

# Sustainability Briefing

Hideki Kobori President Asahi Kasei Corp.

December 1, 2020















# **Basic Sustainability Concept**



#### **Focusing resources on sustainability**



## **Solutions to social issues**



# Main contributions of business

	Material Flexible allocation of management resources on priority fields			Homes	Health Care
				Reinforcing and extending value chain management	Further accelerating transformation to a global health care enterprise
	Environment & Energy	Mobility	Life Material	Home & Living	Health Care
Care for <b>People</b>		<ul> <li>Safety/security</li> <li>Comfortable space</li> </ul>	<ul> <li>Comfort/ convenience</li> <li>Health</li> </ul>	<ul><li>Safety/security</li><li>Comfort/health</li></ul>	<ul> <li>Treatment</li> <li>Safety/security</li> </ul>
Care for Earth	<ul> <li>Clean energy</li> <li>Energy conservation/ environmental improvement</li> <li>Decarbonized society</li> </ul>	<ul><li>Fuel economy</li><li>EV/HEV</li></ul>	<ul> <li>Reducing food loss/environmental burden</li> </ul>	<ul> <li>Environment</li> </ul>	

### Framework for Sustainability



(as of December 1, 2020)

# Care for **People**

# Care for **Earth**



# Active life

in the new normal

Challenges posed by climate change and COVID-19

# Carbon neutral sustainable world

# **Opportunities for Asahi Kasei toward 2050**

# Care for **People**

# Care for **Earth**



10

# Care for **Earth**

Carbon neutral sustainable world

- Business contribution to society
- Actions at Asahi Kasei



## **Concept for a carbon neutral and sustainable world**





## **Carbon neutral sustainable world**

# Business contribution to society

• Actions at Asahi Kasei



#### **Current technologies/businesses**

**Proactive development of businesses leveraging LCA\*** 

#### **Product life cycle**



#### **Environmental contribution product examples**

#### Residential

- Hebel Haus
- CO<sub>2</sub> sensors

#### **Urban infrastructure**

• Elastomer for asphalt modification

#### Automotive

- LIB separators
- Lightweighting resin
- Synthetic rubber for fuel-efficient tires

#### Manufacturing process

- Ion-exchange membrane process for chlor-alkali electrolysis
- Manufacturing process for acrylonitrile
- Molding machine purging agent









# **Products contributing to the environment in Mobility**

Xyron mPPE

#### **Electric drive**

#### LIB separator



#### Others

- Lead-acid battery separator for idling start/stop
- Artificial suede for vehicle interiors (using recycled material)
- CO<sub>2</sub> sensor
- Low-VOC polyacetal
- Foamed engineering plastic
- Neoma Foam insulation





# Rolling performance

Lightweighting

#### S-SBR for tires





## Working with outside entities

**Proactive participation with other companies and groups** 



Environment

& Energy

## Effort toward 2050 (1) hydrogen

Alkaline water electrolysis system to accelerate hydrogen society

The world's largest-scale alkaline water electrolysis system using renewable energy at the Fukushima Hydrogen Energy Research Field (FH2R)



FH2R

Source: NEDO



10 MW-class alkaline water electrolysis plant



NEDO: Hydrogen social construction technical development project/Hydrogen energy system technical development/Technical development concerning business model construction and the large-scale actual proof of a re-energy use hydrogen system

Source: NEDO



21

GHG reduction



## **Carbon neutral sustainable world**

- Business contribution to society
- Actions at Asahi Kasei

## **Reduction of GHG emissions**

Accelerating the reduction by energy transformation and technological innovation



Note:

- Amount of emissions in Scope 1 + Scope 2
- Overseas emissions not included in FY1995 and FY2000

#### **Decarbonization and renewable energy use**

Steady progress on path to decarbonization



Target for zero coal-fired power

(facilities independently owned by the Asahi Kasei Group)

Alkaline water electrolysis,  $CO_2$  chemistry

Renovation of hydroelectric power plants

Greater use of low-carbon fuel (LNG, etc.)



Hydroelectric power plant in Miyazaki, Japan



Hebel Maison apartment building

Miko SRL, Italy

**Solar energy** 

Technology development

 $CO_2$ -free methane, H<sub>2</sub>, etc. (by 2050)

# Care for **People**

# Active life in the new normal

- Business contribution to society
- Actions at Asahi Kasei



# Active life in the new normal





## Active life in the new normal

# • Business contribution to society

• Actions at Asahi Kasei

# **Actions against COVID-19 (1)**

#### Ventilators

(significant expansion of production capacity)



# **Virus removal filters** Therapeutic apheresis (increased production) 1 Masks **Medical gowns**

## Actions against COVID-19 (2)

Providing new solutions with diverse technologies

# Surface disinfection solution with Klaran UVC LEDs

Fast inactivation of virus with high-performance UVC LEDs disinfecting various surfaces



#### Health Care

#### **2 3Cs visualization solution** with combination of CO<sub>2</sub> sensors and live cameras

Contributing to management of 3Cs avoidance measures and visualization of circumstances with technology to measure CO<sub>2</sub> concentration and display people in silhouette outline on live camera



High-precision/low-power CO<sub>2</sub> sensors + SKETOLN (privacy-protected imaging system)

## **Contribution to the aging society**

Providing effective therapy for quality of life

- Osteoporosis treatment
  - Teribone
  - Reclast
- Rheumatoid arthritis treatment
  - Kevzara

- Immunosuppressant
  - Envarsus XR
  - Bredinin

Bone Orthopedics

Immunology

Virus removal filters (for biopharmaceuticals and plasma derivatives) Critical care Heart disease

**Kidney** 

disease

- Defibrillators
- LifeVest
   (wearable defibrillator)
- Ventilators

- Recomodulin (anticoagulant)
- Therapeutic apheresis
- Artificial kidneys

**Health Care** 

## **Providing resilient homes**

Living with safety, security, and comfort

#### **Hebel Haus long-life homes**



Working with local governments to redevelop areas densely built with wood-frame houses to be fire-resistant areas

Area disaster prevention preparation project (Shinagawa Ward and Asahi Kasei)

Tokyo 10-year project for fire resistance of dense wood-frame areas







Grand Prix ジャパン・レジリエンス・アワード 2020

Home

& Living



#### LONGLIFE AEDGIS IoT disaster information system

Joint research with National Research Institute for Earth Science and Disaster Resilience

Home



# Active life in the new normal

- Business contribution to society
- Actions at Asahi Kasei

### **Operating on the premise of remote work**

Lessons from the pandemic

#### **Effectiveness of remote work**

- Compatibility with diverse lifestyles
- Maintaining and raising productivity
- Eliminating of sense of physical separation
- Digital documents and task improvements

#### **Challenges of remote work**

- Enriching communication
  - Among employees (value creation through diversity)
  - Between employees and the company
  - Preventing isolation
- Evolving management
- Raising engagement
- Security

#### Adapting/evolving in the new normal

#### Utilizing IT

Stimulating communication and heightening efficiency (including DX), security

- Awareness of the purpose of work
- Raising participation in the organization
- Heightening management ability premised on remote work
- Supporting individual career plans
- Promoting individual health



# **Building foundations for employees to thrive**



We want to work together

#### Advancing management for health

For the active performance of each individual



Physical and mental health of employees and their families

Basis of management for health

## Advancing management for health

For the active performance of each individual

#### Actions since April 2020

- Issuance of Statement on Management for Health
- Assignment of Executive Officer with responsibility
- Establishment of Corporate Health Care
   Promotion Center
- Establishment of medium-term goal and action plan

# Senior leaders of each region and business division promote health management

- Mental health
- Metabolic syndrome
- Cancer
  - Smoking
  - Quality of sleep

#### **Examples of our efforts**

- Holding AED lifesaving workshop regularly
  - ⇒ First lifesaving treatment in emergency (BLS: basic life support)
- Osteoporosis checkup subsidy support (Asahi Kasei Pharma)
  - ⇒ Enhancing awareness of osteoporosis; improving health condition



**Priority** 

matters



#### Achieving Care for Earth, Care for People

#### Advancing basic activities for sustainability

DX



#### **Dialogue with stakeholders**



#### **Diversity & Inclusion**



#### Human Rights





**Responsible Care** 

# Summary



## Care for **People**

# Active life in the new normal

#### Business contribution to society

- Measures against COVID-19
- Healthy longevity
- Resilient living

#### Actions at Asahi Kasei

- Work engagement
- Growth
- Health



# Sustainability for Asahi Kasei

# Care for Earth

# Carbon neutral Sustainable world

# Business contribution to society

- Environmental contribution products
- Resource circulation
- Clean energy (hydrogen, etc.)
- CO<sub>2</sub> separation/recovery
- CO<sub>2</sub> chemistry

#### Actions at Asahi Kasei

- Phasing out coal power
- Renewable energy use
- Technological development

# 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."



# Materiality



## Human rights

We support the International Bill of Human Rights, and respect basic human rights and diversity

#### Asahi Kasei is a signatory to the United Nations Global Compact

Human rights	<ul> <li>Businesses should support and respect the protection of internationally proclaimed human rights; and</li> <li>Make sure that they are not complicit in human rights abuses.</li> </ul>
Labour	<ul> <li>Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining;</li> <li>The elimination of all forms of forced and compulsory labour;</li> <li>The effective abolition of child labour; and</li> <li>The elimination of discrimination in respect of employment and occupation.</li> </ul>
Environment	<ul> <li>Businesses should support a precautionary approach to environmental challenges;</li> <li>Undertake initiatives to promote greater environmental responsibility; and</li> <li>Encourage the development and diffusion of environmentally friendly technologies</li> </ul>
Anti- corruption	<ul> <li>Businesses should work against corruption in all its forms, including extortion and bribery.</li> </ul>

The Asahi Kasei Group respects individuals' basic human rights and diversity, and endeavors to provide a workplace that enables anyone to be actively engaged

#### **1. Respecting Basic Human Rights and Diversity**

Our employees must respect individuals' basic human rights and diversity and, along with the basic policy of the Asahi Kasei Group regarding prohibition of discrimination on any protected category under applicable law, such as nationality, ancestry, race, ethnicity, religion, gender, ideology, age, physical characteristics, sexual orientation, employment status, form of contract, etc., our employees must not condone such discrimination.

#### **2.** Prohibition of Harassment

Our employees must maintain a workplace free of unlawful harassment, whether moral, sexual harassment, physical or psychological, etc., and our employees must not condone such words or deeds.

#### **3. Prohibition of Inhumane Labor Practices**

Code of Conduct applied worldwide

Asahi Kasei Code of Conduct

Based on respect for basic human rights, our employees must not condone inhumane practices such as compulsory labor, child labor, slavery, etc. Furthermore, our employees must not condone such practices done by our suppliers.

We also endorse the UN Guiding Principles on Business and Human Rights and the Children's Rights and Business Principles.

# Asahi Kasei's Digital Transformation (DX) Initiatives



\* Materials Informatics

# **External evaluation**

Evaluation organization	Index/name	Evaluation of Asahi Kasei	Major initiatives participated in
MSCI	MSCI Japan ESG Select Leaders Index	Adopted as a constituent stock AA (AAA–CCC)	
MSCI	MSCI Japan Empowering Women Index (WIN)	Adopted as a constituent stock 7.31 (max. 10)	Global Compact
FTSE	FTSE Blossom Japan Index	Adopted as a constituent stock 3.7 (max. 5)	
S&P	S&P/JPX Carbon Efficient Index	Adopted as a constituent stock	Business Call to Action
Sompo Asset Management	Sompo Sustainability Index	Adopted as a constituent stock	
CDP	CDP	Climate Change A- (A–D) Water Security A- (A–D)	
Nikkei	Smart Work Management	Special Jury Prize	CLean Ocean Material Alliance

# **Analysis based on TCFD\* recommendations**

Leveraging our diversity and capability to change in order to reduce risks and create opportunities



## **Operating income trend**

#### (¥ billion)

