMO), timeline from drug discovery through mass production to approval of human clinical trials can be shortened from 12-24 months to 9 months.

Elastomers ▶ see page 23.

JSR Group products help offset greenhouse gases emitted by manufacturing processes by more than double through products that reduce greenhouse gas emissions within society
With JSR's unique SSBR for fuel-efficient tires, reduction in CO₂ emissions from automobiles is expected to be 2.7 times greater than CO₂ produced during the manufacturing process.

Plastics ▶ see page 25.

Promoting mono-materialization aimed at reuse of plastic resources
Contributing to customers by incorporating new materials to convert composite materials to mono-materials.
Easy recyclability and reduction of environmental burden by eliminating coatings for brightly colored materials, reducing the need for solvents.
JSR is proposing a 50% weight reduction while maintaining rigidity.

Social value created by JSR through positive impacts

Contribution to quality of life and happiness

- ◆ Realization of a smart society (AI, IoT)
- ◆ Realization of high-speed communications
- ◆ Spread of 4K/8K TV
- ◆ Realization of comfortable mobility

Contribution to a healthy and long-living society

- ◆ Shortening the drug discovery and development timeline
- ◆ From treatment to prevention
- ◆ Supporting the future of personalized medicine

Contribution to preservation of the global environment

- ◆ Efficient use of energy
- ◆ Bringing about a recycling-oriented society