

KANEKA Biodegradable Polymer Green Planet™

Fusing proprietary technologies to solve worldwide environmental problems

Ocean pollution by microplastics is a global problem.

To help solve this problem, Kaneka has fused proprietary technologies in fermentation and macromolecules to develop KANEKA Biodegradable Polymer Green Planet™, a biodegradable polymer that can be processed into products like straws and shopping bags.

Green Planet[™] is produced by microorganism biosynthesis, in which plant oils are the main raw material. Besides being biodegradable in soil, Green Planet[™] is also biodegradable even in seawater, which is difficult for conventional biodegradable plastics.

Green Planet™ holds promise to contribute to reducing plastic pollutants in the world's oceans.



Goal 12 (Responsible consumption and production)

Ensure sustainable consumption and production patterns



Goal 14 (Life below water)

Conserve and sustainably use the oceans, seas, and marine resources for sustainable development

Solar Cells

Kaneka technology advances industry while protecting the environment

Energy is the key to balancing industrial development with environmental protection. Kaneka is contributing to this goal through developments such as see-through photovoltaic modules, which can be installed like windows so that buildings can generate their own energy, and flexibly designable solar cells that can be incorporated into car bodies.

We believe that giving companies the ability to create their own clean energy can help close the chapter of history in which industrial development came at the expense of the natural environment.



Goal 7 (Affordable and clean energy)

Ensure access to affordable, reliable, sustainable, and modern energy for all



Goal 11 (Sustainable cities and communities)

Make cities and human settlements inclusive, safe, resilient, and sustainable



(Responsible consumption and production)

Ensure sustainable consumption and production patterns



Goal 13 (Climate action)

Take urgent action to combat climate change and its impacts

5G-Supporting Materials

Providing solutions in the era of IoT and Al

Technological innovations of all kinds are ushering in the IoT era and drastically changing people's lives.

Kaneka provides a variety of new materials that contribute to higher-speed, higher-volume data transmission, a sensing revolution, and innovations in information displays.

For materials supporting 5G, the new standard for high-speed, high-volume data transmission, we developed ultra-heat-resistant polyimide film. Able to withstand high frequencies and achieve electrical energy loss reduction among the world's highest, this is just one way we use our strength in materials to pioneer the IoT and AI era.



Goal 9 (Industry, innovation, and infrastructure)

Build resilient infrastructure, promote industrialization, and foster innovation Goal 11 (Sustainable cities and communities)

Make cities and human settlements inclusive, safe, resilient, and

Bio Business

Using state-of-the-art technologies in a never-ending quest to improve people's lives and health

Kaneka's bio business is the one most intertwined with global issues of the environment, and people's food and health. Our development efforts include high-performance fertilizers that promote the safe growth of plants and technologies for dramatically shortening breeding periods.

Our technologies have been in particularly high demand recently in the healthcare field.

Centered on Kaneka's biotechnology and synthesis technology, our contributions to the healthcare field include the supply of synthetic pharmaceuticals and biopharmaceuticals, and the development of virus detection kits.

To meet today's need to coexist with viruses, we launch cross-organizational teams through which we strengthen our technological contributions to the fight against infectious diseases.





Giving the world health through early solutions for society's problems through a strategy of R&B—research and business

We have set the purpose of our R&D activities as "resolving social issues at the earliest opportunity possible by pursuing value from the perspectives of markets and customers through the proactive use of leading-edge technologies" and have redefined R&D as R&B (Research & Business). We provide solutions in four business domains: the Material Solutions Unit, Quality of Life Solutions Unit, Health Care Solutions Unit, and Nutrition **Solutions Unit.**

These units take on the world's crises towards achieving our management vision of "Wellness First."

Macromolecular

technology

Fermentation technology

Drug-coated balloon technology Cell separation and culturing technology Bioorganic synthesis technology

Fusion of self-developed

introduced technologies

technologies with

OLED device designing technology

Thermosetting resin compounding/ processing technology

Metal microfabrication

Thin-film formation

Microbial biopharmaceutical

Biotechnology

processing technology

Resin modification/ blending technology

Precision polymerization

Adsorption separation

Resin foaming technology

Powder granulation technology

R&B's driving force

Kaneka has positioned four business domains to implement its R&B strategy. Within these domains, we further innovate our technologies, expand business models, and create new ones.



Key drivers and technologies









iPS cells / Stem cells

Three crises to solve

Kaneka has positioned the key fields of Environment/energy, Food, and Wellness as three crises facing our world. We believe that overcoming these crises is imperative to enabling a plentiful future for humankind.



Through various developments, such as KANEK Biodegradable Polymer Green Planet™ for biodegradable food packaging and photovoltaic power systems that can be installed on building walls and other surfaces, we aim to create a society where everyone can use clean and sustainable resources and energy.



Through the development of products such as crops resistant to unseasonable weather and changing environments and fertilizers that accelerate crop growth, and the production of high-value-added dairy products through cooperation with dairy farmers, we realize a society where safe, secure, and highly nutritious food is available to everyone and where food producers are also satisfied.

Wellness crisis



By developing safe and highly effective supplements that maintain and improve physical health, and by contributing to the treatment of diseases, even refractory ones, we realize a society where everyone has access to adequate medical services and can continue to live a vibrant and healthy life.

Accelerating R&B strategy through optimal, cross-organizational teams Kaneka has positioned environment/energy, food, and wellness as key fields in its R&B strategy. In each of these fields, we have research divisions connected to our Solutions Vehicles (SVs), so that SVs can come up with comprehensive, strategic solutions. Without regard for the company's vertical organization, we have created teams of laboratories at Kaneka in Japan in order to increase the speed at which we solve problems. But this structure is not limited to Japan. Through cooperation among Kaneka's overseas bases, and collaboration with leading-edge-technology research institutes around the world, we are strengthening our research and development towards applying technologies to products.

Research Framework Realizes R&B Strategy

Laboratories in Japan

We are positively promoting alliances and open innovations that are network-based beyond the border of organizations and companies.

Material Solutions New Research Engine

Engages in R&D on cutting-edge and new products and technologies in functional resins

Regenerative Medicine and Cell Therapy Laboratories

Engages in R&B on devices related to regenerative medicine and cell therapy and new technologies and products related to cellular medicine and therapy.

Process Development Research Laboratories

Engages in the development of innovative processes and production technology for business domains such as photovoltaic cells, organic EL lighting, resin processing, and

Electronics Research Laboratories

Engages in R&D on unique and new products and technologies in the electronics field.

Photovoltaic & Thin Film Device Research Laboratories

Develops new products by expanding the application of photovoltaic cells and transparent electrodes using thin film forming technology and device technology.

Green Planet Technology Laboratories

Engages in technical development on research, composition, processing, and evaluation related to biodegradable polymer.

Biotechnology Research Laboratories

Engages in R&B on new products and technologies in biotechnology and fine

Engineering Research Laboratories

Develops processes and production technology in device-type and assembly-type business domains based on process design technology and chemical engineering analysis technology

Open innovation

We are promoting innovations by collaboration with major domestic and foreign universities and public research institutions in order to provide unique, global number-one, and excellent materials.

√ Main bases >



Kaneka's European Photovoltaics Research Laboratory

Location: Leuven, Belgium Established within imec, this laboratory promotes R&B in high efficiency solar cell technology.



Kaneka US Innovation Center

Location: California, USA This center promotes open innovation including M&A, in addition to research and new development of health

What's New

University of Louvain (UCLouvain)

In October 2020, Kaneka and the university signed a research collaboration agreement in order to develop innovative biomedicine production technologies. The agreement aims to strengthen and expand CDMO business for biomedicines, including providing solutions to social issues such as reducing the costs of expensive biomedicines, and contributing to spreading biomedicines and vaccines used against viral infectious diseases



Contributing to innovation in all fields by expanding the potential of materials

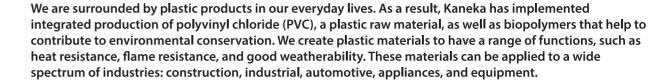
Material Solutions Unit

Material SU

Quality of Life SU

Health Care SU

Nutrition SU



Vinyls and Chlor-Alkali Solutions Vehicle

Our integrated production system includes vinyl chloride monomers, polymers, and vinyl chloride. The goal of these products is to continue contributing to society by supporting daily life and infrastructure.



Chemicals
Caustic soda,
sodium hypochlorite,
hydrochloric acid



lyvinyl chloride nevinyl™



ross-linked PVC (aneka XEL™, (anevinyl™



PVC-PVAc polymers **Kanevinyl™**



iste PVC aneviny**i™ Past**e



hlorinated PVC Kaneka™ CPVC

Performance Polymers (MOD) Solutions Vehicle

These plastic materials that provide heat, weather, and flame resistance help to support daily lifestyles and infrastructure by being versatile and applicable to a variety of fields—including construction, automotive, industrial, appliances, and equipment.



Impact modifiers
Kane Ace™ B,



Processing aids/special additives



Toughener for thermosetting resin



Acrylic film Sunduren™



igineering resin for jection molding



Thermal conductivity

Ingineering

Ilastic compounds

Performance Polymers (MS) Solutions Vehicle

Kaneka's unique resin materials allow the creation of sealing, adhesive, and coating agents whose properties include superb weather resistance, elasticity, and adhesion. We provide a variety of solutions in construction, industry, information equipment, and other fields.



Silyl-terminated polyethe Kaneka MS Polymer™,



Acrylic silicon polyme



Terminally reactive liq acrylic polymer KANEKA XMAP™



Isobutylene-based thermoplastic elastome

Molded foam resin products can be given a variety of functions depending on factors such as the type of resin, the molding method, and the expansion ratio. Such products—used as cushioned packaging, automobile parts, and home insulation—help realize daily convenience and comfort in the food and housing fields. Kaneka also provides proprietary materials and services that save energy and make our lives smarter; for example, exhaust heat treatment technologies for information equipment and aesthetically pleasing photovoltaic power systems. It all adds up to a higher quality of life.

Foam & Residential Techs Solutions Vehicle

Kaneka helps make lives better, whether it's cushioned packaging, fish boxes, insulation to make homes comfortable, bumper core material that makes cars lighter and safer, or constant-temperature shipping packaging.



Polypropylene foam made with the bead method Eperan-PP™



Polystyrene foam made with the bead method KanenearI™



Extruded polystyrene foan insulation **Kanelite Foam™**



external insulation are double ventilation construction method Solar Circuit™



Phase Change Materials (PCM) Kaneka PATTHERMO™

E & I Technology Solutions Vehicle

Chemistry can make electronic equipment that is smaller, performs better, and is more beautiful. We create new value that pioneers cutting-edge fields and makes people's lives better



Polyimide film Pixeo™, Apical™



Extremely high thermal conductivity graphite sheet Graphinity™, others



Transparent film for optical use Flmech™



Optical acrylic resin



lyimide varnish

PV & Energy management Solutions Vehicle

Solar cells are the leading renewable energy solution. Our photovoltaic power systems can be integrated into the roof, windows, and walls so that the building materials themselves generate electricity.



oof tile-integrated photovoltaic modules



Roof tile-integrated photovoltaic modules VISOLA™ (Installation image)



Decorative slate tile-integrate photovoltaic modules



See-through photo modules

Performance Fibers Solutions Vehicle

Fiber products are integral to our lives. In developing Kanekalon $^{\mathbb{M}}$ /Kanecaron, unique fiber products unlike those of other companies, we have provided consumers around the world with new value for a variety of situations.



materials for nair acces products **Kanekalon**™



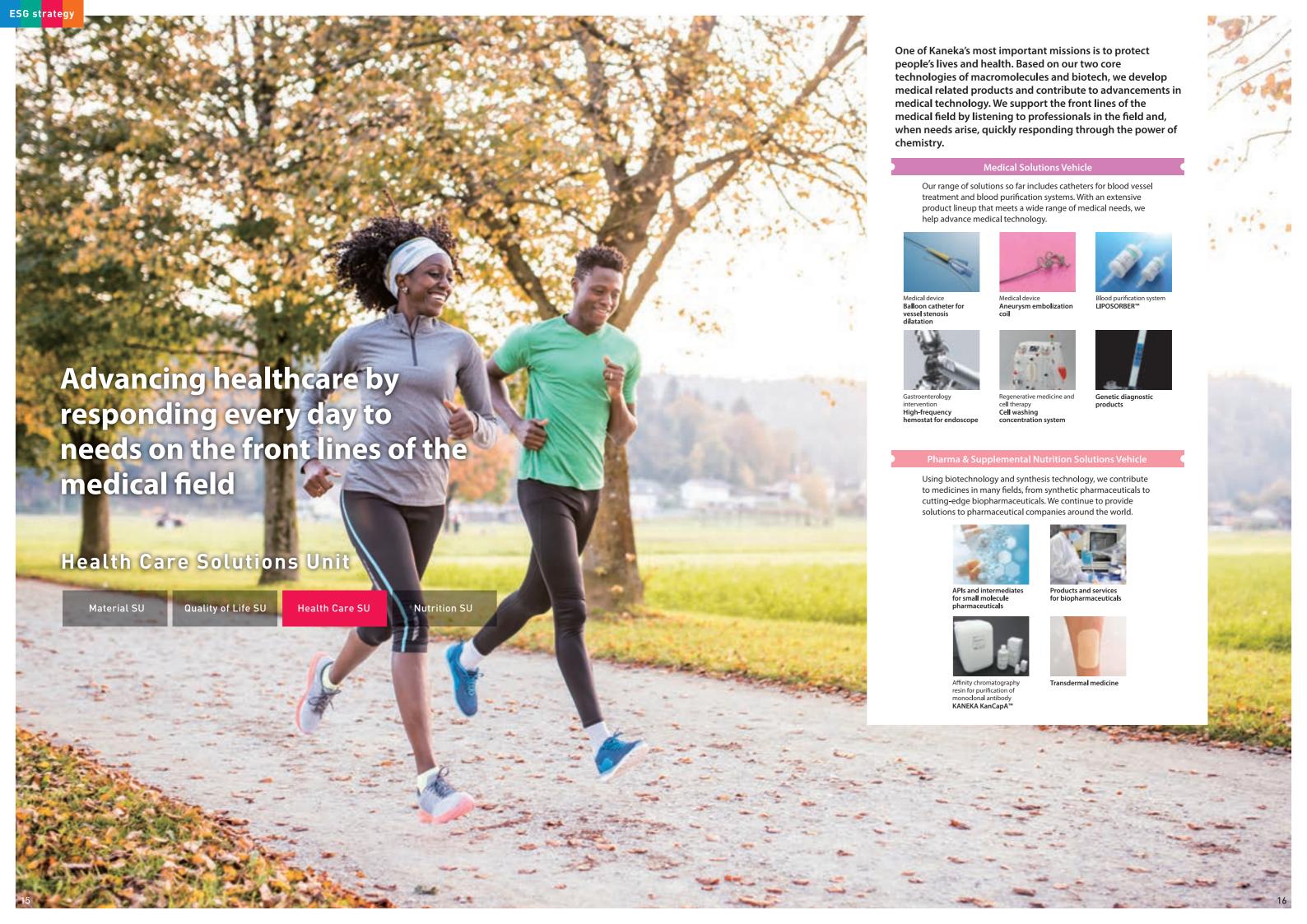
Flame-retardant ma

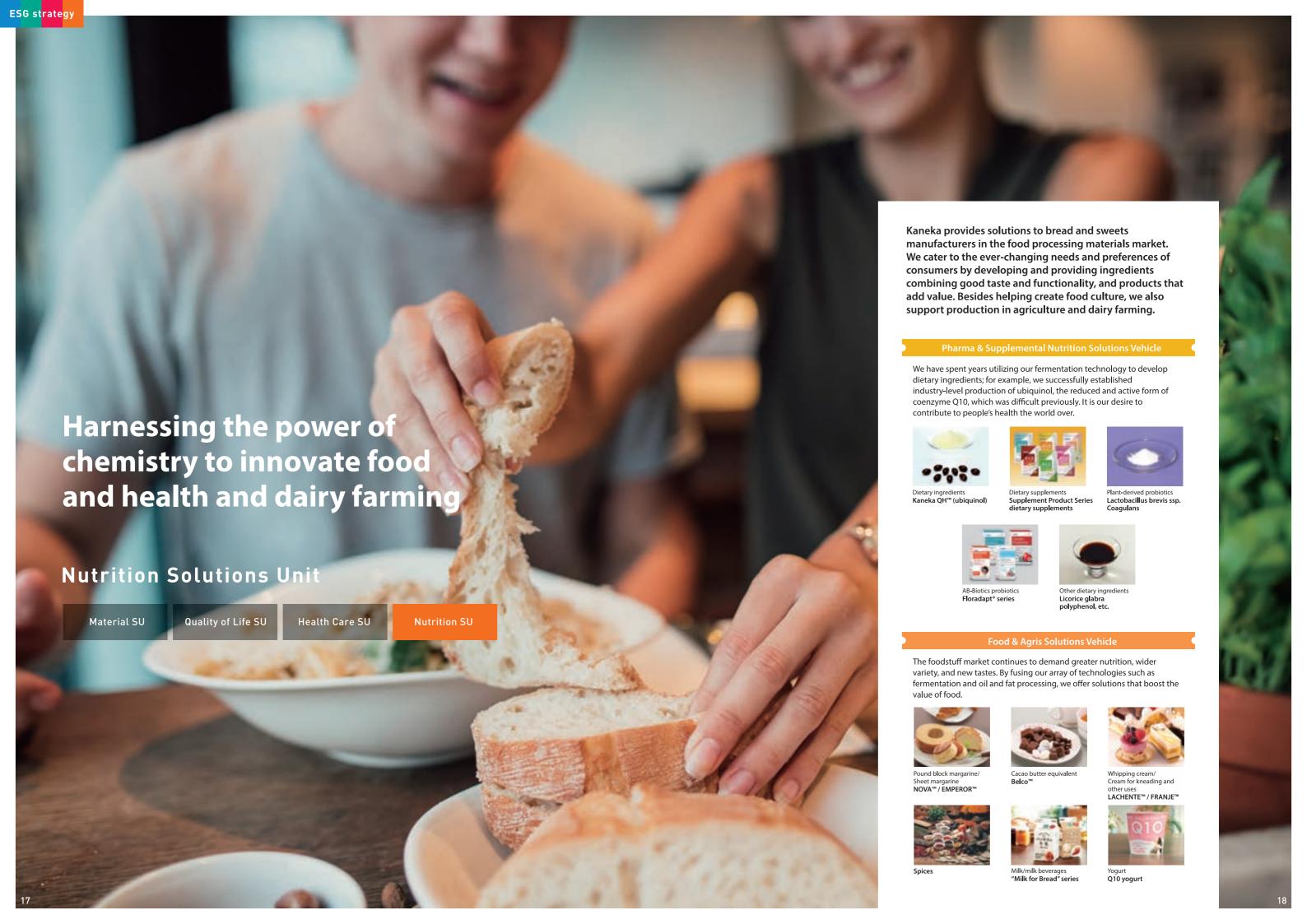


Kanecaron¹



New materials Co**llagen fiber, others**





The Dreamology Company

Make your dreams come true

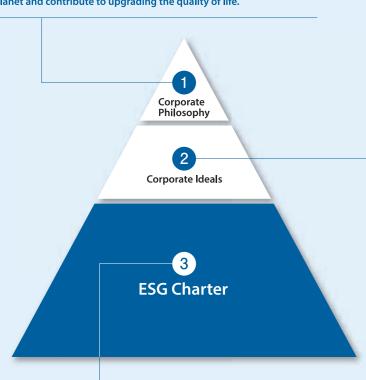
Since its founding in 1949, Kaneka has achieved growth by overcoming changes in the times and business environment through a creative fusion of people and technology. The many materials we create are used by our customers in products essential to rewarding living, and our businesses have come to span wide-ranging fields.

Management Philosophy Structure

Declaration of Kaneka United

In 2009, on the occasion of the 60th anniversary of our founding, in order to achieve the innovation and growth that will lead us into the future, we established a new corporate philosophy and an image of the ideal Kaneka that we should strive to realize. We will also actively work to solve social issues by reinforcing Environment, Social, and Governance initiatives as our management policy.

With people and technology growing together into creative fusion, we will break fresh ground for the future and tie in to explore New Values. We are also committed to challenge the environmental issues of our planet and contribute to upgrading the quality of life.



Toward an Even More Impressive and Productive Future

Hold in your hands the future you have always dreamed of. We are a highly perceptive and collaborative value-creating group or, as we like to say, a "Dreamology Company.*" We want to look at the future from the same perspective as our customers. The future that Kaneka visualizes is one that connects us with our customers.

*"Dreamology" is an expression coined from 'dream' and 'ology' (science) Our "Dreamology Company" is a "highly perceptive and collaborative value-creating group."

Five "Ties"

1. Tie to the future

As a research and development company brimming with creative energy and passion, we will create future-oriented businesses that leap beyond current market needs and back them up with new product development, thus protecting the global environment and contributing to the quality of life.

2. Tie to the world

We are determined to become a truly global enterprise with diverse human resources working together on a global scale. Our presence will be felt in markets around the world, including newly emerging ones.

3. Tie with value

We are proud of our unity and identity as the Kaneka Group and will take on the challenges of value creation and business innovation through close collaboration.

4. Tie for innovation

We will never cease to pursue innovation, fusing wisdom from both internal and external sources without getting caught up in organizational compartmentalization and conventional ways of doing things.

5. Tie with people

We in the Kaneka Group believe that the wellspring of corporate growth resides in human resources and will continue to seek innovation as we cultivate and nurture our valued employees.

Putting the Corporate Philosophy Into Practice

- 1. We offer solutions characterized by value to global markets and contribute to the evolution of lifestyles and the environment through innovative chemistry.
- 1 We bring innovation to lifestyles and the environment by harnessing the unlimited potential of chemical materials to help communities achieve sustainability. (Earthology Chemical Solution)
- 2 By adopting a unified approach to food and medicine that is defined by a focus on chemistry, we provide innovative solutions that empower people to live healthier lives. (Active Human Life Solution)
- 2. We fulfill our social responsibility by empowering individual employees to put our corporate philosophy into practice through serious, forward-looking effort.
- 1 We actively contribute to our communities by cultivating understanding of the cultures and customs of the countries and regions where we do business and by pursuing corporate activities that are deeply rooted in those communities.
- 2 We operate our businesses in a fair and impartial manner based on the principles of free competition and legal compliance.
- We're committed to communicating with shareholders and other stakeholders and to making information about our operations available in a timely and appropriate manner.
- 4 We strive to foster an organizational culture that respects the personalities and uniqueness of all employees so that they can enjoy good health, feel motivated, and make the most of their abilities.
- 6 Reflecting a commitment to make safety the top priority in our operations, we work to create safe and healthy workplaces, ensure product safety, and protect and preserve the environment.

In 2018, Kaneka Group established the ESG Charter, aiming to evolve its ESG management.

■ Corporate Profile

President Minoru Tanaka

Date of establishment September 1, 1949

Tokyo Head Office 1-12-32, Akasaka, Minato-ku, Tokyo 107-6028, Japan Tel: +81-3-5574-8000 Fax: +81-3-5574-8121

KANEKA CORPORATION

Osaka Head Office 2-3-18, Nakanoshima, Kita-ku, Osaka 530-8288, Japan Tel: +81-6-6226-5050 Fax: +81-6-6226-5037

(As of March 31, 2021)

Paid-in capital 33,046 million yen

Number of employees 11,272 (including consolidated subsidiaries);

3,551 (Kaneka Corporation)

Line of business

Vinyls and Chlor-Alkali, Performance Polymers (MOD),
Performance Polymers (MS), Foam & Residential Techs,
E & I Technology, PV & Energy management, Performance

Fibers, Medical, Pharma & Supplemental Nutrition, Foods

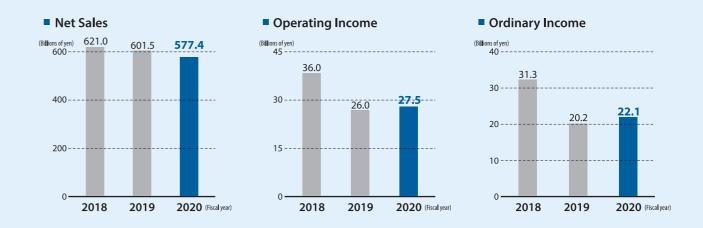
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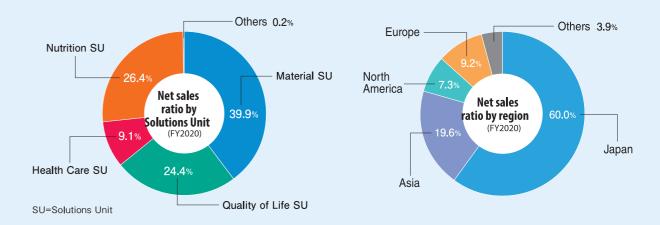
Sales office

Laboratories

- Nagova Sales Office (Aichi): Tel: +81-52-959-5761
- Takasago Manufacturing Site (Hyogo); Tel: +81-79-445-2500
- Osaka Manufacturing Site (Osaka); Tel: +81-72-650-2600
- Shiga Manufacturing Site (Shiga); Tel: +81-77-577-2100
- Kashima Manufacturing Site (Ibaraki); Tel: +81-0299-96-2341
- Material Solutions New Research Engine (Osaka Manufacturing Site)
- Electronics Research Laboratories (Osaka Manufacturing Site)
- Biotechnology Research Laboratories (Takasago Manufacturing Site)
- Regenerative Medicine and Cell Therapy Laboratories (Kobe MI R&D Center)
- Photovoltaic & Thin Film Device Research Laboratories (Osaka Manufacturing Site)
- Engineering Research Laboratories (Takasago Manufacturing Site)
- Process Development Research Laboratories (Osaka Manufacturing
- Site, Toyooka Development Center)
- Green Planet Technology Laboratories (Osaka Manufacturing Site)

Kaneka Group 89 consolidated subsidiaries





Our strength is in our worldwide network

In addition to its coverage of Japan, Kaneka's network stretches from Europe to the

Our regional holding companies allow us to quickly develop locally geared businesses.

Overseas Group Companies

Overseas subsidiaries and officesOverseas R&B facilities

EUROPE/AFRICA

- Kaneka Europe Holding Company N.V.
- Kaneka Belgium N.V.
- Kaneka Medical Europe N.V.
- Kaneka Eurogentec S.A.
- Kaneka Modifiers Deutschland GmbH
- Eurogentec Deutschland GmbH
- Eurogentec Proteomics GmbH
- Eurogentec Ltd.
- Eurogentec France S.A.S.U.
- Eurogentec Nederland B.V.
- AB-Biotics, S.A.
- Kaneka Africa Liaison Office
- Kaneka's European Photovoltaics Research Laboratory



Kaneka Europe Holding Company N.V. Kaneka Belgium N.V.



Kaneka Belgium N.V. Oevel Plant



Kaneka Eurogentec S.A.

THE AMERICAS

- Kaneka Americas Holding, Inc.
- Kaneka North America LLC
- Kaneka Medical America LLC
- Kaneka Aerospace LLC
- Anaspec Inc.
- Cemedine North America LLC
- Eurogentec North America Inc.
- Kaneka South America Representative Ltd.
- Kaneka US Innovation Center



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Kaneka Americas Holding, Inc.





Kaneka Asia Co., Ltd. Kaneka Trading (Shanghai) Co., Ltd.

Kaneka (Malaysia) Sdn. Bhd. Kaneka Eperan Sdn. Bhd. Kaneka Paste Polymers Sdn. Bhd. Kaneka Innovative Fibers Sdn. Bhd. Kaneka Apical Malaysia Sdn. Bhd. 21 Kaneka MS Malaysia Sdn. Bhd.





Kaneka Medical Vietnam Co., Ltd.

ASIA/OCEANIA

- Kaneka Asia Co., Ltd.
- Kaneka Trading (Shanghai) Co., Ltd.
- Kaneka Eperan (Suzhou) Co., Ltd.
- HiHua Fiber Co., Ltd.
- Kaneka (Foshan) High Performance Materials Co., Ltd.
- Cemedine Shanghai Co., Ltd.
- Dalian Showa Plastic Co., Ltd.
- Kaneka (Malaysia) Sdn. Bhd.
- Kaneka Eperan Sdn. Bhd.
- Kaneka Paste Polymers Sdn. Bhd.
- Kaneka Innovative Fibers Sdn. Bhd.
- Kaneka Apical Malaysia Sdn. Bhd.
- Kaneka MS Malaysia Sdn. Bhd.
- Kaneka Singapore Co. (Pte.) Ltd. AB-Biotics Pte. Ltd.
- Kaneka Medical Vietnam Co., Ltd.

- KSS Vietnam Co., Ltd.
- Vina Showa Co., Ltd.
- Kaneka (Thailand) Co., Ltd. Asia Cemedine Co., Ltd.
- Showa Global (Thailand) Co., Ltd.
- Cemedine (Thailand) Co., Ltd.
- Kaneka India Pvt. Ltd. PT. Kaneka Foods Indonesia
- Kaneka Taiwan Co., Ltd.
- Taiwan Cemedine Co., Ltd.
- Kaneka Korea Corporation
- Cemedine Philippines Corporation
- Showa Global Ltd.
- TGA Pastry Company Pty. Ltd.

History driven by innovation and challenge

Kaneka's approximately 70-year journey has not always been smooth sailing. It has been a challenging one in which we have boldly faced, and overcome, one unforeseen difficulty after another. We have turned adversities into successes—pain into gain. This desire to succeed is in Kaneka's DNA.







Kaneka Coenzyme Q10



Balloon catheter



KANEKA Surfactin



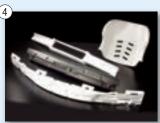


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Foundation-1990s

- 1949 Established Kaneka Corporation with ¥200 million capital
 - Developed polyvinyl chloride (PVC),
- 1950 Started first production of PVC wire
- 1953 Started large-scale production of margarine and shortening.
- **1957** Developed and marketed Kanecaron. ②
- 1960 Takasago Plant Kanevinyl facilities were completed and production began.
- 1964 Developed and marketed Kane Ace B.
- 1965 Developed and marketed expandable polystyrene, Kanepearl.
 - Started sales of Kanekalon wig, Fontaine (sold business in 1985).
- 1967 Developed a PVC paste which began production and sales as Kanevinyl Paste.
- 1968 Developed heat-resistant Kanevinyl and commenced production and sales.
 - Established Europe office and New York
- 1970 Developed and marketed extruded polystyrene foam board, Kanelite Foam
 - Established Kaneka Belgium N.V. ③
- 1971 Established Kaneka America Corporation.
- 1973 Developed and marketed polyethylene foam using bead method, Eperan.
 - Developed and marketed bonded magnet, Kaneka Flux.
- 1974 Developed Glutathione, pharmaceutical intermediate for hepatic medicines, using fermentation, and started production.
- 1977 Developed and marketed Ubidecarenone, pharmaceutical bulk for cardiac medicines.
- 1978 Developed and marketed weather-resistant MMA resin-based film, Sunduren.
- 1979 Established Kaneka Singapore Co. (Pte.)
 - Developed and marketed silyl-terminated polyethers, Kaneka MS Polymer.
- 1980 Marketed pharmaceutical intermediates,
- 1982 Established Kaneka Texas Corporation (now Kaneka North America LLC).
- 1983 Developed and marketed AMMPA Kaneka. intermediate for anti-hypertensive
 - Developed and marketed acrylic silicon polymer, Kaneka Gemlac

- 1984 Developed and marketed amorphous photovoltaic modules
 - Developed and marketed polyimide film,
- 1985 Developed and marketed polypropylene foam using bead method, Eperan-PP. ④
- 1986 Commercialized blood purification system and commenced production and sale of the SULFLUX membrane-type plasma separator, and the LIPOSORBER low-density lipoprotein (LDL) absorber.
- 1987 Established Kaneka Germany (now Kaneka Pharma Europe N.V.).
 - Received prize from the Society of Fiber Science and Technology, Japan for Kanekalon coloring and spinning method.
- 1989 Established Allied-Apical Co. (now Kaneka North America LLC).
 - Received award from the Society of Polymer Science of Japan for plasmapheresis system
 - Developed modified PET resin, Kaneka
- 1990 Allied-Apical commences production of
- Developed and marketed Selesorb, a selective adsorption column for systemic lupus ervthematosus.
- 1992 Established Kaneka Technical Service Co.,
- 1994 Manufacturing approval obtained for Lixelle plasma purification device for use in the treatment of dialysis-related
 - Established Kaneka Pharma Europe N.V.
- 1995 Marketed transparent film, Elmech. (5)
 - Established Kaneka (Malaysia) Sdn. Bhd.
- 1996 Established Kaneka Eperan Sdn. Bhd.
- 1997 Established Kaneka Pharma America LLC
 - Kaneka Malaysia began production of Eperan and MRS resin
 - Established Kaneka High-Tech Materials (now Kaneka North America) to carry on the business operations of Allied-Apical.
 - Kashima Manufacturing Site production facilities completed for Epion liquid polvisobutylene resin.
 - Kaneka Belgium began production of MS
- 1998 Established Kaneka Consulting (Shanghai) Co., Ltd. (now Kaneka Trading [Shanghai]
 - Established Kaneka Solartech to produce amorphous silicon solar panels
- 1999 Established Kaneka Paste Polymers Sdn.

2000s-

- 2000 Developed word's first non-fluorocarbon, non-halogen foaming agent Kanelite Foam, JIS category 3 insulation panel.
- 2002 Began to sell the dietary ingredient Kaneka Coenzyme O10. 6
 - Began to sell Japan's first embolization coil
- **2003** Developed protein fiber and established HiHua Fiber Co., Ltd. in China.
 - Established Suzhou Eperan Plastic Ltd. (now Kaneka Eperan [Suzhou] Co., Ltd.)
- 2005 Developed the industry's first acryl grafted-vinyl chloride copolymer,
- 2006 Industrialized the world's first Telechelic polyacrylate.
- 2007 Established Kaneka Pharma Vietnam Co.,
 - Developed Japan's smallest balloon catheter for use in the treatment of heart disease. (7)
- 2008 Developed a new resin with high mechanical strength and high light resistance, ILLUMIKA.
 - Developed world's most advanced high thermal conductive graphite sheet, Graphinity.
 - Began commercial production of the isobutylene thermoplastic elastomer
- **2009** Started sales of KANEKA Surfactin biosurfactant. (8)
- **2010** Developed new thermally conductive plastics with electric insulating properties.
 - Rolled out Organic EL Lighting Panels
 - Established Kaneka India Pvt. Ltd.
 - Established Kaneka Innovative Fibers Sdn.
 - Formed capital alliance with Belgian biotechnology firm, Eurogentec S.A.
- 2011 Started operation at a newly completed pilot production facility for 100% plant-derived biopolymers at the Takasago Manufacturing Site.
 - Established Kaneka Modifiers Deutschland GmbH.
 - Established Kaneka Taiwan Co., Ltd.
 - Established Kaneka Korea Corporation.
 - Established Kaneka (Foshan) High Performance Materials Co., Ltd.
 - Developed a new thermosetting imide resin for a carbon fiber-reinforced composite material with high heat resistance.
- 2012 Established Kaneka Asia Co., Ltd., an Asia regional holding company in Shanghai 9, and Kaneka Americas Holding, Inc., an Americas regional holding company in Texas, U.S.
 - Established Kaneka Apical Malaysia Sdn.
 - Started sales of Kaneka Antifreeze Protein.

- 2013 Established Kaneka South America Representative Ltd. in Brazil.
 - Established PT. Kaneka Foods Indonesia. Established Kaneka US Material Research Center within Texas A&M University.
- 2014 Commenced sale of organic EL lighting panels with the world's longest service life
- and excellent color stability. 2015 • Signed the United Nations Global Compact, a concept advocated by former UN
 - Secretary-General Kofi Annan. Established Kaneka Europe Holding Company N.V.
 - A PTA balloon catheter jointly developed with Terumo Corporation for use in peripheral blood vessel therapy went on sale in the U.S.
 - Established Kaneka MS Malaysia Sdn. Bhd. Established a research facility specializing
- in regenerative medicine and cell therapy. 2016 • Acquired a shareholding in Cemedine Co., Ltd., which became a consolidated subsidiary.
 - Opened Kaneka Africa Liaison Office in
- Established Kaneka US Innovation Center.
- 2017 Established Kaneka Hokkaido Co., Ltd. Acquired a U.S. formulated advanced resin
 - supplier (Kaneka Aerospace LLC). Concluded license contract with a European company and entered the
- drug-coated balloon business. **2018** • Kaneka Aerospace acquired the composites portfolio of Henkel Corporation.
 - Rolled out the dairy products business.
 - Invested in AB-Biotics S.A. and concluded a license agreement for production and sales of its probiotics products.
 - Kaneka's biodegradable plastic shopping bags adopted in JICA's Collaboration Program with the Private Sector for Disseminating Japanese Technology.
- 2019 Invested in a US-based medical device company.
 - Started production of Eperan and Eperan-PP at Kaneka (Thailand) Co., Ltd.
 - Launched Belgian Yogurt Pur Natur.
 - Kaneka Biodegradable Polymer listed in the Plastics Implementing Measures of the European Commission for use with all food
 - Began to sell a new coil for embolization of
- **2020** Kaneka's see-through photovoltaic modules were adopted in the Japan National Stadium, 10
 - Concluded an agreement with Fujifilm Corporation to supply active pharmaceutical ingredients for Avigan™
 - Kaneka Biodegradable Polymer adopted in straws for Seven Café's new lineup.
 - Joined a consortium for the production of a DNA vaccine for COVID-19.
 - Signed an agreement with Japan Tobacco Inc. to acquire assets related to plant biotechnology.
 - Developed ultra-heat-resistant polyimide film for 5G millimeter wave zones.

Overseas business

Trust built on the power of products



Material Solutions Unit

Caustic soda, sodium



Kaneviny

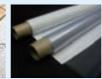


Kaneka XEL™.

Kaneviny**i**™



KanevinyI™ Paste



PRICTMFR™





Chlorinated PVC Kaneka™ CPVC

Performance Solutions Vehicle





Processing aids/specialty Kane Ace™ PA



Toughener for Kane Ace™ MX



Sunduren[™]

iniection molding Kaneka Hyperite™





engineering plastic compounds

Performance



Kaneka MS Polymer™, Kaneka Gemlac™ Silyl™





acrylic polymer KANEKA XMAP™



Nutrition Solutions Unit

Pharma & Nutrition







Other dietary ingredients Plant-derived probiotics Lactobaci us brevis ssp. Coaqulans





AB-Biotics probiotics Floradapt® series



Products containing ubiquinol dietary supplements, Q10 yogurt



Pound block margarine/ Sheet margarine NOVA™ / EMPEROR™



Cacao butter equivalent



Whipping cream/ Baker's yeast Cream for kneading and Kaneka™ Yeast other uses LACHENTE™ / FRANJE"





Frozen dough





Fats and oils/

Kaneka Fermented Butter Unsalted

Quality of Life Solutions Unit





Polypropylene foam made with the bead method with the bead method





External insulation and construction method Solar Circuit™



Phase Change Materials Kaneka PATTHERMO™



Extremely high thermal conductivity graphite sheet Graphinity"



Elmech™

Kanepearl™



Extruded polystyrene

Kanelite Foam™

Transparent film for optical Optical acrylic resin





Extruded polystyrene

Processed Kanelite

foam insulation

PV & Energy management Solutions Vehicle

E & I Technology **Solutions Vehicle**



Polyimide film Pixeo™, Apical™

Decorative slate tile-integrated photovoltaic modules visola Roof tile-integrated photovoltaic modules visola ™







Photovoltaic modules designed specifically for synthetic slate tiles SoltileX™



GRANSOLA™



Photovoltaic modules for inclined roofs and deck roofs photovoltaic modules



Materials for hair accessory Fco fur products Kanekalon™



Kanecaron™





Kanecaron™, Protex™ Collagen fiber, others

Health Care Solutions Unit



Medical device Balloon catheter for

pharmaceuticals



Medical device Aneurysm embolization LIPOSORBER™





Gastroenterology High-frequency Cell washing hemostat for endoscope concentration system



Genetic diagnostic

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Affinity chromatography resin for purification of monoclonal antibody KANEKA KanCapA[™]



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APIs and intermediates for small molecule Products and services for biopharmaceuticals



