Creating for Tomorrow

The commitment of the Asahi Kasei Group:
To do all that we can in every era to help the people of the world make the most of life and attain fulfillment in living.
Since our founding, we have always been deeply committed to contributing to the development of society, boldly anticipating the emergence of new needs.
This is what we mean by “Creating for Tomorrow.”

Asahi Kasei Products and Technologies in Everyday Life

The Asahi Kasei Group’s products and technologies, ranging from Hebel®Haus™ unit homes and Saran Wrap™ cling film, and electronic parts used in computers and smartphones, to performance resins for automotive applications, and pharmaceutically and AEDs that support people’s lives, are used in various ways all around us.

Office

- Dishwashing detergent
- Filtration at waterworks plant
- Bottom-line nanomembrane
- Food preservation, cooking
- Printing of packages (shelf-life extended)
- Plastic shopping bags (biodegradable)
- Foods and beverages (preservative-free bottled)
- Covering fabric for sofas (antibacterial)

Living room

- Video game console (HD monitor)
- Solar cell (Solar™ film)
- Homesite (house, apartment building, condominium)
- Construction materials (building materials, concrete, panels)

Bedroom

- Alkaps (medical treatment)
- Car navigation & audio system
- Water filters
- Batteries (lithium-ion, fuel cell, high-capacity, high-voltage)

Automobile

- Car seat (reclining seat)
- Electronic parts
- Solar cells
- Knapsacks
- Disposable plastic cups
- PET bottles (oral care products)

Hospital

- Home electronics (blenders, flashlights)
- Electronic parts
- Solar cells
- Batteries (lithium-ion, fuel cell, high-capacity, high-voltage)

Bathroom

- Food storage bags and containers
- Smartphones, laptop computers
- Batteries (lithium-ion, fuel cell, high-capacity, high-voltage)
- Personal care
- Medical devices (implants, therapeutic appliances, devices)

Bedroom

- Prescription drugs
- Diagnostic microscopes
- Drug manufacturing (various medical items)
- Shampoo (hair and skin care)
- Belts (plastic film)
- Facial masks (plastic film)
- Nails care products (plastic film and materials)
Asahi Kasei History

History of diversification and taking challenges to meet the needs of the times

The Asahi Kasei Group has consistently grown through the proactive transformation of its business portfolio to meet the evolving needs of every age. We have consistently provided products and services that form solutions to various environmental and social challenges.

1922
Asahi Fabric Co., Ltd. established (founding of Asahi Kasei)

1923
Japan's first industrial production of acrylic by chemical synthesis

1929
Synthetic resin operation begins with start of production of Gardex™ acrylic acid

1931
Production of Naramo™ resin begins

1946
Name changed to Asahi Chemical Industry Co., Ltd.

1957
Synthetic resin operations begin with start of production of Gardex™ acrylic acid

1959
Fabrication of plastic product operations begins with introduction of Saran Wrap™ sealing film to the Japanese market

1960
Petroleum operations begin with establishment of Saday Pharmaceuticals Co., Ltd.

1965
Construction materials operations begin with start of production of Hikari™ asphalt-impregnated concrete panel

1967
Housing operations begin with launch of Hikari™ unit houses

1968
Pharmaceutical product operations begin with regulatory approval for Saran Wrap™ extrusion-oriented agent

1971
Production of Hikari™ sheeted polyester film begins

1972
Asahi Kasei Homes Corp., established

1974
Asahi Medical Co., Ltd. established and medical device operations begin with start of artificial kidney production

2000
Performance resin compound facilities in Europe and US acquired from Nippon Steel Chemical Co., Ltd.

2011
Entry into medical device operations with acquisition of Zoll Medical Corporation of the US

2013
Entry into medical device operations with acquisition of Polygram International Inc. of the US

2016
Transformation to an operating holding company configuration (Asahi Kasei Europe GmbH established)

2018
Automotive interior material operations reinforced with acquisition of Sagami Automotive Interior Co., Ltd. of the US

2019
Launch of Hikari™ Battersby—an anion-exchange resin

2019
Pharmaceutical and biopharmaceuticals manufacturer Tangent Inc., merged with Asahi Chemical

2019
Foods operations transferred to Japan Tobacco Inc.

2020
Name changed to Asahi Kasei Corp.

2021
ShinOHK and Kansai-katsumi-kogyo operations transferred to Asahi Europe, Ltd.

2022
Asahi Kasei Health Care, established

2023
Asahi Kasei Pharma., established

2024
Asahi Kasei Foods, established

2025
Asahi Kasei Chemicals, established

2026
Asahi Kasei Enzymes, established

2027
Asahi Kasei Materials, established

2028
Asahi Kasei Real Estate, established

2029
Asahi Kasei Capital, established

2030
Asahi Kasei Energy, established

2031
Asahi Kasei Industrial, established

2032
Asahi Kasei Infrastructure, established

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Asahi Kasei Resources, established

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Asahi Kasei Technology, established

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Asahi Kasei Innovation, established

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Asahi Kasei Sustainability, established

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Asahi Kasei Education, established

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Asahi Kasei Foundation, established

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Asahi Kasei Foundation, established
**Material**

With advanced technology and innovative concepts, we develop materials and products that are environmentally friendly with high added value to open new possibilities for the future.

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**Basic Materials**

**Operating company**
Asahi Kasei

Having products such as caustic soda, chlorine, acrylicitrile, styrene, methyl methacrylate, acrylic acid, polyethylene, polypropylene, and other petrochemicals, this business supports a wide range of industries while advancing environmental technology innovation with responsibility for the overall energy policy of the Asahi Kasei Group.

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**Performance Products**

**Operating company**
Asahi Kasei

A broad group of competitive products such as fibers & textiles, performance plastics, and S-SBR for fuel-efficient tires lead the global expansion of business; while kitchen & household products and packaging films are mainly supplied to the Japanese market.

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**Acrylonitrile**

Acrylonitrile is the key production material for acrylic fiber, ABS resin, and many other products. Markets around the world are supplied from our plants in Japan, Korea, and Thailand.

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**Sunflex™ ultra-high molecular weight polyethylene**

Developed with original technology, this polyethylene powder is used to make lithium battery separators and lightweight films.

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**Nonwoven fabric**

Our wide variety of nonwovens includes spunbond for disposable diapers and artificial suede for high-end clothing and automotive interiors.

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**Leona™ nylon 66 filament**

Featuring exceptional strength, heat resistance, and durability, Leona™ is used for air bags and tire cord, with demand continuing to grow.

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**S-SBR for fuel-efficient tires**

Asahi Kasei’s S-SBR enables improved fuel efficiency without compromising braking performance. It is produced in Japan and Singapore.

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**Performance resins**

Performance resins including polycarbonate, ETFE, polyvinylidene fluoride, and SAN are widely used in various automotive and home electronics applications.

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**Bemberg™ cupro fiber**

Featuring a smooth feel, attractive luster, and moisture absorption, Bemberg™ from cotton fiber is used in applications ranging from high-quality suits to functional innomar and other garments.

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**Saran Wrap™ cling film**

Featuring superior cling, barrier performance, and heat resistance, Saran Wrap™ has been Japan’s leading food wrapping film for more than 50 years.

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**Specialty Solutions**

**Operating company**
Asahi Kasei

A wide variety of high-value-added products includes lithium battery separators, electronic and functional materials, silicohatai electrolyte systems featuring high energy efficiency, additives for pharmaceuticals and foods, coating materials for vehicles and electronics, and industrial explosives and explosion-bonded metal clips.

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**Suntan™ photosensitive dry film**

Used for advanced high-end applications in the fields of printed wiring boards and semiconductor packages.

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**Ion-exchange membrane systems**

Our energy-related, ion-exchange membranes and systems for lithium-ion batteries provide a total solution, setting the world’s leading market share.

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**Hilrep™ and Celgard™ Li-ion battery separator**

These separator membranes act as an insulator in Li-ion cells, batteries, with use separating in automotive applications in addition to consumer products such as mobile electronics.

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**Daramic™ lead-acid battery separator**

The growing need of more than 1 billion vehicles that utilize lead-acid batteries will need to be replaced.

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**Electronics**

**Operating company**
Asahi Kasei Microdevices

Our highly functional electronic devices include LSIs with unique mixed-signal technology, various sensors such as magnetic sensors and infrared sensors utilizing original compound semiconductor technology, and energy-efficient and eco-friendly LVC LEDs for illumination of water and air.

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**LSIs for audio & voice**

With a high market share for over 10 years in the audio market, we continue to evolve a wide range of technologies used in sound, and provide LSIs for various applications including automobiles and smartphones.

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**Electronic compass**

We have the world’s leading market share for electronic compasses, which are used for electronic map applications on smartphones such as pedestrian navigation systems.
Homes

Centered on Hebel Haus™ unit homes and Hebel™ AAC panels, we enable a safe, healthy, and comfortable life with technologies and services that are friendly to people and the environment.

Hebel Haus™

Our "Long Life Homes" products feature exceptional material resistance, durability, and adaptability to lifestyle changes, providing safety, security, and comfort.

Hebel Maison™

Built with high-performance materials and components, featuring innovative and high-function designs, and backed by long-term services, our apartment buildings enable superior residential satisfaction over the long term, yielding a truly rich living environment.

Hebel Rooms™

apartment rental network

We have a network of rental apartments featuring fire resistance, earthquake resistance, and heat insulation, that meet various tenants’ needs.

Construction Materials

Our construction materials business includes solutions-oriented products and related services such as Hebel™ autoclaved aerated concrete (AAC) panels, Neoma Foam™ phenolic foam insulation panels, foundation systems, and steel-frame structural components. With our new products, we continuously strive for improvements and innovations to create new value for the future of high-quality space.

Acute Critical Care

Our acute critical care business is based on our expertise in resuscitation technology. Our new ZOLL™ brand of products, including a comprehensive product portfolio that includes professional defibrillators and automated external defibrillators (AEDs), as well as a remote delivery, portables ventilators, a highly-efficient intravascular system for managing the core temperature of critically ill patients, and data management systems for care activities. We continue to exceed operations in the field of acute critical care to enable better outcomes for patients around the world.

Health Care

We contribute to progress in medical therapy by advancing specialized leading-edge technology and addressing unmet medical needs, enabling patients to enjoy a better quality of life.

Pharmaceuticals

Our pharmaceuticals business is positioned as a specialized, HIM-centered operation, with the development of new world-class drugs being advanced to offer innovative and unique therapeutic solutions in the fields of orthopedics, critical care, and the central nervous system.

Medical Care

Our medical care business contributes to the advancement of medical treatment worldwide via continuous innovation in various fields, including medical devices that respond to unmet needs (such as chronic and acute renal diseases, neurologic diseases, and other intractable conditions), that improve the quality of blood transfusion products, and products that enable safe and efficient production of biopharmaceuticals and other medicines at the cutting edge of new drug developments.

Artificial kidneys

Artificial kidneys (dialysis and hemodialysis) for hemodialysis are born of Hebel Kasai’s core technology of low-expansion maintenance separators.

Planavac virus removal filters

The world’s first developed specifically for removing viruses during the manufacture of biopharmaceuticals such as monoclonal antibodies and plasmid vectors.

Acute Critical Care

Operating company: ZOLL Medical

ZOLL medical devices are used in hospitals around the world to save lives during cardiac arrest and in the emergency room.
Asahi Kasei R&D
Fostering innovation through diversity

Depending on the degree of novelty and the market growth potential, R&D in the Asahi Kasei Group is divided into medium- to long-term corporate R&D to create new businesses that span across different fields and R&D to enhance established businesses. To leverage the diversity of our operating configuration, external resources such as corporate venture capital (CVC) are proactively utilized in the creation of new businesses.

01 Basic concept for creating new businesses
Various core technologies & Marketing functions & Connections

1. Enhancing various core technologies
High-level experts operate in-depth and expand core technologies; promoting digital transformation by nurturing experts.

2. Dynamic marketing functions
Marketing & Innovation newly established to reinforce marketing across business units.

3. Promoting connections
Strengthening cooperation with other companies, government, academia, and research institutes as well as internally among sectors.

02 R&D expenditure

<table>
<thead>
<tr>
<th>Year</th>
<th>R&amp;D Expenses (¥ billion)</th>
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<tr>
<td>2014</td>
<td>76.5</td>
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<tr>
<td>2015</td>
<td>81.1</td>
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<td>2016</td>
<td>79.6</td>
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<td>2017</td>
<td>85.7</td>
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<tr>
<td>2018</td>
<td>90.1</td>
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Breakdown of R&D expenses:
- Corporate expenses: 16.9%
- Health Care: 24.3%
- Construction Materials: 1.0%
- Chemicals: 20.2%
- Electronics: 12.8%
- Others: 3.2%

Sustainable growth of corporate value
Sincerity, Challenge, Creativity

Contribution to sustainable society
Providing solutions to the world’s challenges

Asahi Kasei Sustainability
Contributing to life and living for people around the world

Sustainability for Asahi Kasei
Issues for the achievement of sustainable society are being discussed around the world. The Asahi Kasei Group launched “G for Tomorrow 2021” as a new strategic management initiative for the three-year period beginning with fiscal 2019, expressing our stance as “Care for People, Care for Earth” as we continuously contribute to the sustainable development of mankind and the earth. Asahi Kasei is focusing on two mutually reinforcing aspects of sustainability, “contributing to sustainable society” and “sustainable growth of corporate value,” as signified by the United Nations Sustainable Development Goals (SDGs).

Community fellowship

Raising interest in science among women
We hold an event in support of a government program to raise interest in careers in science and engineering among young women.

Consistency with the Environment
In cooperation with local communities in Japan’s Tohoku and Shikoku prefectures, we are working to preserve biodiversity through tree-planting and reforestation projects.

Corporate sports activities
Our suite team and distance running team have produced many Olympic athletes. The teams also actively participate in various community fellowship activities.
Asahi Kasei Network

Asahi Kasei Worldwide

The Asahi Kasei Group operating bases are located at strategic sites around the world, to facilitate the efficient supply of products and services in each of the major markets.

North America
Canada
- ZOLL Medical Canada Inc.

United States
- Asahi Kasei America, Inc.
- Asahi Kasei Biologics US Inc.
- Crystal Biologics, Inc.
- KAW Semiconductor, Inc.
- Asahi Kasei Materials America Inc.
- Asahi Kasei Pharmaceuticals North America Inc.
- Crispell LLC (Theratope and Condura)
- Duracell LLC (Durable, Evident, and Dovendisc)
- Polyphore International LP
- Suga Adhesives America Inc.
- Suga – Detroit
- Asahi Kasei Biopharmaceuticals America, Inc.
- Asahi Kasei Medical Americas Inc.
- Asahi Kasei Pharma Americas Corp.
- ZOLL Medical Corporation

South America
Brazil
- Duraflow Separaciones de Batería Ltda.
- Suga – Brazil

Europe
Belgium
- Asahi Kasei Biopharmaceutical Europe SA/WV
- Asahi Kasei Biopharmaceutical Europe SA/WV

France
- Durect SAS
- ZOLL Medical France SNC

Germany
- Asahi Kasei Europe GmbH
- Asahi Kasei Microdevices Europe SAS
- Asahi Kasei Spindles Europa GmbH
- Duraflow GmbH, Medical Devices

Italy
- Asahi Kasei Fiber India SRL
- Poliphore Italia SRL
- ZOLL Medical Italia SRL

Netherlands
- ZOLL International Holding B.V.

Poland
- Suga – Poland

Sweden
- Suga AB

United Kingdom
- Asahi Kasei Fibre Products (UK) Ltd.
- Suga – UK
- ZOLL Medical UK Ltd.

Asia
Korea
- Asahi Kasei Chemicals Korea Co., Ltd.
- Asahi Kasei Engineering Korea Inc.
- Asahi Kasei Microdevices Korea Corp.
- Polyphore Korea, Ltd.
- Suga – Korea

Singapore
- Asahi Kasei Pharmaceutical Pte. Ltd.
- Asahi Kasei Synthetic Rubber Singapore Pte. Ltd.
- Polyphore Biomedical Pte. Ltd.
- ZOLL Medical Singapore Pte. Ltd.

China
Beijing
- Asahi Kasei Corp., Beijing Office
- Asahi Kasei Pharma (Beijing) Co., Ltd.
- ZOLL Medical China Co., Ltd.

South
- Asahi Kasei Medical Co., Ltd.
- Asahi Kasei Microdevices Co., Ltd.
- Asahi Kasei Microdevices Co., Ltd.
- Asahi Kasei Spindles Co., Ltd.

India
- Asahi Kasei India Pvt. Ltd.
- Duraflow Battery Separation India Pvt. Ltd. (Goa, Baddi, and Bangalore)
Asahi Kasei Network

New value is created at various locations in Japan

We are advancing the development of our business together with local communities in many locations throughout Japan, including Nobeoka, the birthplace of our operations, Fuji, our core base for R&D, and Mizushima, the center of our petrochemical operations.

01 R&D and production sites in Japan

- Material
- Homes
- Health Care
- Administrative & Other

02 Main subsidiaries and affiliates in Japan

- Asahi Kasei Advance Corp.
- Asahi Kasei Amics Co., Ltd.
- Asahi Kasei Engineering Corp.
- Asahi Research Center Co., Ltd.
- Asahi Kasei Color Tech Co., Ltd.
- Asahi Kasei Microelectronics Corp.
- Asahi Kasei Telecommunications Co., Ltd.
- Asahi Kasei Eko Corp.
- Asahi Kasei Electronic Co., Ltd.
- Asahi-Kasei Kogyo Co., Ltd.
- Asahi Kasei Kure Chemicals Co., Ltd.
- Asahi Kasei Kure Products Corp.
- Asahi Kasei Metals Ltd.
- Asahi Kasei Microsystems Co., Ltd.
- Asahi Kasei Mitsubishi Ethylene Corp.
- Asahi Kasei Pac Corp.
- Asahi-Kasei Technology Co., Ltd.
- Asahi-K Supreme Co., Ltd.
- Asahi Specialty Co., Ltd.
- Asahi-Tip Co., Ltd.
- Asahi-Tip Spec Spot Products Co., Ltd.
- Japan Chemicar Co., Ltd.
- PT Japan Corp.
- Kuki Co., Ltd.
- Yuki Kasei Chemical Co., Ltd.
- Yuki Kasei Silicone Co., Ltd.
- Fujikura K.K.
- Saga – Japan
- Asahi Kasei Homes Corp.
- Asahi Kasei Distribution Materials Corp.
- Asahi Kasei Ichikawa Corp.
- Asahi Kasei Foundation Systems Corp.
- Asahi Kasei Home Construction Corp.
- Asahi Kasei Jaya Co., Ltd.
- Asahi Kasei Kobé Financial Corp.
- Asahi Kasei Realty & Residential Co., Ltd.
- Asahi Kasei Reform Co., Ltd.
- AVEST Co., Ltd.
- Asahi Kasei Lifeline Corp.
- Asahi Kasei Pharma Corp.
- Asahi Kasei Medical Co., Ltd.
- Asahi Kasei ZOIC Medical Corp.
- Med-Tech Inc.

Directors

- President & Representative Director
- President & Executive Officer
- Representative Director
- Executive Officer
- Vice-President/Executive Officer
- Vice-President/Executive Officer
- Director
- Director
- Director
- Executive Officer
- Corporate Auditor
- Corporate Auditor
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- Corporate Auditor
- Corporate Auditor
- Corporate Auditor

Corporate Configuration

Cobbled on the operating holding company Asahi Kasei Corp., and six core operating companies, the Asahi Kasei Group does business in the three sections of Material, Homes, and Health Care.

Material

Homes

Health Care

Financial Highlights

Fiscal year beginning April 1

- Net sales
- Operating income
- Ordinary income
- Net income attributable to owners of the parent

Results by sector

Health Care

Material

Homes

Operating income

01 "Others" category is excluded in the financial highlights."