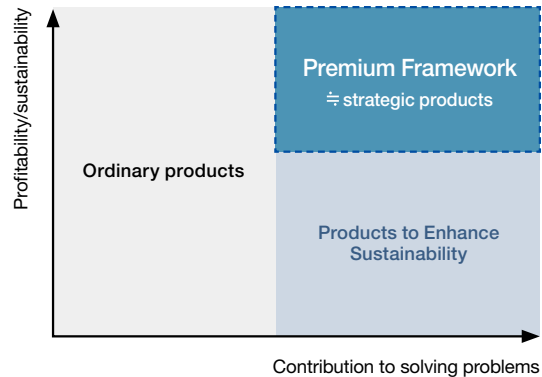


Products to Enhance Sustainability

SEKISUI CHEMICAL Group aims to grow as a company by making a greater contribution to solving social issues, particularly SDGs, through its core products and by working to create and expand Products to Enhance Sustainability in order to increase the sustainability of the Earth, society, the Group, its products, and the customers who use them.

Products to Enhance Sustainability Concept

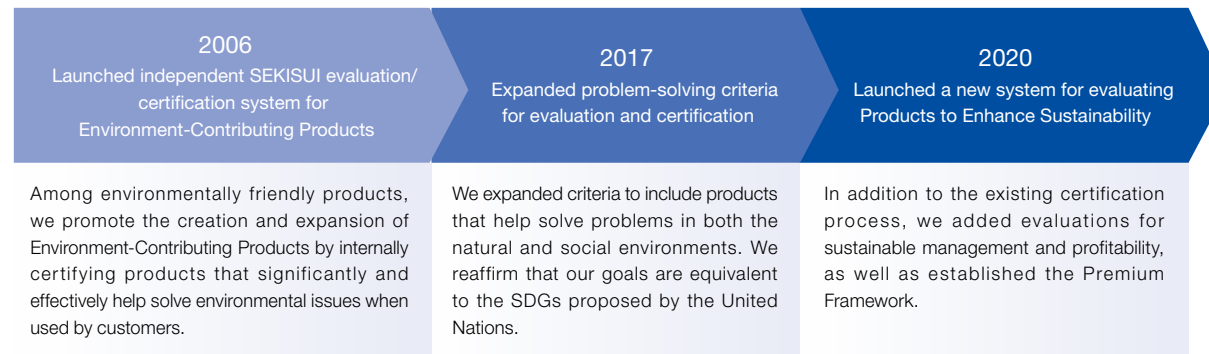


Typical Premium Framework products

ZEH-specification housing (Housing), FFU (UIEP)
HUD+ insulation interlayer films (HPP), blood coagulation/
POCT/pharmaceutical ingredients (Medical)

In fiscal 2020, we evolved the existing Environment-Contributing Products system into the Products to Enhance Sustainability system, since which we have verified and assessed sustainability across the supply chain from the perspectives of profitability, process evaluation, and internal control. In addition, we established a new Premium Framework to strategically expand products that balance greater profitability with contributions to solving issues.

Evolution of System for Evaluating Products to Enhance Sustainability



Conduct Product Environmental Impact Assessments

SEKISUI CHEMICAL Group conducts environmental impact assessments during product planning, development, and all life-cycle stages. Based on this, the Group determines the degree of contribution to solving social issues based on internal standards when certifying Products to Enhance Sustainability after release.

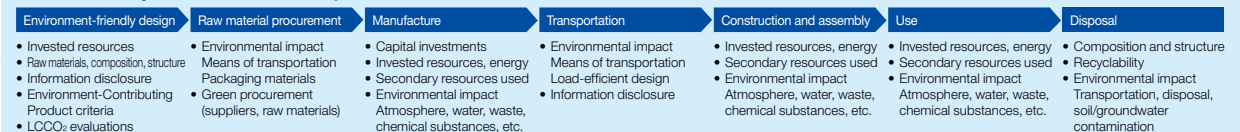
Compliance Evaluation

- Laws and regulations
- Self-regulation
- Requirements of industries, etc.

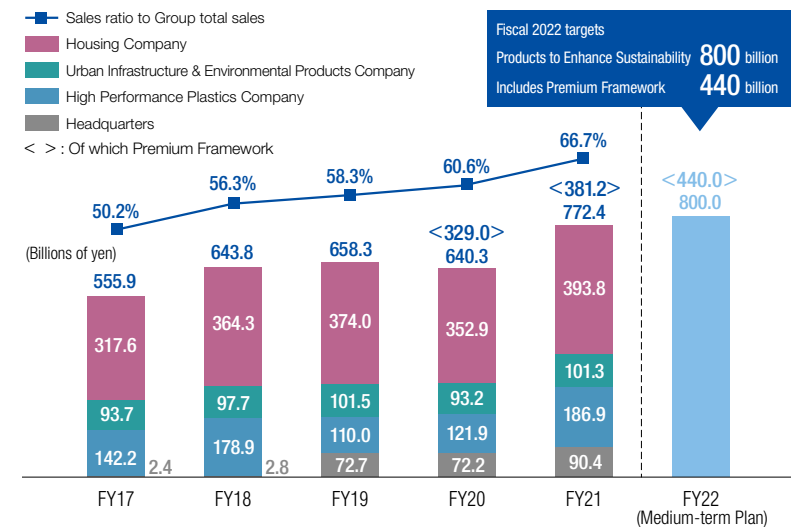
Chemical Substance Assessment

- Laws and regulations
- Prohibited substances
- Restricted substances

Product Life-cycle Environmental Impact Assessment



Products to Enhance Sustainability Net Sales/Sales Ratio



Evaluations to Verify Sustainability

Internal Control

Is there a business plan or framework in place for handling accidents or disasters with serious business impacts that also considers issues such as safety, the environment, quality, compliance, and human rights?

Customer Satisfaction

In what ways do quality or service appeal to the customers who use Company products, how satisfied are they, and what kind of requests do they have?

Supply Chain Management

Are there structures or frameworks in place to prevent accidents or disasters that have serious business impacts on both this Company and the product-related supply chain?

Profitability

How much room is there to grow and what potential does the business have?

Reference Products to Enhance Sustainability Certification

Products to Enhance Sustainability Definition



Social Environment Products to Enhance Sustainability Certification Criteria

Steps taken to consider scoring factors that contribute to the prominence of each item with certification based on the level of contribution.

Category	Response Method (Example)
Longer healthy life spans	Prevent the spread of disease (illness detection/prevention)
	Support the independence of the elderly and those in need of care
	Support the independence of people with disabilities
	Minimize burdens on caregivers
	Improve comfort/hygiene
	Raise awareness of healthy habits
	Mitigate natural disaster risks
Resilience of social infrastructure	Improve working conditions, including in supply chains
	Develop and provide infrastructure
	Enhance responses to disasters and emergencies
	Enhance resilience to disasters and emergencies
Strengthening the safety and disaster-preparedness of communities	Support low-income countries
	Promote sustainable cities and residences
	Improve sustainability of residences and livelihoods
	Improve livelihood safety
	Make residences and livelihoods more comfortable
	Invigorate local communities

Products to Enhance Sustainability are products that make a significant contribution to solving social issues in the natural and social environments and are certified based on internal criteria. We accept the opinions and advice of outside advisors with various backgrounds in industry, government, and academia regarding these criteria, approaches, and the validity of results to ensure high standards and transparency.

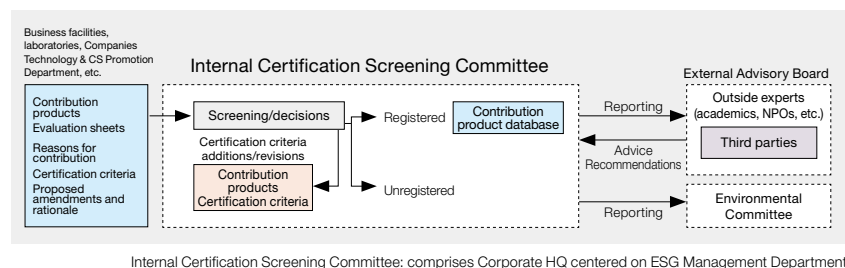
We received advice on the significance of contributions made to the natural and social environments by newly registered products and how best to convey that significance. Advice was also received on the evolution and direction of the product system based on various inputs including confirmation of the need for consideration of multiple issues, which is also required by the EU Taxonomy.

Natural Environment Products to Enhance Sustainability Certification Criteria

Certification decisions are made based on certification criteria established for each issue category and response method that contributes to solutions.

Category	Response Method (Example)
Reduce GHG emissions	Increase energy conservation performance
	Use unutilized energy
	Find alternatives to freon gas
	Reduce use in product life cycles
	Use of non-fossil resource-derived plastics
	Develop energy creation/storage functions
	Implement energy management in urban spaces
Reduce waste	Reduce customer production processes
	Increase durability (extend service life, etc.)
	Adopt low volume waste methods
Reduce raw materials use	Reduce scrap, defects, and unnecessary materials
	Conserve raw materials
	Use recycled resources (waste from other products)
Conserve water/aquatic environments	Horizontal recycling of materials collected internally
	Reduce clean water usage volume
	Reduce water usage volume
Prevent pollution	Reduce water leakage
	Circulate water through rainwater filtration
	Prevent pollution via purification
Preserve biodiversity	Shift to low VOC
	Use certified forest timber
	Use thinned timber
	Use biodegradable materials
	Prevent topsoil erosion
	Prevent desertification
	Conserve wetlands
Prevent/mitigate disasters	Promote tree planting
	Prevent marine/river pollution
	Conserve species/genes
Intermediate materials, raw materials	Use disaster-resistant materials
	Help lower environmental burdens via raw materials, components, materials

Products to Enhance Sustainability System Operation/Certification Method



Internal Certification Screening Committee: comprises Corporate HQ centered on ESG Management Department

Outside Expert Members * Honorifics omitted

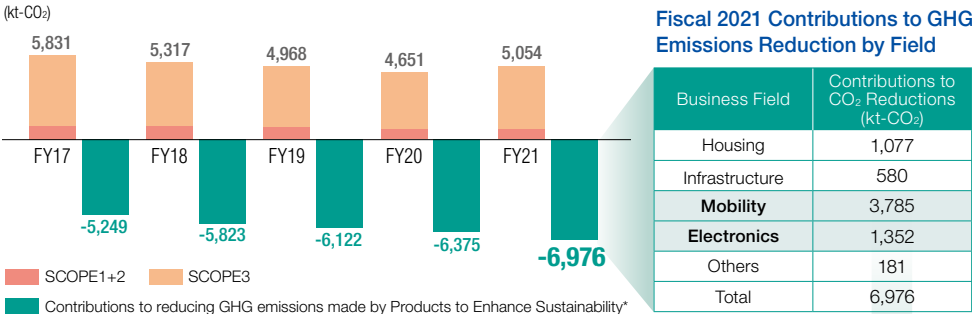
Name	Affiliated Institution and Position	Specialist Areas	Anticipated Role(s)
Masatsugu Taniguchi	Representative of the Resource and Environment Strategic Planning Office	<ul style="list-style-type: none">Experience as a company managerWell versed in resource-centered environmental strategies, a leading figure who advocated natural capital management from an early stage	The giving of opinions/advice on management including natural capital and the product portfolio
Juichi Shibusawa	President of the specified nonprofit corporation Network for Coexistence with Nature	<ul style="list-style-type: none">Experience in business as a Doctor of AgricultureAs president of an NPO, implements activities for forest, community, and human resource development with environmental NPOs in Japan and other countries	The giving of opinions/advice on business related to the solving of social issues based on the spirit of three-way benefits (the buyer, seller, and society as a whole) The giving of opinions from a nature-positive perspective
Takehisa Kabeya	Senior Managing Director Sustainable Management Promotion Organization (SuMPO)	<ul style="list-style-type: none">Experience as a government official at Japan's Ministry of Economy, Trade and IndustryPromotes social change activities through environmental values, such as LCAs and support for regional revitalization	The giving of opinions from a life cycle perspective, the giving of opinions/advice based on regulations regarding environmental value and global trends

Name	Affiliated Institution and Position	Specialist Areas	Anticipated Role(s)
Minako Oishi	Representative Director, Deputy Chairperson Nippon Association of Consumer Specialists (public corporation)	<ul style="list-style-type: none">Knowledge and experience concerning consumers and their demandsPromotes activities that connect consumers, businesses, and government	From the standpoint of using products, the giving of opinions/advice based on requests, expectations, and matters of concern
Shoichi Saito	Executive Director, ESG Management Forum Nikkei Business Publications, Inc.	<ul style="list-style-type: none">Media experienceAscertains and disseminates global trends in all areas of sustainability	From a comprehensive perspective, the giving of opinions on future trends with regard to risks and opportunities in ESG management
Mari Yoshitaka	Principal Sustainability Strategist, Research and Development Division, Mitsubishi UFJ Research and Consulting Co., Ltd. Representative Director, Virtue Design	<ul style="list-style-type: none">Experience with regard to ESG investment in financial institutionsLeading figure in SDGs, green business, and climate change finance	Seen from a financial standpoint, the giving of opinions/advice on risks and opportunities in terms of corporate value and ESG management/green business

Products to Enhance Sustainability



GHG Emissions from Corporate Activities and Contributions to Reducing GHG Emissions Made by Products to Enhance Sustainability



* Contributions to reducing GHG emissions made by Products to Enhance Sustainability are calculated using general-purpose products as a comparison, where the calculation indicates the contribution to reduction as the difference from comparison products given by MILCA (Japan Environmental Management Association for Industry), a calculation system based on the concept of LIME2. For details on the calculation methods used for Scopes 1, 2, and 3, see the [Sustainability Report](#).


Mobility Field, Electronics Field

In these fields, we contribute to reducing GHG emissions at the production and usage stages of our customers' products. We are further expanding the degree to which we contribute by working to convert the electricity consumed at our production plants to renewable energy and by switching to alternative resources for our raw materials.

Mobility Field

Reduce fuel consumption and CO₂ by decreasing vehicle weights and through heat insulation


- Sound and heat insulation interlayer films
- Alveosoft vehicle floor material, etc.



Electronics Field

Contribute to the performance of energy-efficient products and reduce CO₂

- Micropearl
- Conductive fine particles
- White solder resist
- UV sealants
- Heat-release materials




Contributions to GHG Emissions Reduction in the Mobility and Electronics Fields Are Increasing Yearly

(kt-CO₂)

Field	FY19	FY20	FY21
Mobility	2,728	2,625	3,785
Electronics	671	963	1,352
Total	3,399	3,588	5,137

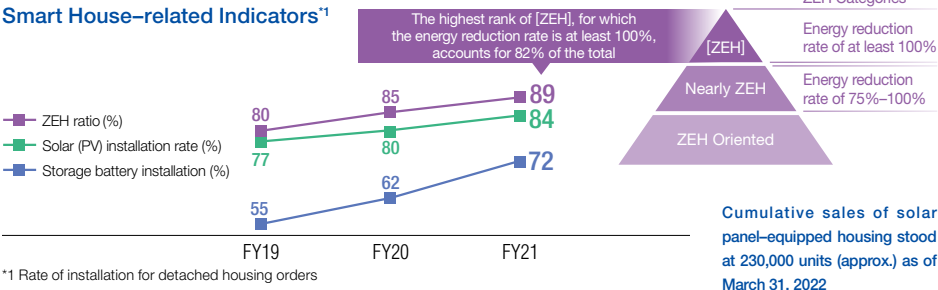
Improve product durability and reduce CO₂ over the life cycle

- Foam tape
- Double-faced adhesive tape for fixing of LCD components



Housing

As one of the first companies to tackle environmental issues, we began selling houses equipped with solar panels in 1997. In 2012, we began contributing to energy creation, conservation, and storage through solar panels, HEMS (Home energy management system), and storage battery-equipped housing. By utilizing high-capacity storage batteries and large-capacity solar panels, we propose advanced lifestyles that eliminate electricity purchases wherever possible.



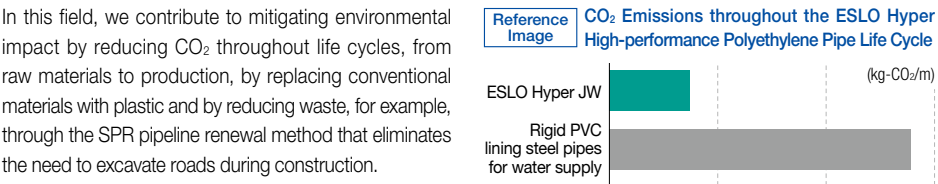
Reference: Company data*	2019	2020	2021
Installed solar panel area	374,000 m ²	360,000 m ²	400,000 m ²
Total installed solar panel capacity ²	50 MW	50 MW	60 MW

*2 Cumulative installed solar panel capacity now exceeds 1,250 MW. As a result, total annual electricity generation is equivalent to the electricity consumed by a city with a population of 500,000 people.

We also promote the effective use of renewable energy through the SMART HEIM DENKI Power Trading Service business and manage the BeHeim brand, through which we purchase and resell homes in a way that circulates upcycled housing, in order to contribute to building a sustainable, recycling-oriented society.



Infrastructure



Notes: 1 Figures for metal pipes are inferred from publicly available information. These figures are for reference purposes only, and are not collected as data from the production process.
2 CO₂ emissions by material and product are calculated using impact assessment coefficients (GHG emissions per unit production) cited from IDEAv2 of the National Institute of Advanced Industrial Science and Technology and the Sustainable Management Promotion Organization

Products to Enhance Sustainability

Promoting Resilient Infrastructure, Cities as well as Living and Communications Environments

Spreading and Promoting Resilient Social Infrastructure and Safe, Secure Lifelines

We provide products and construction methods that contribute to solutions for social issues, including aging structures, disaster prevention and mitigation, and labor shortage countermeasures, as part of water supply and sewage lines, agriculture, electric power, and other aspects of social infrastructure. We also provide lightweight, highly durable, high-strength materials in the aircraft, railway, and other transportation infrastructure fields in order to contribute to building safe, secure lifelines.



Polyethylene pipes for earthquake resistant water supply



SPR Method contributes to aging infrastructure, including sewage pipes



Reinforced plastic composite pipes are also used as rainwater storage pipes



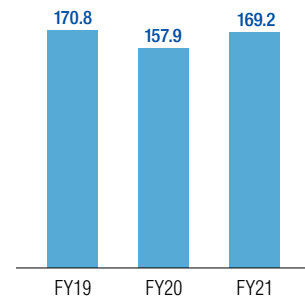
Rainwater storage systems contribute to torrential rain countermeasures



Synthetic sleepers for railroads have exceptional water resistance and durability

Water-related Business Net Sales Trends

(Billions of yen)



High flowrate drainage systems contribute to torrential rain countermeasures, etc.



Fire-resistant VP Rigid PVC pipes for buildings



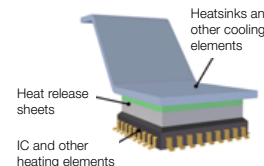
Drinking water storage system



Non-combustible certified material, thermal insulating urethane foam material for onsite use

Resilient Communications Infrastructure

Products that contribute to improving the durability and performance of related parts, which are becoming increasingly important with the development of 5G connectivity, also contribute to more sophisticated ICT.



MANION high thermal conductivity heat release sheet
Contributes to exercising the performance of high-speed communications and high-density semiconductors



Selfa semiconductor processing material
Contributes to realizing high-density, ultra-thin wafers

Providing Smart, Resilient Living Environments, and Town and Community Development



SEKISUI HEIM are made from high-durability structures that are resistant to natural disasters as the result of a highly industrialized unit construction method



New e-PocketGREEN high-capacity storage battery
A high-capacity, compact storage battery that can be installed indoors

In addition to communities where all residences are equipped with storage batteries and built to zero energy house (ZEH) specifications, we are deploying smart, resilient town and community development throughout Japan by bringing to bear the infrastructure materials of the Group that stand strong against disasters, including rainwater storage systems that provide countermeasures to torrential downpours and drinking water systems capable of securing days of potable water, even when water services are suspended.

SEKISUI CHEMICAL Group
Infrastructure Technologies



Support for Health and Longevity

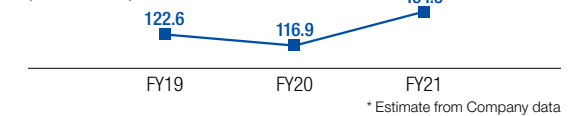
Contributing to the Early Detection of Diseases

We support healthy lifestyles by detecting illness and infectious diseases early on through our product lineups of clinical reagents for diabetes and infectious diseases, analysis equipment, and plastic blood collection tubes.



Reference Image

Number of tests made using SEKISUI CHEMICAL Group diagnostic reagents in the clinical chemistry (HDL, LDL), diabetes, and POCT fields* (Millions of times)



Lightens the Burden on Those Receiving and Providing Elderly Care



Large-scale prefabricated bath for independence support and nursing care



Nursing care motion sensor for patients

Proposing Lifestyles with Little Temperature Difference Risk



Comfortable air ventilation and air-conditioning systems

Addressing the New Normal



Virus removal spray with a virus removal effect that lasts approximately one month