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 pharmaceuticals and AEDs that support people’s lives, are used in various ways all around us.
This is the Asahi Kasei Group’s unchanging reason for being. What we never cease to strive for, though the needs of society change throughout the ages. It is in our very nature, deriving from a sincere regard for the people of the world.

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

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

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Group Values

Sincerity—Being sincere with everyone.

Challenge—Boldly taking challenges, continuously seeking change.

Creativity—Creating new value through unity and synergy.

Asahi Kasei Mitsubishi Chemical Ethylene Corp.

starts shared operation of naphtha cracker facilities

2013

Singapore plant for EDC for fuel-efficient tires begins operation

2016

Transformation to an operating holding company configuration

Asahi Kasei Europe GmbH established

Industrialization

Post-war recovery and period of high economic growth

Stable economic growth and economic bubble

Economic transformation

Material • Homes • Health Care • Administrative & Other

1922

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

1931

Production of Rayon™ cupra fiber begins

1959

Synthetic fiber operations begin with start of production of Cashmilon™ acrylic staple fiber

1968

Polyethylene operations begin with establishment of Asahi Polyethylene Co., Ltd.

1974

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

1976

Pharmaceutical operations begin with regulatory approval for Satratoxin™ and anticancer agent

2000

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

2013

Singapore plant for EDC for fuel-efficient tires begins operation

2016

Transformation to an operating holding company configuration

Asahi Kasei Europe GmbH established

1923

Japan's first industrial production of ammonia by chemical synthesis

1931

Nippon Ammonia Fiber Co., Ltd., established

1933

Nippon Ammonia Fiber acquire Nippon Benbow Fiber Co., Ltd.

1943

Asahi Benbow Fiber acquires Japan Nitrogenous Chemicals Co., Ltd.

1946

Name changed to Asahi Chemical Industry Co., Ltd.

1949

Shares listed in Tokyo, Osaka, and Nagoya

1952

Establishment of AsahiKasei Co., Ltd., as a joint venture with the New Chemical Company

1960

New York office opened

1962

Production of styrene-butadiene rubber (SBR) begins

1966

Production of styrene-butadiene rubber (SBR) begins

1967

Construction materials operations begin with start of production of Naomi™ cement-based concrete [ABC] panels

1972

Production of Asahi™ ethylene-polyethylene terephthalate begins

1976

Textile operations restructured with establishment of Asahi Kasei Textile Co., Ltd.

1980

Wax element production begins

1981

Synthetic resin operations restructured with merger of Asahi-Shim with Asahi Chemical

1988

Beijing office opened

2012

Entry into critical-care operations with acquisition of ZOLL Medical Corporation of the US

2015

Battery separator operations reinforced with acquisition of Philgaps International Inc. of the US

1990

Launch of Naomi™ ethylene-butylenes rubber separator

1992

Pharmaceuticals and cosmetics maker Toyō Kasei Co., Ltd., merges with Asahi Chemical

2001

Name changed to Asahi Kasei Corp.

2003

Transformation to an operating holding company configuration with Asahi Kasei Corp., an operating company and 7 new operating companies

2016

Asahi Kasei Mitsubishi Chemical Epoxy Corp.

starts shared operation of epoxies cracker facilities
Asahi Kasei is working to provide solutions to society in the area of clean environmental energy with our alkaline water electrolysis system to enable the production of CO₂-free “green hydrogen” using power generated from renewable energy sources such as wind and solar. The highly efficient system offers scalability up to the world-leading scale of 10 MW in a single unit, allowing a large amount of hydrogen production. With technological development supported by Japan’s New Energy and Industrial Technology Development Organization (NEDO), Asahi Kasei successfully completed a large-scale demonstration of the system in Yokohama, Kanagawa, Japan, and started demonstration projects for green hydrogen in Herten, Germany, and Soma, Fukushima, Japan, in April 2018.

Alkaline water electrolysis system

Bemberg™ cupro fiber

Featuring a smooth feel, attractive luster, and moisture absorption/recovery, Bemberg™ from cotton fiber is used in applications ranging from high-quality socks to functional innerwear and outer garments.

Rolica™ premium stretch fiber

Featuring stretch and recovery, Rolica™ is widely used in products such as women’s outerwear and sportswear. The global supply network includes 6 manufacturing plants.

Nonwoven fabric

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

Leona™ nylon 66 filament

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

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Our construction materials business includes many creative, advanced, high-value-added products such as Hebel™ autoclaved aerated concrete (AAC) panels, Neoma Foam™ high-performance foam insulation panels, foundation systems, and steel-frame structural components that meet emerging needs for solution-oriented products. We continuously strive for improvements and innovations to provide customers with greater safety, peace of mind, and comfort.

## 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.

### Prescription drugs
- Teribone™, Reclast™, Eliotro™, Recomodulin™, Flivas™, Bredinin™, Kevzara™
- Diagnostic reagents: Lecto™ GA-1, glucagon antigen kit Riboderm™ Myoplasma

### Recomodulin™ anticoagulant
The world’s first monoclonal antigen produced through genetic engineering, it is used to treat disseminated intravascular coagulation.

### Hemodialysis
- Dialyzer filters
- Therapeutic sphenooids: Leukocytophrenes and leuphenooids devices
- Bronchial products: Phores™ plus removal filters
- Transfusion products: Epoctec™ bofurokudide infusion filters

### Artificial kidneys
Artificial kidneys (dialysis) are designed by Asahi Kasei’s care technology of blood flow/membrane separation

### Planova® virus removal filters
The world’s first filter developed specifically for removing viruses during the manufacture of biopharmaceuticals such as biopharmaceuticals and plasm derivatives.

### Acute Critical Care

Our acute critical care business is based on world-leading 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 wearable defibrillator, portable ventilators, a highly efficient respiratory system for managing the core temperature of critically ill patients, and data management systems for care providers. We continue to expand operations in the field of acute critical care to enable better outcomes for patients around the world.

### AED Plus™
Featuring real-time audio and visual feedback for appropriate chest compressions.

### Lifesaver™
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, R&D programs are seamlessly coordinated within the Asahi Kasei Group, while external resources such as corporate venture capital (CVC) are proactively utilized in the creation of new businesses.

01 R&D with 3-axis perspective

1. Foster and acquire core technology

Various technologies are fostered and applied to each R&D program, while new technology seeds are proactively acquired.

2. Utilize market channels

The business platforms of our diverse operations are further extended and fully utilized.

3. Heighten added value

Higher added value for greater profitability is created by adopting new business models focused on solutions and services.

02 R&D expenditure

<table>
<thead>
<tr>
<th>Year</th>
<th>(¥ billions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>71.1</td>
</tr>
<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>
</tr>
<tr>
<td>2017</td>
<td>85.7</td>
</tr>
</tbody>
</table>

Breakdown of R&D expenses

- Corporate expenses: 18.1%
- Critical Care: 15.1%
- Health Care: 25.0%
- Construction Materials: 1.2%
- Fibers: 3.4%
- Chemicals: 20.8%
- Electronics: 13.3%
- Homes: 3.2%

CSR in Action

Executing medium-term management initiatives, business operations

CSR Fundamentals

- Compliance
- Responsible Care
- Corporate Citizenship
- Respect for Employee Individuality

Contributing to life and living for people around the world

We believe that CSR is achieved by raising corporate value for our various stakeholders through our business operations in accordance with our Group Mission of contributing to life and living for people around the world.

In addition, based on a clear understanding of the effects of our operations on the global environment and local communities, our efforts and actions related to CSR are focused on four CSR Fundamentals: Compliance, Responsible Care, Corporate Citizenship, and Respect for Employee Individuality.

We aim to earn the ongoing trust of people throughout the world by compliance with law, social norms, and internal corporate regulations, by respect for local culture and customs, and for human rights, and by conduct based on high ethical values.
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.

- Material
- Homes
- Health Care
- Administrative & Other

1. North America
   - Canada
     - 2011 Medical Canada Inc.
     - United States
       - Asahi Kasei America, Inc.
       - Asahi Kasei Holdings US, Inc.
       - Crystal II, Inc.
       - ASK Nanoelectronics, Inc.
       - Asahi Kasei Plastics Americas Inc.
       - Asahi Kasei Plastics North America, Inc.
       - Calgary, LLC
       - Calgary – Cordova
       - Darien, LLC
       - Darien – Crown
       - Dynaforce International, LP
       - Sun Phastech Inc.
       - Asahi Kasei Bioimporters America, Inc.
       - Asahi Kasei Medical America Inc.
       - Asahi Kasei Pharma America Corp.
       - 2011 Medical Corporation
       - ZOLL – Brammed
       - ZOLL – Pittsburgh
       - ZOLL – San Jose

2. Central and South America
   - Brazil
     - Darien Separadores de Balasias Ltda.
   - Mexico
     - Asahi Kasei Plastics Mexico S.A. de C.V.

3. Europe
   - Belgium
     - Asahi Photoproducts (Europe) S.A/NV
     - Asahi Kasei Bioprogress Europe S/NV
   - France
     - Darien SAS
     - ZOLL Medical France SNC
   - Germany
     - Asahi Kasei Europe GmbH
     - Asahi Kasei Microdevices Europe SAS
     - Asahi Kasei Spandex Europe GmbH
     - Durasyn – Norderstedt
     - Asahi Kasei Bioprogress Deutschland GmbH
     - Asahi Kasei Medical Europe GmbH
     - ZOLL Medical Deutschland GmbH
   - Italy
     - Asahi Kasei Fibers Italia SRL
     - ZOLL Medical Italia SRL
   - Netherlands
     - ZOLL International Holding B.V.
   - United Kingdom
     - Asahi Photoproducts (UK) Ltd.
     - ZOLL Medical U.K. Ltd.
   - Sweden
     - Senseair AB

4. Asia
   - Beijing
     - Asahi Kasei Corp., Beijing Office
     - Asahi Kasei Pharma (Beijing) Co., Ltd.
   - Changshu
     - Asahi Kasei Electronics Materials (Changshu) Co., Ltd.
   - Guangzhou
     - Asahi Kasei Plastics (Guangzhou) Co., Ltd.
     - Hangzhou
     - Asahi Kasei Microsa (Hangzhou) Co., Ltd.
     - Hangzhou Asahi Kasei Spandex Co., Ltd.
     - Hangzhou Asahi Kasei Textile Co., Ltd.
     - Asahi Kasei Medical (Hangzhou) Co., Ltd.
   - Hong Kong
     - Asahi Kasei Fibers (H.K.) Ltd.
     - Asahi Kasei Plastics (Hong Kong) Co., Ltd.
   - Nantong
     - Asahi Kasei Performance Chemicals Corp.
   - Shanghai
     - Asahi Kasei (China) Co., Ltd.
     - Asahi Kasei Advance (Shanghai) Co., Ltd.
     - Asahi Kasei Microbelows (Shanghai) Co., Ltd.
     - Asahi Kasei Plastics (Shanghai) Co., Ltd.
     - Polypure (Shanghai) Membrane Products Co., Ltd.

5. Oceania
   - Australia
     - 2011 Medical Australia Pty Ltd.
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 Amidas Co., Ltd.
- Asahi Kasei Engineering Corp.
- Asahi Kasei Research Center Co., Ltd.
- Asahi Kasei Color Tech Co., Ltd.
- Asahi Kasei Microdevices Corp.
- Asahi Kasei Electronics Co., Ltd.
- Asahi Kasei En products Corp.
- Asahi Kasei Metals Ltd.
- Asahi Kasei Microsystems Co., Ltd.

- Asahi Kasei Mitsubishi Chemical Etykene Corp.
- Asahi Kasei Pac Corp.
- Asahi Kasei Technopolis Co., Ltd.
- Asahi Kasei Chemicals Co., Ltd.
- Asahi SKB Co., Ltd.
- Dupont-Asahi Flash Spun Products Co., Ltd.
- Japan Elastomer Co., Ltd.
- PS Japan Corp.

- Suzuki Inc.
- Wacker Asahi Kasei Silicone Co., Ltd.
- Asahi Kasei Metals Corp.
- Asahi Kasei Construction Materials Corp.

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.

Corporate Profile

Asahi Kasei Corporation

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

Asahi Kasei Homes Corp.

- President, Executive Officer
- Director, Corporate Director
- Corporate Auditor

Asahi Kasei Construction Materials Corp.

- President, Executive Officer
- Corporate Auditor

ZOLL Medical Corporation

- President, Executive Officer
- Corporate Auditor

Asahi Kasei Pharma Corp.

- President, Executive Officer
- Corporate Auditor

Financial highlights

Fiscal year beginning April 1

<table>
<thead>
<tr>
<th>Material</th>
<th>2019</th>
<th>2018</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net sales</td>
<td>¥1,883.0</td>
<td>¥1,986.8</td>
<td>¥2,042.2</td>
</tr>
<tr>
<td>Operating income</td>
<td>¥159.2</td>
<td>¥115.0</td>
<td>¥79.0</td>
</tr>
<tr>
<td>Net income (after income taxes)</td>
<td>¥127.2</td>
<td>¥92.3</td>
<td>¥54.1</td>
</tr>
<tr>
<td>Free cash flow</td>
<td>¥144.0</td>
<td>¥97.1</td>
<td>¥78.0</td>
</tr>
<tr>
<td>Total assets</td>
<td>¥2,254.5</td>
<td>¥2,042.2</td>
<td>¥1,986.8</td>
</tr>
</tbody>
</table>

For share information (¥)

- Net income: 72.4 ¥
- Net balance (after income taxes): 469.7 ¥

Key indicators

- Operating margin: 7.6%
- Total assets: 127.2 ¥
- Total liabilities: 127.2 ¥

Note: On April 1, 2016, Asahi Kasei Corp. became an operating holding company through the absorption of three of its core operating companies, Asahi Kasei Chemicals Corp., Asahi Kasei Fibers Corp., and Asahi Kasei E-materials Corp.