

# Sustainability as an opportunity

***kuraray***

Possible starts here

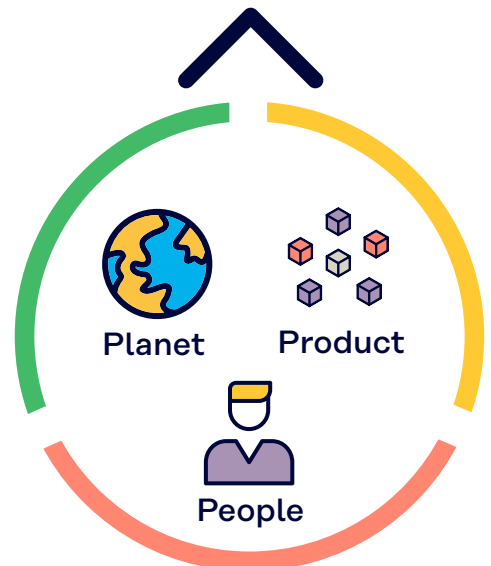


# We can't create the future alone.



**Prosperity**  
(Social Prosperity)

As a sustainability leader, Kuraray will develop innovative solutions with unique products and cleaner technologies to improve the natural environment and enhance quality of life for people everywhere.



# Linking Materiality with UN SDGs\*

We see our biggest circle of influence in the following five areas and have linked these to the UN SDGs using a detailed materiality analysis most recently in 2019.

## Creating value through business



Improving the natural environment



Improving the quality of life

## Creating value to strengthen the foundation of Kuraray



Effective use of resources and reduction of environmental impact



Improving supply chain management



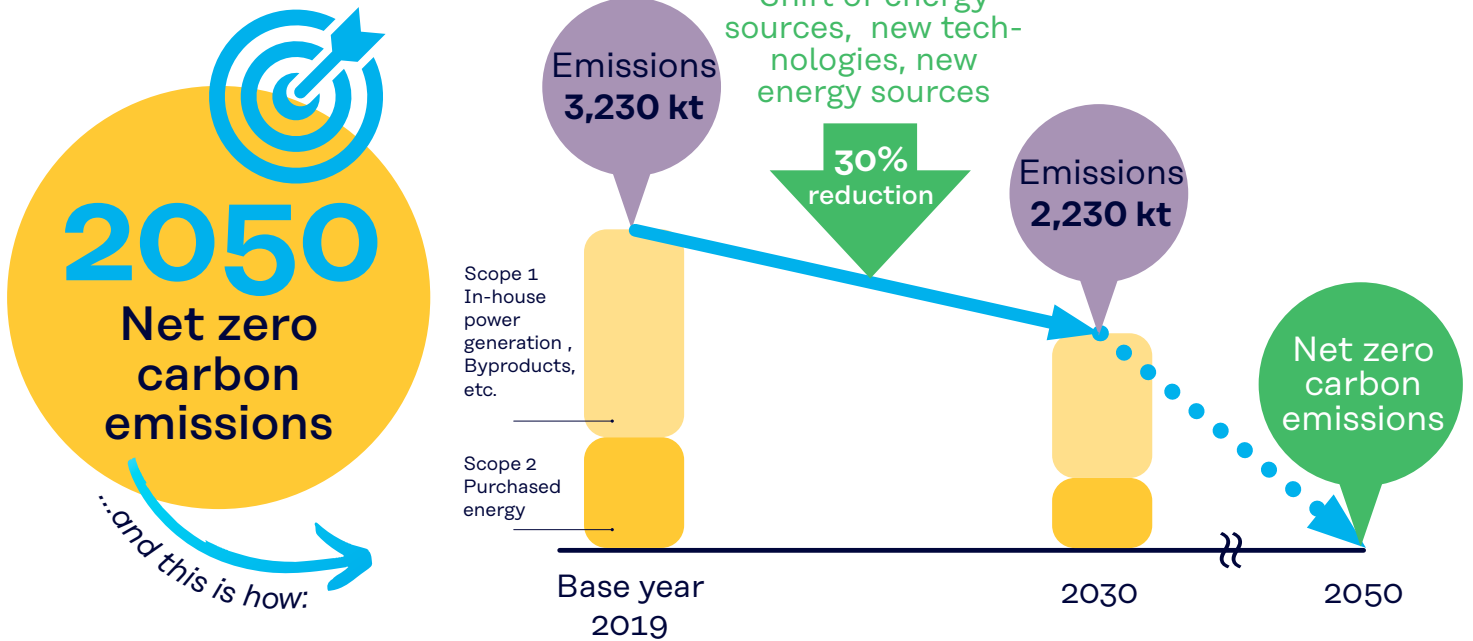
Building a "company that people can take pride in"





Planet

# Our Sustainability Activities



## Our initiatives to counter climate change by 2030

- Purchase unbundled energy attribute certificate
- Internal CCUS Project Team
- Encourage new GHG reduction CAPEX through internal carbon pricing system
- Investment of 80 billion JPY (727 million USD) in GHG reduction by 2030

We have set clear CAPEX investments to achieve our goals.

## What we've always done and won't stop



Improve energy saving



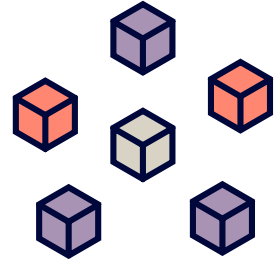
Improve water usage volume



Waste reduction



Comply with emission restrictions for chemical substances in each region.



Product

# Pursuing innovations in sustainable products

To achieve our long-term goal we focus on three product related key-points:

»For the people and the planet - to achieve what no one else can.«

1

Increasing the environmentally friendly products with the help of portfolio sustainability assessment (PSA)

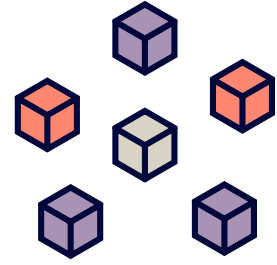
2

Focus to contribute on circular economy

3

Sustainable procurement





Product

# How we want to contribute to the natural environment & quality of life

5 global macro trends and how we identified them as our target fields and opportunity for a cleaner and safer future



## 1. Improvement of the global environment

- Air and water purification
- Reduce micro plastics
- Circular economy
- GHG capture, utilization and reduction of GHG emissions



## 2. Food and water security

- Food loss reduction
- Improve agriculture productivity
- Safe water supply



## 3. Digitalization and communications

- Electric and electronic device materials
- High-speed telecommunication device materials



## 4. Effective utilization of energy

- Materials for energy storage devices
- Energy-related materials
- Materials for electric and electronics devices



## 5. Calls for higher quality of life

- Medical and healthcare
- Beauty goods and living supplies
- Improve indoor and in-vehicle environments



# Portfolio Sustainability Assessment



## WHY do we have a PSA?

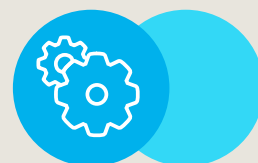
The Kuraray Group PSA system was constructed in accordance with these guidelines. By utilizing this PSA system, we are able to assess our portfolio with a high degree of objectivity and transparency. The Kuraray Group will continue using the PSA system to assess our products and technologies to improve our sensitivity to changes in the environment and society. Through our PSA screening efforts, we will actively seize on opportunities and respond appropriately to risks as we seek to realize a more sustainable portfolio.



## WHAT is a PSA?

“The Chemical Industry Methodology for Portfolio Sustainability Assessments (PSA)” which were released in 2018 by the World Business Council for Sustainability Development (WBCSD), is a guideline offering chemical companies a consistent methodology for assessing sustainability of their product portfolios.

## HOW do we do it?

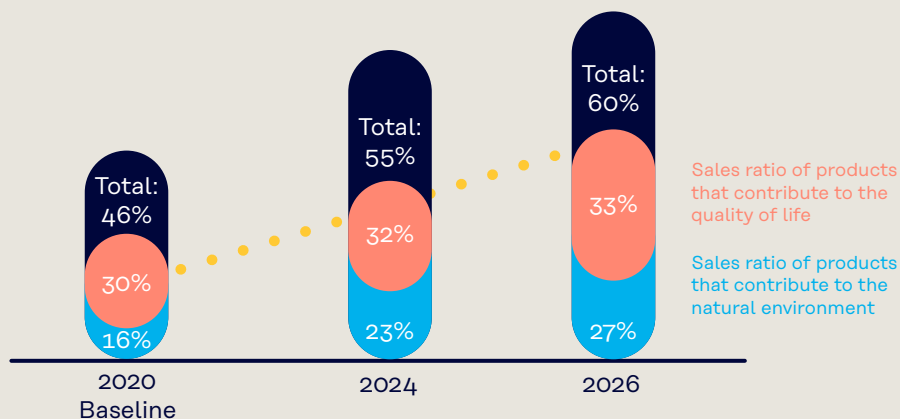


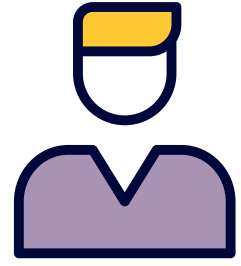
With the support of Sphera, U.S.-based ESG software and consulting company, we created the Kuraray PSA System, which is based on the WBCSD's chemical industry guidelines.

1. We identify products contributing materiality in all businesses.
2. We then assess each of their applications and areas on a scale of one to five.
3. Highly ranked products (rank four or five) are considered PSA contributing products.

## Our goal

Increasing the share of environmentally friendly products.





People

# Creating an inclusive workplace

To achieve our long-term goal we focus on five people related key-points:



Strive harder to ensure occupational safety and process safety



A culture that encourages those who take on challenging endeavors



Human resource development



Workforce in which diverse people inspire one another

5

Social contribution activities





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