

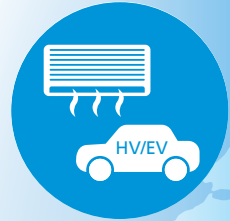
Polyvinyl chloride resins (PVC)

In comparison to aluminum window frames, PVC window frames can reduce the amount of heat loss from windows by 71 %*



Rare earth magnets

Efficiency enhancement of electric motors and power generators
Essential for enhancing the performance of next-generation automobiles*



Energy savings

Silicones

By utilizing silicone products in Europe, North America and Japan, it is possible to reduce greenhouse gas emissions by 54 million tons of CO₂e per year*



Silicones

By utilizing silicone for sealing solar batteries, the batteries can be used for 30 years or more



Renewable energy

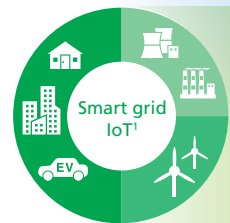
Polyvinyl chloride resins (PVC)

Water supply and sewerage pipes do not need replacing for 50 years or more



Long-life infrastructures

Semiconductor silicon



Basic infrastructures to support an advanced information society

Addressing climate change and its impacts

Building infrastructures and fostering innovations

Conservation of ecosystems and biodiversity loss prevention

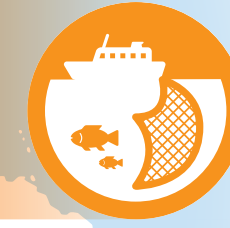
Ensuring healthy lives and promoting well-being

Prevention of marine pollution



Cellulose derivatives for industrial use

To minimize the separation of concrete in water, it is possible to pour concrete without contaminating the water



Silicones

Very safe silicones are used for coating ship bottom and fishing nets to prevent marine organisms attaching to them

Reducing agricultural usage



Synthetic pheromones

By disrupting the communication between male and female agricultural pests, it is possible to obstruct their mating behavior and selectively eliminate the agricultural pests only

Preventing disruption of ecosystems

Maximizing the performance of pharmaceutical products



Pharmaceutical-use cellulose derivatives

Modulating position control, dosage, and time that pills dissolve inside the body
Removing the bitter taste and odor of pills

Responding to an aging society



Rare earth magnets Silicones

Semiconductor silicon
Used in joint motors, cushion materials, and electronic device control in nursing care robots

1 IoT

Abbreviation for 'Internet of Things.' Everything is interconnected through networks

* Please refer to pages 7 to 8 in the *Environmental and Social Report 2014* for more information.

http://www.shinetsu.co.jp/en/company/csr_bn.html