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 Hebat-Haus™ unit
homes and Saran Wrap™ cling film, and electronic parts used in computers and smartphones, to
performance resins for automotive applications, and pharmaceuticals and AEDs that support people’s
lives, are used in various ways all around us.

Office

- Dishwashing detergent
- Filtration at waterworks plant
- Building/forment
- Food preservation, cooking
- Printing of packages
- Telephone wiring
- Plastic shopping bags
- Upholstery
- Fabric for sofas

Living room

- Video game consoles
- Dolby
- Plastic film

Hospital

- Home electronics
- Spacemaker
- Construction materials
- Food storage bags
- Disposables
- Antimicrobial
- Adhesives

Bathroom

- Airbags
- Diapers
- Bottles
- Food storage bags
- Medical devices
- Personal care products
- Prescription drugs

Bedroom

- Smartphones
- Cars
- Electronic parts
- Batteries
- Personal care products
- Facial care

Outdoors

- Food storage bags
- Diapers
- Medical devices
- Personal care products
- Prescription drugs
- Diagnostic image
- Drug manufacturing
- Skin care
- Shampoo
- Interceptor
- Facial cleanser
- Hair care products
- Pharmaceutical raw 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.

**Group Mission**
We, the Asahi Kasei Group, contribute to life and living for people around the world.

This is the Asahi Kasei Group's unchanging reason for being. What we have chosen to strive for, through the needs of society change throughout the ages, is what is in our nature, deriving from a sincere regard for the people of the world.

**Group Values**

Sincerity—Being sincere with everyone.

Challenge—Boldly taking challenges, continuously seeking change.

Creativity—Creating new value through unity and synergy.

**Origins**

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

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

1931
Production of Benetton™ (nylon fiber) begins

1939
Synthetic resin operations begin with start of production of Cynthian™ acrylic fiber

1957
Synthetic resin operations begin with start of production of Cynthian™ acrylic fiber

1960
Fabrication plastic product operations begin with introduction of Saran Wrap™ cling film to the Japanese market

1968
Petroleum manufacturing operations begin with establishment of Sanyo Petrochemical Co., Ltd.

1972
Starting operations begin with launch of Infineon™ unit (Infineon Technologies AG)

1976
Pharmaceutical product operations begin with regulatory approval for Synfas™ orthocavitational agent

1979
Synthetic resin operations begin with start of production of Cynthian™ acrylic fiber

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Synthetic resin operations begin with start of production of Cynthian™ acrylic fiber

1982
Synthetic resin operations begin with start of production of Cynthian™ acrylic fiber

1986
Synthetic resin operations begin with start of production of Cynthian™ acrylic fiber

1990
Laid-off Infineon™ Infineon™ battery separator

1992
Pharmaceutical and medical instruments manufacturing Co., Ltd. established with Asahi Chemical

1999
Foods operations transferred to the Japan Tobacco Inc.

2001
Name changed to Asahi Kasei Corp.

2002
Machine and automated systems operations transferred to Asahi Kasei.

2003
Automated and robotic systems operations transferred to Asahi Kasei.

2016
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**Growth as a diversified chemical manufacturer**

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**Branching**

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**Growing globalization**

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**Taking on new challenges**

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**Into new fields**

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Basic Materials

Operating company: Asahi Kasei

Having products such as caustic soda, chlorine, acrylonitrile, 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.

Major products:
- Petrochemicals: AN, MMA, styrene, polyethylene

Performance Products

Operating company: Asahi Kasei

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

Major products:
- Bemberg™ cupro fiber
- Nexia™ premium stretch fiber
- Nonsanova™ ELSA-X spunbond, Lamius™ artificial suede, Berlon™ continuous filament cellulose nonwoven, Preola™ heat-sensitive nonwoven, Duraflex™/Asahi separation fibers
- Leona™ nylon 66 filament
- Nexia™ PA6, Nexia™ POM, Zytel™ MPPE, Zytel™ AS, styreneacrylonitrile, synthetic rubber, elastomer
- Saran Wrap™ cling film, Zipsafe™ storage bags

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.

Sunflex™ ultra-high molecular weight polyethylene

Developed with original technology, this polyethylene powder is used to make linear barrier separation films and high-strength films.

Nonwoven fabric

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

Leona™ nylon 66 filament

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

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.

Performance resins

Performance resins including polyamide 66, polysulfone, modified PTFE, AIBS, and SAN are widely used in various automotive and home electronics applications.

Saran Wrap™ cling film

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

Specialty Solutions

Operating company: Asahi Kasei

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

Suntort™ photosensitive dry film

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

Ion-exchange membrane systems

Our energy-saving, environmentally friendly membranes and systems for cationic electrolysis provide a total solution, capturing the world’s leading market share.

Hilpre™ and Celgard™ Li-ion battery separator

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

Daramic™ lead-acid battery separator

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

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 UV-C LEDs for sterilization of water and air.

Major products:
- Semiconductors: Audio/Video LSIs, Industrial/machinery LSIs, automotive LSIs, electronic compasses, high-frequency LSIs, power management LSIs
- Magnetic sensors: Hall-elements, Hallics, electronic current sensors, rotation angle sensors, infrared sensor LSI

LSIs for audio & voice

With a high market share for over 30 years in the audio market, we continue to evolve a wide range of technologies linked to sound, and provide LSIs for various applications including automobiles and smartphones.

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.

Operating company: Asahi Kasei Homes

Hebel Haus™
Our "Long Life Homes" products feature exceptional disaster resistance, stability, and adaptability to lifestyle changes, providing safety, security, and comfort.

Hebel Maison™
Built with high-performance materials and components, featuring innovative and high-function design, and backed by long-term services, our apartment buildings enable superior social and urban value over the long term, yielding a truly rich living environment.

Atlas™ condominiums
These high-rise condominiums in good locations enable residents to enjoy an urban lifestyle with peace and confidence.

Hebel Rooms™
We have a network of rental apartments featuring fire resistance, earthquake resistance, and heat insulation, that meet various lifestyle needs.

Construction Materials

Our construction materials business includes solution-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 that meet emerging needs. We continually strive for improvements and innovations to create new value for the future of high-quality space.

Operating company: Asahi Kasei Construction Materials

Acute Critical Care

Our acute critical care business is based on world-class resuscitation technology. Through our ZOLL™ family of products, we offer a comprehensive product portfolio that includes professional defibrillators and automated external defibrillators (AEDs), as well as a remarkable defibrillator, portable ventilator, 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.

Operating company: ZOLL Medical

Health Care

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

Operating company: Asahi Kasei Pharma

Pharmaceuticals

Our pharmaceuticals business is positioned as a specialized, R&D-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/Intensive care, urology, the immune system, and the central nervous system.

Operating company: Asahi Kasei Medical

Medical Care

Our medical care business contributes to the advancement of medication treatment worldwide via continuous innovation in various fields, including medical device systems that respond to unmet needs (such as chronic and acute renal diseases, neurologic diseases, and other intractable conditions), those 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 development.

Operating company: Asahi Kasei Medical

Acute Critical Care

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Operating company: ZOLL Medical

Pharmaceuticals

Our pharmaceuticals business is positioned as a specialized, R&D-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/Intensive care, urology, the immune system, and the central nervous system.

Operating company: Asahi Kasei Pharma

Major products

Prescription drugs: Terbina, Pertusil, Eczelux, Recomendel, Nisxil, Brotalin, Kozanes
Diagnostic reagents: Lactation, Millipore, protein antigen, etc.

Medical Care

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Operating company: Asahi Kasei Medical

Major products

Hemodialysis: Follow-on dialyzers and homologation
Therapeutic aphereses: Leukocytaphereses and plasmapheresis devices
Bioprocess products: Novasept™, Tiraflow², etc.
Translation products: Desipramine hydrochloride

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Operating company: ZOLL Medical

Major products

Defibrillation: A Series X, X Series, and other defibrillators, AED Plus™ and AED Pro™ automated external defibrillators
Wearable defibrillator: Lifelin™
Automated CPR: AutoPulse™
Temperature management system: Thermogard XP™
Data solution: RescuNet™ software
AED Plus™
Featuring real-time audio and visual feedback for appropriate chest compressions.
Lif Vest™
Provides immediate protection for patients at risk of sudden cardiac arrest.
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

- Enhancing various core technologies
High-end experts support to develop and expand core technologies; promoting digital transformation by nurturing experts

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

- Promoting connections
Strengthening cooperation with other companies, government, academia, and research institutions as well as internally among sectors

02 R&D expenditure

<table>
<thead>
<tr>
<th>Year</th>
<th>Annual R&amp;D expenses (¥ billion)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>75.5</td>
</tr>
<tr>
<td>2015</td>
<td>81.1</td>
</tr>
<tr>
<td>2016</td>
<td>79.6</td>
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<tr>
<td>2017</td>
<td>85.7</td>
</tr>
<tr>
<td>2018</td>
<td>90.1</td>
</tr>
</tbody>
</table>

Breakdown of R&D expenses
- Corporate expenses: 69.5% (16.9%)
- Health Care: 24.3%
- Construction Materials: 1.0%
- Chemicals: 20.2%
- Electronics: 12.8%
- Other: 3.2%

Sustainability for Asahi Kasei
Issues for the achievement of sustainable society are being discussed around the world. The Asahi Kasei Group launched “5G+ 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).

Contributing to sustainable society
- Providing solutions to the world’s challenges

Sustainable growth of corporate value
- Return to stakeholders
- High profitability

Community fellowship
- Raising interest in science among women
- Tree-planting and reforestation activities
- Promoting of culture, art, and sports

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

In cooperation with local communities in Japan’s Kagoshima and Shizuoka prefectures, we are working to preserve biodiversity through tree-planting and reforestation projects.

Our U.S. and distance running teams 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.

South America

Brazil
- Duracell Separadores de Baterias Ltda.
- Sage - Brazil

Mexico
- Asahi Kasei Plasticos Mexico S.A. de C.V.
- Sage - Mexico

North America

Canada
- ZOLL Medical Canada Inc.

United States
- Asahi Kasei America, Inc.
- Asahi Kasei Biologics US, Inc.
- Crystal DB, Inc.
- KAI Semiconductor, Inc.
- Asahi Kasei Plastics Americas Inc.
- Asahi Kasei Plastics North America, Inc.
- Graphtex LLC (Graphite and Carbon)
- Damaric, LLC (Graphite, Graphene, and Diamond)
- Polypropylene International LP
- Sage Automotive Interiors Inc.
- Sage - Detroit
- Asahi Kasei Biopolymers America, Inc.
- Asahi Kasei Medical Americas Inc.
- Asahi Kasei Pharma Americas Corp.
- ZOLL Medical Corporation
- ZOLL - Portland
- ZOLL - Pittsburgh
- ZOLL - San Jose
- ZOLL - Minneapolis
- ZOLL - Puerto Rico
- ZOLL Operating Partners LLC

Europe

Belgium
- Asahi Kasei Polymers (Europe) S.A./N.V.
- Asahi Kasei Biopolymers Europe S.A./N.V.

France
- Damaric SAS
- ZOLL Medical France SNC

Germany
- Asahi Kasei Europe GmbH
- Asahi Kasei Microelectronics Europe SAS
- Asahi Kasei Spanovis Europe GmbH
- Damaric, LLC - Southeast
- Asahi Kasei Biopolymers Deutschland GmbH
- Asahi Kasei Medical Europe GmbH
- ZOLL Medical Deutschland GmbH

Italy
- Asahi Kasei Fiber Ribs SRL
- Apena SRL
- Weico SRL
- ZOLL Medical Italia SRL

Netherlands
- ZOLL International Holding B.V.

Poland
- Sage - Poland

Sweden
- Sensea AB

United Kingdom
- Asahi Kasei Polymers (UK) Ltd.
- Sage - UK
- ZOLL Medical UK, Ltd.

Asia

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

Taiwan
- Damaric Taiwan PC Separator Co., Ltd.
- Sage - Taiwan

Shanghai
- Asahi Kasei (China) Co., Ltd.
- Asahi Kasei Advansto (Shanghai) Co., Ltd.
- Asahi Kasei Microdevices (Shanghai) Co., Ltd.
- Asahi Kasei Plastics (Shanghai) Co., Ltd.
- Polypropylene (Shanghai) Biopolymers Products Co., Ltd.
- ZOLL Medical (Shanghai) Co., Ltd.

Korea
- Asahi Kasei Chemicals Korea Co., Ltd.
- Asahi Kasei Materials Korea Inc.
- Asahi Kasei Microdevices Korea Corp.
- Polypropylene Korea, Ltd.

Germany
- Asahi Kasei Plastics Europe GmbH
- Asahi Kasei Microelectronics Europe SAS
- Asahi Kasei Spanovis Europe GmbH
- Damaric, LLC - Southeast
- Asahi Kasei Biopolymers Deutschland GmbH
- Asahi Kasei Medical Europe GmbH
- ZOLL Medical Deutschland GmbH

Rastech
- Asahi Kasei Performance Chemicals Corp.
- Zhangjiagang
- Asahi Kasei POM (Zhangjiagang) Co., Ltd.

Shanghai
- Asahi Kasei Electronic Materials (Shanghai) Co., Ltd.

South
- Asahi Kasei Electronic Materials (Shanghai) Co., Ltd.
- Asahi Kasei (Shanghai) Photonics Company, Ltd.
- Suzhou
- Asahi Kasei Medical (Shanghai) Co., Ltd.

Japan
- Asahi Kasei Electronic Materials (Nagoya) Ltd.
- Asahi Kasei (Nagoya) Photonics Company, Ltd.
- Aichi
- Asahi Kasei Medical (Aichi) Co., Ltd.

Xiangyang
- Damaric Xiangyang Battery Separator Co., Ltd.
- Guangzhou
- Asahi Kasei Plastics (Guangzhou) Co., Ltd.

Shenzhen
- Asahi Kasei China Sales and Technical Service

Hong Kong
- Asahi Kasei Fibers (HK) Ltd.
- Asahi Kasei Medical (Hong Kong) Co., Ltd.

Taiwan
- Asahi Kasei (TDK) Taiwan Corp.
- Asahi Kasei Microdevices Taiwan Corp.
- Asahi Kasei Ultra Electronics Taiwan Corp.
- Asahi Kasei Electronic Materials Taiwan Co., Ltd.
- Asahi Kasei medical Inc.
- Forsee Asahi Stamp Co., Ltd.
- Asahi Kasei Urban Development Taiwan Corp.

Vietnam
- Asahi Kasei Plastics Vietnam Co., Ltd.
- Asahi Kasei Adhesive Vietnam Co., Ltd.
- Asahi Kasei Jyuku Vietnam Corp.

Thailand
- Asahi Kasei Asia Pacific Co., Ltd.
- Asahi Kasei Adhesive Thailand Co., Ltd.
- Anhesori Plastics (Thailand) Co., Ltd.
- Asahi Kasei Speedon (Thailand) Co., Ltd.
- Asahi Kasei Electronic Materials (Thailand) Ltd.
- PT Asahi Chemical Co., Ltd.
- Thai Asahi Kasei Spandex Co., Ltd.

Singapore
- Asahi Kasei Plastics Singapore Pte. Ltd.
- Asahi Kasei Synthetic Rubber Singapore Pte. Ltd.
- Polyphosphoric Acid Singapore Pte. Ltd.
- ZOLL Medical Singapore Pte. Ltd.

India
- Asahi Kasei India Pvt. Ltd.
- Damaric Battery Separator India Pvt. Ltd.
- Gujarat, Buddh, 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

02 Main subsidiaries and affiliates in Japan

Asahi Kasei Advance Corp.,
Asahi Kasei Americas Co., Ltd.
Asahi Kasei Automotive Corp.,
Asahi Kasei Combined Co., Ltd.
Asahi Kasei Color Tech Co., Ltd.
Asahi Kasei Construction Materials Co., Ltd.
Asahi Kasei Electronics Co., Ltd.
Asahi Kasei Elcon Inc., Ltd.
Asahi Kasei Flexicell Co., Ltd.
Asahi Kasei HealthCare Co., Ltd.
Asahi Kasei Microelectronics Co., Ltd.
Asahi Kasei Mitsubishi Chemical Ethylene Corp.,
Asahi Kasei Power Corp.,
Asahi Kasei Technology Co., Ltd.
Asahi Kasei Technology Co., Ltd.
Asahi SED Co., Ltd.
Asahiya Sunlight Spot Products Co., Ltd.
Asahiya Sunlight Spot Products Co., Ltd.
Prymak Corp.
Sakai Corp.
Saitama

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Corporate Profile

Asahi Kasei Corporation

President & Representative Director:
Yuki Kobori

Director, President:
Shigeru Tanigawa

Director, Vice-President:
Yusuke Ikeda

Director, Executive Officer:
Hiroshi Nishida

Director, Executive Officer:
Shigeru Sakamoto

Corporate Auditor:
Masaru Nakao

Corporate Auditor:
Takuya Ito

Corporate Auditor:
Hiroko Kimura

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Directors

As of June 30, 2019

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Corporate configuration

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

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Financial highlights

Fiscal year beginning April 1

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Results by sector

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1 Excluding "Others" category and "corporate expenses and eliminations."

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