## CORPORATE PROFILE 2023



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https://www.sekisuichemical.com/

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# Innovation for the Earth

In order to establish a sustainable society, SEKISUI CHEMICAL Group creates innovations in four main domains and generates "peace of mind for the future" to support LIFE on earth.

#### Residential

Providing more people with peace of mind, safety and comfort through high performance housing, housing-related services and Town and Community Development.

and finite .....

#### Advanced Lifeline

Solving infrastructural issues and improving social infrastructure on a global scale with advanced materials and methods. Innovative Mobili

Providing high-value added materials for equipment which contributes to both society and lifestyles.



#### Life Science

SEKISUI

Support global health and longevity with products, systems and services which contribute to healthcare advancements.

TTTTTT

#### Plastic waste containers improve the environment of Japan's towns and cities.

In 1961, SEKISUI CHEMICAL developed and proposed the Poly-Pail, covered garbage bins made of polyethylene, for the Tokyo Metropolitan Government, which was concerned about degradation of the urban environment from waste. The mechanism whereby collection trucks gather the waste in the Poly-Pails spread throughout the city and nationwide, contributing to enhancement of urban scenery and sanitation.



## The origin of **SEKISUI CHEMICAL is** solving social issues.

Since its foundation, SEKISUI CHEMICAL Group has contributed to solving social issues in various areas based on the 3S Principle: Service, Speed, Superiority. We will maintain this spirit as we pursue further growth of society and the company.

#### Creating a sustainable society by providing strong housing.

21215

**SEKISUI DNA** 

We have supplied more than 60,000 energy self-sufficient homes\* equipped with high-capacity solar power systems and storage batteries (as of March 31, 2023)

In addition to consideration for the environment, the provisions of homes that are highly resilient in the event of a disaster or power outrage contribute to the development of a sustainable society.

\* Not all electrical needs are met. Electricity must still be purchased from electric companies

## A Better Future for Society through ESG Management.

SEKISUI CHEMICAL Group seeks to enhance social sustainability while achieving profitable growth as a business along the strategy axis of "business growth, reform and creation centered on ESG management." This is summarized in the ESG Management Diagram, which shows the Group's approach to ESG Management.

#### ESG Management Diagram



SEKISUI CHEMICAL Selected as One of the 100 Most Sustainable Corporations in the World for the Eighth Time.

Canada-based Corporate Knights Inc. assesses the sustainability of large companies around the world in all industries from the perspectives of the environment, society, governance (ESG), and others and selects the "Global 100" top companies. SEKISUI CHEMICAL has been selected sixth consecutive times and was ranked 84th in 2023.



03

The diagram on the left shows the following approach.

- ·Aim to realize a sustainable society while achieving sustainable growth for the SEKISUI CHEMICAL Group
- ·Toward our vision, accelerate the three approaches for solving social issues with the three prominences as driving forces and provide the value of "peace of mind that continues into the future" in the four business domains
- Implement these together with stakeholders

### Contributing to the SDGs through Business.

In order to improve the lives of the world and the Earth's environment, one of the targets in the Group Vision, SEKISUI CHEMICAL Group seeks to resolve social issues through prominent technologies and quality and is working to contribute to the SDGs intended to create a sustainable society.

### SUSTAINABLE GALS



#### SEKISUI DNA

1947

## **Continuous History of** Supporting the Basis of LIFE

As a manufacturer, we actively pursue technological innovation and create products and services that provide important support for fundamental LIFE of individuals and society.

plants. We have also developed and

and secure lives in unseen areas.

provided renewal and upgrade materials and

pipelines, which has become a serious issue

techniques for aging infrastructure such as

for society in recent years, supporting safe

1950

#### Innovation Story

1961

**Polyolefin Foam Contributes** to More Comfortable Lifestyles

SEKISUI CHEMICAL developed an innovative cross-linking polyolefin foam with exceptional heat insulating, cushioning, and other functions. When first commercialized, the primary application was for heat insulation in bathrooms. Since then, polyolefin foam has come to be used as an interior finish material to enhance comfort in cars, a water and dust insulator and cushioning material that improves the convenience of smartphones, and in many other applications.



foam business

1971 Launched SEKISUI HEIM M1, a prefabricated modular house



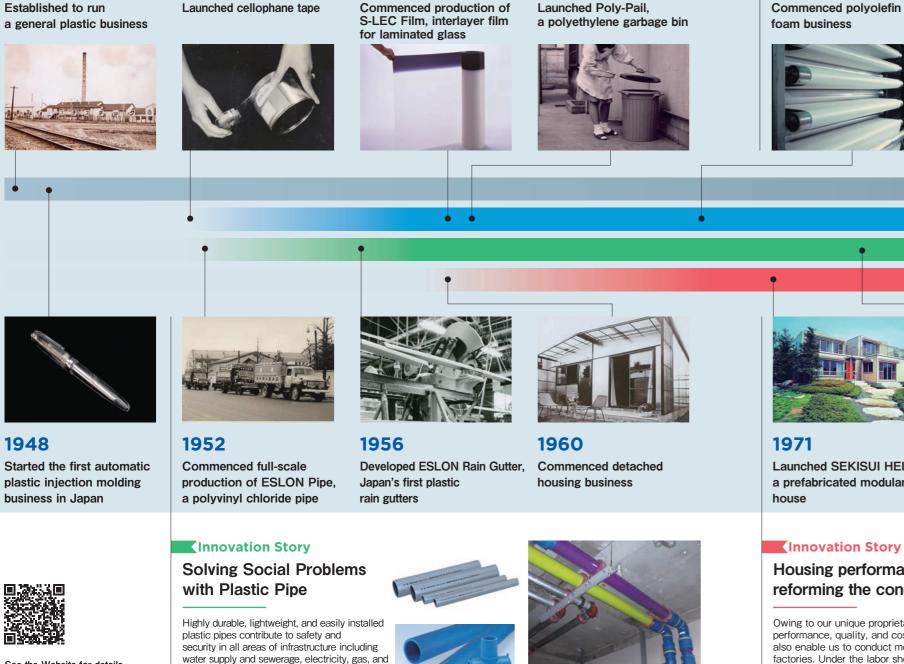
1974

Commenced full-scale production of synthetic lumber FFU

#### Innovation Story

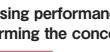
#### Housing performance improved dramatically by reforming the concept of housing

Owing to our unique proprietary construction technologies we achieve high performance, quality, and cost-effective home building. These technologies also enable us to conduct most of all home construction processes at our factories. Under the labor shortages during the period of rapid growth in Japan, this contributed to the supply of high-quality, low-cost housing. We have sold over 650,000 houses to date, of which approximately 240,000 are equipped with solar power systems (as of March 31, 2023). We continue to evolve by providing housing with enhanced resilience functions including storage batteries and drinking water storage systems.



1960

See the Website for details **SEKISUI History** 





#### Innovation Story

#### Safe and Speedy Medical Testing

We were the first in the world to put plastic vacuum blood collection tubes into practical use, contributing to the prevention of breakage accidents during testing, reducing testing times, and improving accuracy. In addition, automated test reagent registration and non-stop testing contribute to raising the speed of healthcare.



SEKISUI

2001 mplemented

Divisional Company

Organization

System

#### 1985

Launched Insepack, the world's first plastic vacuum blood collection tube



2006

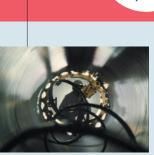
Entered the medical field on a full scale



Corporate

Housing

Urban Infrastructure & tal Products Company



1986 Developed the SPR method for pipeline renewal



Enviror

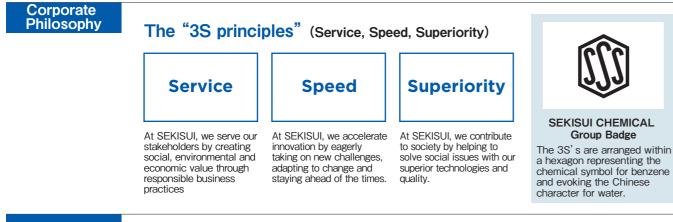
2013 Launched Smart Power Station series



#### **Company Overview**

## **SEKISUI CHEMICAL** Group's Principle

Our Group Principle comprises the Corporate Philosophy, Group Vision, and Management Strategy. We also established a long-term vision, "Vision 2030", as a bridge to link the Corporate Philosophy and Group Vision with the Management Strategy.



#### **Group Vision**

Through prominence in technology and quality, SEKISUI CHEMICAL Group will contribute to improving the lives of the people of the world and the Earth's environment, by continuing to open up new frontiers in residential and social infrastructure creation and chemical solutions.

**Group Principle** 

Corporate Philosophy

The "3S principles

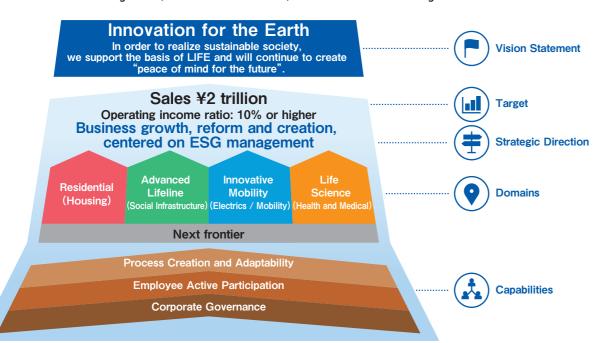
**Group Vision** 

Vision 2030

Management Strategy Medium-term Management Plan etc.

Vision 2030

Aiming to double our business capacity (sales of JPY 2 trillion, operating income ratio of 10% or more) by 2030 by expanding contributions to resolving social issues through "business growth, reform and creation, centered on ESG management".



### Management Strategy

#### Medium-term Management Plan Drive 2.0

#### Policy

The aim of the plan is to realize the Group's long-term vision "Vision 2030" through "Sustainable Growth" and "Accelerate Strategic Innovation"

#### Basic Strategy

Three initiatives for enhancing corporate value

- Strategic Innovation Accelerate growth —

#### Group Slogan

#### A new frontier, a new lifestyle.

The Group Slogan expresses our commitment to adhering to the stance and mindset contained in the Corporate Philosophy and Group Vision. In accordance with this slogan, we seek to create a new world through the characteristic principles of

SEKISUI CHEMICAL Group (Service, Speed, Superiority) and maintain a strong corporate presence for 100 years and beyond.

## **Organizational Structure**

SEKISUI CHEMICAL is made up of three Companies and the Headquarters. SEKISUI CHEMICAL Group comprises SEKISUI CHEMICAL and its affiliated companies (including 94 domestic subsidiaries and 71 overseas subsidiaries\*). \*As of March 31, 2023

### SEKISUI CHEMICAL CO., LTD. -



Companies accounted for by equity method: 7 Affiliate companies: 8



#### **High Performance Plastics Company** 01

Electronics | Mobility | Industrial

The High Performance Plastics Company contributes to solving social issues and globally supplies advanced, high-performance materials that advance customer products and services.

#### Electronics

We supply products such as fine particles, sealants and adhesives, and tapes and films that have functions including conductivity and insulation, thermal management, gap formation, and cushioning and protection for use in various types of displays, electrical devices, communications equipment, circuit boards, and semiconductors.







Heat resistant, protective, and high-adhesion easy-release tape and wearable electric devices for semiconductor processing

Ultra-thin foam for smartphones

#### Industrial

expanding materials and products that contribute to saving labor by reducing workloads and protecting the environment.







FRONT RIGHT

REAR RIGHT

elt adhes

FRONT



#### Minase Innovation Center (MIC)

In August 2020, the MIC was opened in the Research & Development Institute of the High Performance Plastics Company to serve as a base for creating hints to solve social issues through communication with customers and presenting core technologies (TPF\*) and products from SEKISUI CHEMICAL. Technology Platform



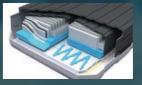
See the Website for details



#### Mobility

In addition to products such as interlayer film for laminated glass, foams for automobile interior parts, molded products, and tapes, we supply heat release materials and electromagnetic wave protection materials for electric and autonomous driving devices. We also supply aircraft and UAV (Unmanned Aerial Vehicle) interior and exterior parts parts and earbor fiber reinferred plastic medicad products. exterior parts and carbon fiber reinforced plastic molded products.





Heat release materials for EV



Automobile interior materials (foams, etc.)



Carbon fiber composite molded products (photo: Storage compartment joining unit for aircrafts)

We supply products such as adhesives for various industries and molded products made with recycled materials. In particular, we focus on





Recycled plastic containers

rsing care material

Monitoring a



## 02 Urban Infrastructure & Environmental Products Company

We contribute to the development of safe and convenient infrastructure and water environments.

Pipe Systems | Buildings and Infrastructure Composite Materials | Infrastructure Renovation



#### **Pipe Systems**

We supply a wide range of pipes, including water supply/drainage and air conditioning pipes for residences and buildings, valves and high performance pipes for plants, and other pipes for water supply/sewerage in the public sector, for agricultural water, and for electricity and gas supply systems.

We also sell raw materials for CPVC to overseas customers



Valves and piping materials for industrial plants water supply/drainage



Rainwater storage tanks

Chlorinated polyvinyl chloride

#### **Buildings and Infrastructure Composite Materials**

Starting with rain gutters, decking materials and other exterior construction materials, as well as unit bathrooms and other interior construction materials such as home care or independence support facilities, we provide materials for infrastructure such as fire protection materials, sound proofing materials or synthetic wood used as railway sleepers.



Nursing-care/self-reliance equipment



Synthetic lumber railway sleepers, sound proofing materials





Rain gutters

Fire protection materials

#### Infrastructure Renovation

To combat aging infrastructure, which has become a social problem in recent years, we provide technologies ranging from the investigation and deterioration diagnosis of pipelines and non-excavation rehabilitation and renewal methods for sewage systems to tank renewal and water treatment. We also use a range of methods to measure and analyze data.





Sewage pipe renewal methods Functional tanks



UAV photometry

Pipe investigation and deterioration diagnosis

11



air conditioning construction for public buildings

and corrosion resistance, so there are no concerns about corrosion or leaks, and it concerns about corrosion or leaks, and in ightweight and can be installed quickly.



the Website for details

## **03** Housing Company

Housing | Stock | Town and Community Development **Residential Service** 

We conduct business based on the principle of providing environmentally-friendly housing for safe and comfortable living for at least 60 years.

#### Housing

We utilize modular construction methods that use factory production to build steel framed and wooden modular housing that take into consideration comfort, safety and security, environmental friendliness precisely in accordance with design specifications. We have a factory in Thailand and plan to develop the Thai housing market and expand into neighboring countries.





Steel framed modular house (SEKISUI HEIM)





Wooden modular house (SEKISUI Two-U Home) Housing factory in Thailand

#### Stock

Owner suppor

We also offer home renovations to owners of SEKISUI HEIM and SEKISUI Two-U Home residences tailored to each customer's stage in life using a 60-year/long-term support system. In addition, we provide comprehensive solutions to all real estate needs, including purchase and resale, brokerage, and management and guarantee of apartments and condominiums.



Renovatio



Rental housing management and real estate brokering



Purchase and resale



#### **Town and Community Development**

We offer our detached houses and HEIM SUITE brand of condominiums and use SEKISUI CHEMICAL Group products and services including construction and civil engineering materials to implement the SEKISUI Safe & Sound Project to provide the safe, secure, environmentally-friendly, and sustainable towns representative of SEKISUI CHEMICAL Group in collaboration with local government and other companies.



ASAKA Leadt



HEIM SUITE Tsukuba Kasuga



Higashi Matsuvama Leadte





#### **Residential Service**

We supply buildings and services to suit every life stage including construction and operation of housing for the elderly with support, nursing care services, interior and exterior plan proposals, and sale of related goods.

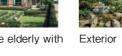




Housing for the elderly with support



Interior





#### Rolling out a new brand for subdivision and ready-built houses that stands out for "Smart and Resilience".

echnologies of the SEKISUI CHEMICAL Group with its expertise in disasters.





Diagnostics | Pharmaceutical Sciences

To raise the quality of life of people around the world, we are providing optimal solutions using the power of science.



#### SEKISUI **Diagnostics**

We manufacture and sell a range of analyzers, including fully-automated blood coagulant analyzers and plastic vacuum blood collection tubes required in various clinical diagnostic agents and clinical tests, with a focus on the blood coagulants, lifestyle diseases, and infectious diseases sectors.





Reagent for the measurement of cholesterol



SARS coronavirus antigen kit

Plastic vacuum blood collection Analyzers tubes

#### **Pharmaceutical Sciences**

This underpins our medical foundations in the three businesses of Pharmaceuticals and Enzymes. Drug Creation Support, and the SMCL\* Center, Implementation of clinical and non-clinical testing of drug substances and raw materials vital for pharmaceutical development, working with drug manufacturers and medical institutions with a range of testing outsourcing, and so on, we contribute to the creation of new medical solutions. Sekisui Medical Creative Laboratory





Raw materials for biopharmaceutical products



Drug development solutions services



New business and new technology development by Corporate R&D

Corporate R&D is developing businesses that will become the future core business (next frontiers) for SEKISUI CHEMICAL Group.

We are focusing on creating innovations that can contribute to solving social issues, primarily in areas such as the environment and energy.

#### **Perovskite Solar Cells**

We are developing perovskite solar cells to support the use of renewable energy.

Because of their light weight, such cells can be installed on the walls of buildings and other structures and the roofs of plants and so on with weight restrictions. We are actively working on verification with a view to commercialization in 2025.



Building walls (in collaboration with NTT Data) [Source: NEDO]



Cover lids for Sewage facilities (joint research with the

Lightweight roofs

## Tokyo Metropolitan Government)

Stationary Lithium-Ion Batteries

We developed and commercialized revolutionary large, thin lithium-ion batteries that achieve large capacity, long life, high safety, and small footprints. Products manufactured at our domestic plants are increasingly used in homes, and save money when paired with solar power. We provide peace of mind for our customers' lifestyles in the event of a disaster. In future, we shall move ahead with expansion to public facilities and so on, contributing to improved renewable energy rates and the creation of resilient communities

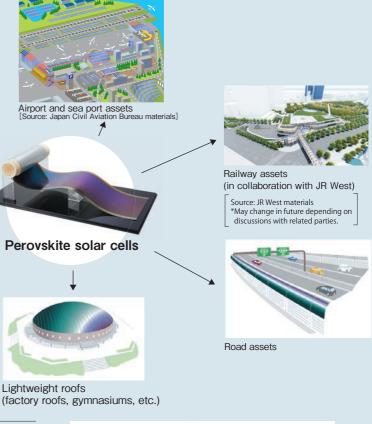
#### **Bio-refinery**

We developed technology that uses microorganisms to convert gas generated by waste incinerators into ethanol. Moving ahead with our collaborations with government and other companies, we started verification test at our demonstration plant in Kuji, Iwate Prefecture (photo) in FY2022, with the goal of commercialization starting in FY2026. Please also take a look at our UNISON brand, which shares a world-view of a recycling society that does not depend on fossil fuels.





Expanded screening for newborns

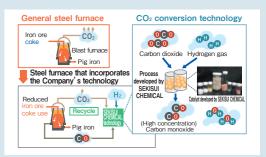






#### Use of CO<sub>2</sub> in the Steel Industry

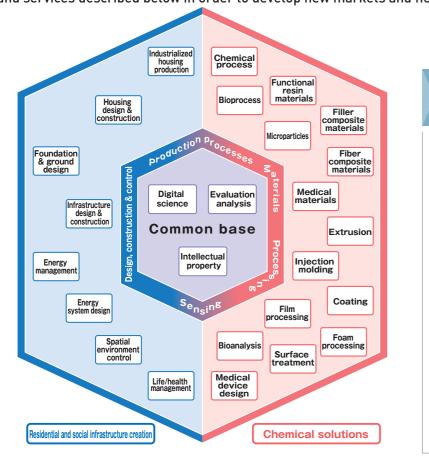
We are developing technology for the separation from gas, collection, and reuse of CO2 emitted when producing steel and are working on international joint research and development with ArcelorMittal, S.A., a world-leading steel and mining company, on carbon recycling for use in steel processing.



## The Origins of **SEKISUI CHEMICAL Group's Innovation: 26 Technological Platforms**

26 technological platforms (TPF) related to the "Residential and Social Infrastructure Creation" and "Chemical Solutions" business fields form the foundations of our value creation. We are refining each of these technologies while combining multiple TPFs to create the prominent products

and services described below in order to develop new markets and fields. We are refining each of these technologies while combining multiple TPFs to create the prominent products and services described below in order to develop new markets and fields.



Contributes to Higher Healthcare Quality through Faster and More Precise Testing!

#### Blood Leucine-rich alpha 2 glycoprotein (LRG) diagnostic reagent Nanopia LRG

Highly-precise fine particles (latex) and antibody acquisition and purification technology enable appropriate diagnosis and follow-up as well as simpler and faster testing as Japan's first home-grown diagnostic reagent for

inflammatory bowel disease

TPF Bioanalvsis Microparticles



#### Achieving Peace of Mind Even During Disasters Without Purchasing Electricity as Far as Possible!

#### Energy self-sufficient homes\* Smart Power Station FX GREENMODEL

High-capacity solar power systems, film-type storage batteries, and home energy management systems (HEMS) are installed on modular frames with high earthquake resistance, high heat insulation, and high airtightness. Lifestyles that use natural energy as far as possible contribute to the global environment, and at the same time, allow continued occupation of homes with peace of mind during disasters. \* Not all electrical needs are met. Electricity must still be purchased from electric companies.





Contributes to increased performance and decreased powe consumption for semiconductors!

#### SELFA UV release tape with strong adhesion

With ample adhesion when used, SEFLA tapes can be easily and cleanly removed using UV light. They are used in advanced semiconductor processing steps. SELFA tapes contribute to achieving cutting-edge semiconductors with increased performance and decreased power





#### Contributes to renewal of aging pipe infrastructure!

#### The SPR-SE Method is the only autonomous pipe renewal construction method that allows renewal of aging pipes while water is flowing through them.

All manner of issues with aging infrastructure are becoming apparent, but countermeasures are not keeping up, so there are numerous accidents caused by this aging. In particular, digging up pipes buried underground like sewage and burying new ones is creating increasing social impact on local residents. The SPR-SE Method does not require excavating the ground or stopping sewage. Instead, it is the only method that can renew severely aging buried pipes with high performance, contributing to safe, secure societies and lifestyles without anyone realizing

TPF
Functional resin materials
×
Extrusion
X
nfrastructure design & construction
etc



#### Allows for water supply piping through integrated lines of fully earthquake-resistant plastic pipes!

#### EsloHyper AW are trusted for their high corrosion resistance and seismic resistance as buried fire-fighting pipes, pit or ceiling pipes, water supply pipes, or buried pipes.

The durability and seismic resistance that previous pipes (metal pipes) were unable to provide have been achieved by using all plastic piping. The pipe and joint materials use a polyethylene resin with high durability and seismic resistance. Moreover, the pipes' own flexibility and electrofusion (EF) bonding allows integrated piping resistant to earthquakes to be laid. EF bonding is very reliable and does not require skill, so allows for speedy construction.



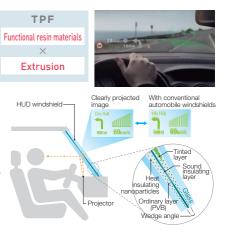
#### Contributes to the Enhanced Safety and Comfort of Automobiles

#### S-LEC Sound and

Solar Film-W:

#### wedge-shaped sound insulation/ heat shielding interlayer films for Head Up Displays (HUDs)

Wedge-shaped interlayer films for HUDs are used to display necessary information on automobile windshields and also have sound and heat insulating functions. By combining various technologies including wedge angle control technology, multilayer extrusion technology, and raw material mixing and nano-dispersion technology. we achieved multiple functions at high levels, contributing to the enhancement of automobile comfort and safety.



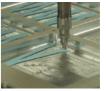
#### Contribute to improving reliability and performance stability for ADAS devices and EV batteries through heat conduction performance!

#### The CGW<sup>®</sup> Series of 2-component liquid RTV thermal conduction greases / MANION Series of high thermally conductive sheets

The CGW series of heat-dissipating greases with low siloxane that can be cured at room temperature, and the MANION series of high thermally conductive sheets allow us to offer proposals for thermal conductivity to suit your needs.

With the spread of EVs (electric vehicles) and the evolution of ADAS (Advanced Driver-assistance Systems), batteries and electronic parts need to offer both higher performance and smaller size. Our solutions can conduct heat away from these, contributing to performance stability, improved reliability, and safety.





CGW Series



MANION Series



#### Controls the Spread of Fire during and after Construction!

#### **PUXFLAME certified** non-flammable heat-insulating urethane foam that is foamed on-site

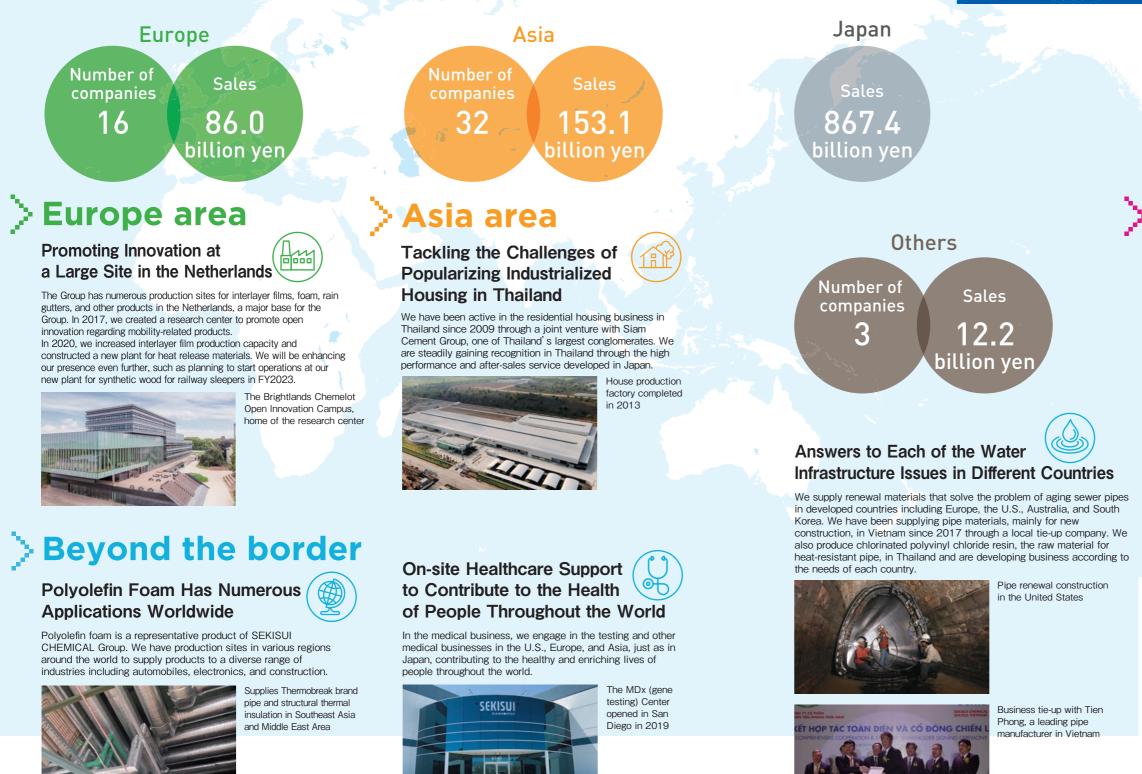
This heat-insulating foam, the first organic material certified in Japan as non-flammable, uses proprietary resin combination technologies and can be foamed on-site. It can curtail the spread of fire after construction and even prevent the occurrence and spread of fire from ignition sources during construction and contributes to shorter installation times.



#### Global

## **SEKISUI CHEMICAL Group Around the World**

SEKISUI CHEMICAL Group became the Japanese first manufacturing company to establish a production site in the United States in 1963 and has actively developed its overseas business ever since. Today, overseas sales are 375.0 billion yen, accounting for 30% of the total. We have set a target of 1 trillion yen of overseas sales in fiscal 2030 and are working to expand business and social contribution in various regions and areas.





well as Environment

Protection Measures

SEKISUI CHEMICAL Group se

Environmental Week" when it

a group-wide "SEKISUI

undertakes environment protection activities in various

regions around the world.

Globally

Measures to remove invasive plants from Central Park in New York City



Mangrove afforestation in Thailand

#### North America Number of Sales companies 123.6 20 billion yen

## >America area

#### Contributing to the Development of the Aviation Industry. Primarily in North America

In the United States, we produce molding plastic sheets for aircraft interior parts and carbon fiber reinforced plastic moldings for interior and exterior use. This business contributes to aircraft safety, comfort, and energy savings



Examples of uses for plastic sheets for molding



Storage compartment ioining unit

#### The Stuff of Sustainable Dreams

The Stuff of Sustainable Dreams series of corporate advertisements run in the electronic version of the Wall Street Journal can be viewed online.

SEKISUI WS CUSTOM CONTENT



\* Sales are on a consolidated basis for FY2022. The number of companies is on a consolidated plus non-consolidated basis as of March 31, 2023.

#### **Sports Activities**

## **Tackling Global Challenges** in Sports Too!

SEKISUI CHEMICAL is actively involved in sports. The SEKISUI CHEMICAL Female Athletics Group (commonly known as the SEKISUI Fairies), established in 1997, earned its first victory in the All Japan Women's Corporate Ekiden (road relay) Race in 2021. Many of our employees have represented Japan in international competition, including the Olympic Games and the World Athletics Championships. In addition, we support tennis player Yasutaka Uchiyama and table tennis player Hina Hayata (under Nippon Life). We are committed to continuing our support for athletes who compete on the world stage.







Tennis player Yasutaka Uchiyama



Table tennis player Hina Havata (under Nippon Life)



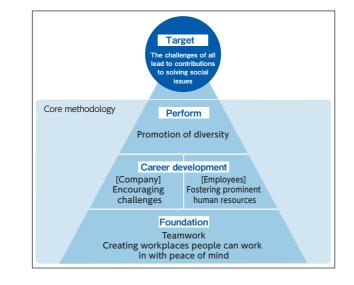
#### Generating Enthusiasm through "Chosen no TASUKI"

As a part of our support for sports, we make every effort to encourage athletes, and the recipients of our support do their very best. The cheering audience, seeing the athletes take on challenges, is also inspired. Each side gives and receives. We place particular importance on this cycle of enthusiasm.

#### Human Resources

## Contributing to Solving Social Issues through **Business by Developing Prominent Human Resources** and Assigning Them to the Most Suitable Positions.

Based on the idea that employees are "precious assets bestowed on us by society," SEKISUI CHEMICAL Group provides various opportunities that support the career autonomy of each individual and refinement of their specialties and also creates forums where employees can perform various missions and tackle challenges with social significance with the aim of creating an image in which employees and the company work together to take on the challenges of solving social issues and contributing to society.



#### **Company Data**

View a movie

31.5%

presenting an overview

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r f c

#### Origin of company name

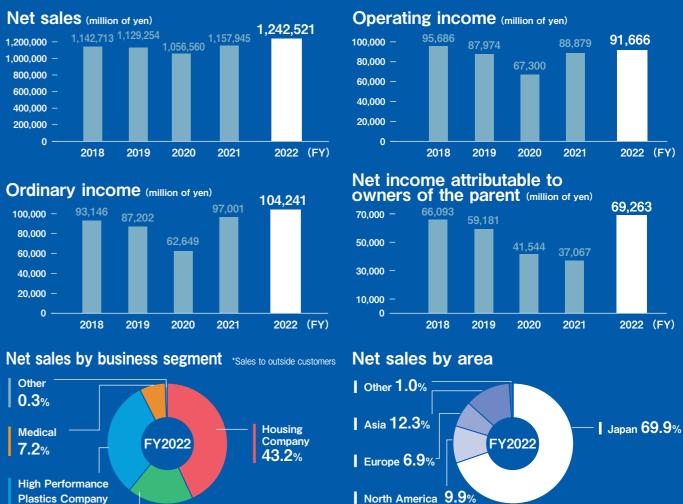




#### **Financial Data on a consolidated basis**

Urban Infrastructure &

Environmental Products Company 17.8%



21



ity, Osaka 530-8565 Japan

yo 105-8566 Japan

a consolidated basis)

prefabricated modular houses; renovation and othe plastic products for various industries including piles, and electronic devices; manufacture and sale equipment: and other business

The company name SEKISUI originated in an expression used in Sun Tzu's Art of War, the oldest classic Chinese military treatise, which means pent-up water, as in the water retained by a dam. From the viewpoint of ensuring successful corporate activities, we understand the term to mean "The victor of a battle is determined in one fell swoop and with tremendous force at a speed of the pent-up waters bursting into a chasm thousand fathoms deep. To be victorious in battle, you have to establish such strategies that will enable you to win in advance".