

Delivering Value to Society through Product Lines that Support People, Their Livelihoods, and Our Planet

The UBE Group's product lines are being used in various aspects of society. Many of our products and technologies contribute to conservation. Our ongoing product and technology development enables us to achieve sustainable growth.



Integrated Report 2020
(Year ended March 31, 2020)



Social Essentials

Our core chemicals and construction materials businesses mainly make materials that are indispensable for supporting people, their livelihoods,

and our planet. We also manufacture an array of machinery that is vital for automobiles and other products and for infrastructure. Our offerings are invisible to most people but they are nonetheless

Numerical targets, initiatives, existing products, and technology development projects related to four environmental issue categories

Environmentally friendly products and technologies to account for more than 50% of consolidated net sales by fiscal 2030

Objectives and initiatives	Existing products and technologies	Providing (developing) materials, products, and technologies
Global warming Providing materials and products that help reduce and recover GHG emissions	<ul style="list-style-type: none"> Chemicals: Including synthetic rubber (for tires), nylon (for automobiles), ammonia (for fuel), polyimide, liquefied carbon dioxide, curing agents for powder paints (helps reduce VOCs), inverter capacitor materials, separators, separation membranes, silicon nitride, and Tyranno Fiber® Construction materials: Including torrefied pellets, MOS-HIGE, and calcium carbonate Machinery: Including energy-saving injection molding machines, extrusion presses, and air supportive conveyors 	CO ₂ mineralization and electrolysis, heat dissipation composite, radiative cooling, and high-performance insulation materials
Marine plastic waste Develop and supply materials and products that help resolve this issue		Multilayer film recycling, materials from waste plastics, and nylon recycling technology
Biodiversity Contribute to a healthier environment and conserve biodiversity through business	<ul style="list-style-type: none"> Chemicals: Heliofresh®, Heliotropin, high-purity chemicals, nylon (for food packaging applications), high-performance coating materials, and ammonium sulfate 	Bio-derived polymers and silk protein
Water resource conservation Help conserve water resources by properly using and managing water	<ul style="list-style-type: none"> Construction materials: Magnesium hydroxide (slurry) 	



Synthetic rubber:
Helping enhance fuel efficiency and reduce CO₂ emissions through vehicle tire applications



Nylon:
Helping conserve energy by lightening vehicles and reducing CO₂ emissions while contributing to lower food losses through food packaging materials that store contents hygienically

Timeline for generating more than 50% of consolidated net sales from environmentally friendly products and technologies by fiscal 2030



central to innumerable end products that contribute to better living and social progress.

Integrated Report 2020 explained the importance of our businesses for society in each business segment. This year's report focuses on our environmentally friendly products and technologies.

Setting New Targets to Help Resolve Environmental Issues

As well as the announcement of its policy for achieving carbon neutrality by 2050 to take a further step to address environmental issues, the UBE Group also looks for environmentally friendly products and technologies to account for more than 50% of consolidated net sales by fiscal 2030.

We have categorized environmental issues in terms of (1) global warming, (2) marine plastic waste, (3) biodiversity, and (4) water resource conservation.

Environmentally Friendly Products and Technologies

We have formulated environmentally friendly product and technology guidelines encompassing the four categories above in keeping with a section of ISO 14001:2015 that describes the environmental impacts of organizations. We view tackling environmental issues as an opportunity, and will help resolve those problems by selling more environmentally friendly products and technologies.

Tackling Environmental Issues and Pursuing Sustainable Growth

The UBE Group's product lines are indispensable to society. Our environmentally friendly products and technologies in particular create value that leads to a sustainable social future. Also, those products and technologies are active growth businesses, our growth drivers. Our efforts to help resolve global warming and other issues through our offerings make it possible for us to grow sustainably and that is the role we should play as a materials manufacturer.

Criteria for assessing environmentally friendly products and technologies

Contamination prevention

- Help reduce, mitigate, and capture atmospheric emissions
- Help reduce, mitigate, and recover wastewater
- Help reduce, mitigate, and recycle waste
- Help reduce usage and disposal of toxic and hazardous chemicals, mitigate use, and contribute to recovery
- Contribute to other identifiable pollution reductions and mitigation

Sustainable resource usage

- Help enhance energy efficiency
- Help conserve and reclaim water
- Help reduce water use and access and contribute to usage mitigation, recovery, and reuse
- Help improve materials usage efficiency, usage reductions, and reuse
- Help minimize product resource requirements

Climate change mitigation and adaption

- Help reduce, mitigate, and capture CO₂ emissions
- Help reduce, mitigate, and capture methane emissions
- Help reduce, mitigate, and capture nitrous oxide emissions
- Help reduce, mitigate, and capture GHG emissions from human activities
- Help mitigate and adapt to temperature rises
- Help mitigate and adapt to rainfall trend changes
- Help control and adapt to frequently abnormal weather
- Help control, tackle, or adapt to sea level rises
- Help control and resolve worsening water shortages
- Help protect, maintain, and restore ecosystems
- Help reduce or avoid damage to agriculture and fisheries

Environmental protection and biodiversity and natural habitat restoration

- Help evaluate and protect biodiversity
- Help assess, protect, and restore ecosystem services
- Contribute to sustainable land and natural resources use
- Help foster environmentally friendly urban and rural development



Lithium-ion battery separators:
Helping reduce fossil resource consumption and CO₂ emissions through use in hydrogen, electric, and other advanced vehicles



Separation membranes:
Helping lower fossil resource use through biofuels refining and FCV applications



Torrefied pellets:
As biomass fuel, helping reduce fossil resource consumption and CO₂ emissions from thermal power generation

