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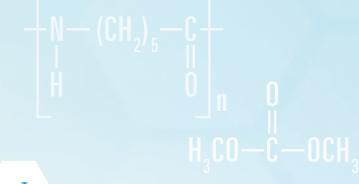
"Coexistence and Mutual Prosperity" "From Finite Mining to Infinite Industry"

UBE Corporate

Pursue technology and embrace innovation to create value for the future and contribute to social progress

Leveraging the manufacturing technologies the UBE Group has cultivated throughout its long history, create the value required by society, in the safe and environmentally friendly manner demanded by society, and deliver that value to the people. And by doing so, help to solve global environmental issues, which have become a common issue for all humankind, and contribute to people's lives and health, and an enriched future society.

Ethics, Safety and Security, Quality, and People



Long-Term

A corporate group centered on specialty chemicals that contributes to the global environment, human health, and an enriched future society

Medium-Term UBE Vision 2030 Transformation — 1st Stage

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Integrated Report 2023 focuses on strategies and initiatives that will enable the UBE Group to materialize its basic policy of specialty chemicals growth to attain the goals of UBE Vision 2030.

The report also includes information on Mitsubishi UBE Cement Corporation, which is now an equity-method affiliate.

The UBE Group's Evolution

The UBE Group's operations as a chemicals company date back to 1933, when we started producing ammonium sulfate with coal we mined in Ube. We have helped resolve social issues with our chemicals technology for 90 years. By integrating efforts to pursue growth in specialty chemicals with initiatives to tackle environmental issues, we aim to achieve sustained growth toward and beyond our centennial.

1933-

established

business

Start of chemicals

Producing ammonium

sulfate fertilizer from coal

Ube's low-grade coking coal

While industry peers considered

unsuitable, from it UBE was able

material for ammonium sulfate.

contributed to the agricultural

progress by commercializing that

Ube Nitrogen Industry, Ltd.,

1934 First ammonium sulfate shipment

inorganic salt.

to synthesize ammonia, a key raw

Ube Nitrogen Industry, Ltd.,

Ube Nitrogen Industry, Ltd., established

1923

Ube Cement Production, Ltd., established

1914

Ube Shinkawa Iron Works established

1897

1897

established

UBE established

UBE's origins

UBE started out as

a silent partnership,

Coal Mine, in which

invested to develop-

local residents

called the Okinoyama

Okinoyama Coal Mine

Okinoyama Coal Mine established

1955

 Ube Caprolactam Factory established

1951

 Central Research Laboratory opened (now Pharmaceutical Research Laboratory)

Ube Industries, Ltd. established through amalgamation of the four companies



1971

 Polybutadiene plant established in Chiba (now UBE Elastomer Co. Ltd.)

Polymer Laboratory opened (now Future Tech Laboratory)

1967

Sakai Factory established

Machinery business spun off as UBE Machinery Corporation, Ltd.

UBE Corporation

UBE Cement Corporation Osaka Research & Development Center Opened

2022

1998

1993 Spain Operations launched at Thai synthetic rubber plant

1997 Thailand

 A global production structure established (Caprolactam, nylon, and fine chemicals businesses started continuously during this period)





Osaka Research & Development Center

Ube Industries Ltd. changed its trade name to

Cement-related business spun off to Mitsubishi

2022-

Renamed UBE Corporation Focusing on specialty chemicals

Overhauling our business structure

We transformed into a corporate group centered on specialty chemicals on transferring our cement-related business to Mitsubishi UBE Cement Corporation. We accordingly renamed ourselves UBE Corporation.

We will pursue sustainable growth by integrating efforts to drive our expansion in such value-added specialty chemicals as polyimide, separation membranes, fine chemicals (C1 chemicals), composites, and pharmaceuticals and deliver solutions to environmental issues.

1942-

1942

Established Ube Industries, Ltd. Chemicals business expands and specialty chemicals operations flourish

Expanding the chemicals business

The postwar period saw Japan rapidly rebuild its economy and drive advances in chemical technologies. UBE began manufacturing nylon precursor caprolactam in 1955 and nylon resin in 1959. We developed various nylon applications and grades, deploying films for food packaging and supplying highly reliable automotive components.

In 1971, we started making polybutadiene rubber in Chiba, Japan, primarily for automobile tires.

We started by synthesizing biphenyl tetracarboxylic dianhydride (BPDA) in 1971. In 1983, we became the world's second company to commercialize polyimide films. We leveraged its outstanding heat resistance and other properties to expand applications for polyimide film, primarily for circuit boards,

On top of that, we developed gas separation



such as integrated circuits for liquid crystal displays.

membranes using polyimide, hitherto deemed hard to manufacture. This enabled us to enter the separation membrane business for hydrogen, nitrogen gas, carbon dioxide, and other gases.

Fine chemical product development

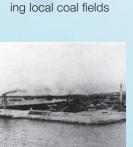
the discovery of the palladium-catalyzed nitrite process (see note below) carbon monoxide coupling reaction. We drew on proprietary techniques to develop C1 chemicals employing carbon monoxide as a raw material.

An excellent example of that approach was dimethyl carbonate, a solvent for electrolyte in lithium-ion batteries. We have been expanding our business downstream to such high-performance coatings as polycarbonate diol (PCD) and polyurethane dispersion (PUD).

Note: The nitrite process is a clean synthesis technology employing carbon monoxide and methanol as raw

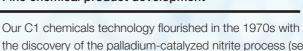
We initiated full-fledged research into pharmaceuticals from the 1980s. Under the

Corporation, we launched a jointly developed anti-allergy medication in 2000. A partnership with Daiichi Sankyo Company, Limited, led to a hypertension drug launch in 2003. To date, we have contributed to better health by commercializing four proprietary pharmaceuticals.





1910 Okinovama Coal Mine



Started full-scale pharmaceutical research

collaboration with Mitsubishi Tanabe Pharma

Also, we harnessed organic synthesis technology that we amassed as a chemical manufacturer to expand our contract pharmaceuticals manufacturing business for active ingredients and intermediates.

The UBE Group's Business

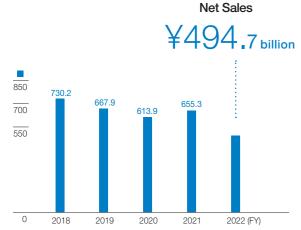
The UBE Group is a manufacturer with a product lineup that includes chemical products and molding machines. Our products in the chemicals business range from basic chemicals to high-performance products in We deliver products and services from our network of domestic factories and offices in Japan and from overseas locations such as Thailand and Spain. Specialty business Basic business Others Segment Main products Major applications **Specialty Products** COF films for large displays Polyimide • Flexible OLED substrates Separation membranes • Biomethane production 11.8% Net sales Bearings and heat-dissipating Ceramics ¥62.2 billion substrates for xEVs Battery materials LiB separators for xEVs (Separators) Polymers & Automotive Composites Chemicals components LiB electrolyte Fine chemicals / Synthetic leather and PCD, PUD high-performance coatings water-based paints Food packaging films Nylon polymer Nylon fibers for apparel Caprolactam, Net sales and fertilizer ¥293.4 billion ammonium sulfate Industrial Industrial chemicals sulfate Synthetic rubber Elastomer Automotive tires (Butadiene rubber) Machinery Automotive component Molding machines (Plastics and metals) molding Transportation Industrial machinery systems, mills and 18.4% bridges Net sales machines ¥96.9 billion Steel products Steel products Drug discovery research Others Pharmaceuticals Manufacture of active ingredients and (Drug discovery research / CDMO) intermediates and process development 13.9% • In-house power generation and sale Net sales Electricity (In-house power generation) of surplus power ¥73.1 billion

	2018	2019	2020	2021 ²	2022
(FY) Results of Operations (Millions of yen)	2010	2019	2020	2021-	2022
Net sales	¥ 730,157	¥ 667,892	¥ 613,889	¥ 655,265	¥ 494,738
Breakdown of net sales by reportable segments	+ 700,107	+ 007,092	+ 010,009	+ 000,200	+ 434,730
Chemicals ³	314,984	286,041	259,380	341,493	
Specialty Products ³				,	62,158
Polymers & Chemicals ³					293,388
Pharmaceutical ^{1,3}	10,129				,
Construction Materials ³	250,250	303,037	282,855	221,476	
Machinery	97,264	90,799	78,727	96,987	96,921
Energy & Environment ¹	75,853				
Others ³	4,935	4,576	3,117	3,411	73,110
Adjustment	(23,258)	(16,561)	(10,190)	(8,102)	(30,839
perating profit	44,551	34,033	25,902	44,038	16,290
rdinary profit (loss) ⁴	47,853	35,724	23,293	41,549	(8,689
rofit (loss) before income taxes	44,678	30,364	22,433	36,794	(2,596
rofit (loss) attributable to owners of parent	32,499	22,976	22,936	24,500	(7,006
nancial Position (Millions of yen)					
otal assets	¥ 740,286	¥ 727,269	¥ 769,710	¥ 837,954	¥ 731,636
Total current assets	315,699	303,956	331,727	394,689	283,016
Total property, plant and equipment, net	331,316	330,042	331,223	332,757	208,027
Total investments and other assets	93,271	93,271	106,760	110,508	240,593
otal liabilities	385,734	372,822	389,075	443,919	349,977
Total current liabilities	226,063	199,336	200,440	249,174	171,159
Total long-term liabilities	159,671	173,486	188,635	194,745	178,818
otal net assets	354,552	354,447	380,635	394,035	381,659
eneral					
let income (loss) per share (Yen)	¥ 312.36	¥ 227.33	¥ 226.79	¥ 249.31	¥ (72.25
ash dividends per share (Yen)	80.00	90.00	90.00	95.00	95.00
nareholders' equity per share (Yen)	3,261.23	3,287.73	3,549.52	3,813.16	3,726.68
eturn on sales (ROS) (%)	6.1	5.1	4.2	6.7	3.3
leturn on asstes (ROA) (%) ⁵	6.9	5.2	3.7	5.4	(0.7
Return on equity (ROE) (%) ⁶	10.1	6.9	6.6	6.7	(1.9
Shares of common stock issued (thousands) ⁷	101,259	101,319	101,144	96,807	97,401
Number of consolidated subsidiaries	71	69	66	65	36
Number of employees	11,010	10,890	10,897	9,849	8,028

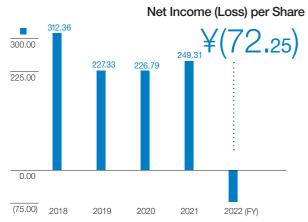
- Notes: 1. The Pharmaceutical segment was integrated into the Chemicals segment and the Energy & Environment segment was integrated into the Construction Materials segment on April 1, 2019.
 - 2. We have adopted the "Accounting Standard for Revenue Recognition" (Accounting Standards Board of Japan Statement No. 29, March 31, 2020) since the beginning of the consolidated first quarter of fiscal 2021. The respective figures from fiscal 2021 onward indicate the amounts after the aforementioned accounting standard has been applied.
 - 3. As the cement-related business became an equity-method affiliate, on April 1, 2022, our reportable segments were changed to four new segments: Specialty Products, Polymers & Chemicals, Machinery, and Others. The Pharmaceutical segment, which was previously included in the Chemicals segment, has been integrated into the Others segment.
 - 4. Based on Japanese GAAP
 - 5. ROA = (Operating profit + Interest and dividend income + Share of profit of entities accounted for using equity method) / Average total assets
 - 6. ROE = Profit attributable to owners of parent / Average shareholders' equity
 - 7. Shares of common stock issued excluded treasury stock

Consolidated Financial and Non-Financial Highlights

Financial **Highlights**



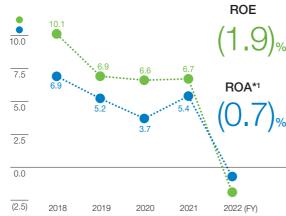
Net sales decreased 24.5% from a year earlier. This was because the transfer of our cement-related business to an equity-method affiliate outweighed gains from robust Specialty Products sales and higher prices in Polymers & Chemicals.



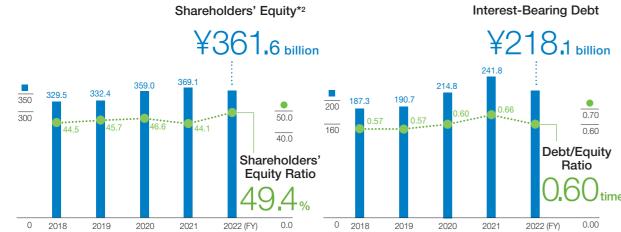
Net loss per share was ¥72.25, from net income of ¥249.31 a year earlier. Prime factors were an operating profit decline, the impact of surging coal prices on the cement-related business, and an extraordinary loss from restructuring expenses.



Operating profit fell 63.0% year on year owing to higher raw materials and fuel prices and lower sales volumes due to sluggish demand in Polymers & Chemicals, as well as the impact of biennial ammonia product factory inspections. The return on sales (ROS) dropped 3.4 percentage points, to 3.3%.



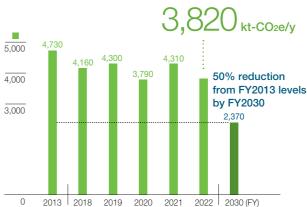
The return on equity (ROE) was (1.9)%, from 6.7% a year earlier. The return on assets (ROA) was (0.7)%, down from 5.4%.



Shareholders' equity was down 2.0%. At the same time, the shareholders' equity ratio rose 5.3 percentage points, to 49.4%. This reflected a decrease in total assets from divesting the cement-related business.

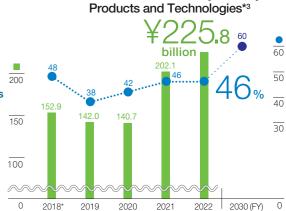
Interest-bearing debt declined 9.8% from a year earlier, owing largely to lower borrowings after divesting the cement-related business. The debt/equity ratio was accordingly a robust 0.60 times.

Non-Financial **Highlights**



UBE Group GHG Emissions*3

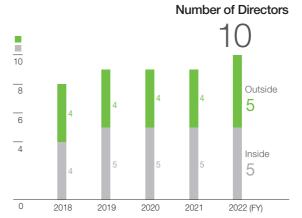
GHG emissions decreased 11.4% from a year earlier and were 19.2% lower than in fiscal 2013.



Sales of Environmentally Friendly

Sales of environmentally friendly products and technologies rose 11.7% year on year. They constituted 46% of net sales, unchanged from a year earlier.

^{*} Figures for fiscal 2018 are references, and are based on different calculation criteria

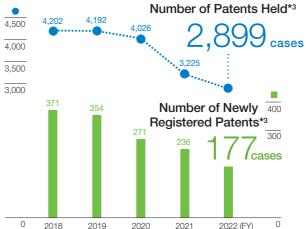


The number of outside directors increased by one with the appointment of a woman. Outside members account for half of the Board of Directors.



R&D expenses were basically unchanged. Spending for environmental contribution represented 32% of these expenses in fiscal 2022.





The number of patents and new patent registrations declined because we split off one of the chemicals businesses and took inventory of patents held. Patents related to the specialty business accounted for 64% of the number held in fiscal 2022.

Percentage of Women in Management Positions (Parent Company)



Gender equality is a key focus of our diversity, equity, and inclusion measures. Despite intensive efforts in that regard, women held 4.1% of management positions, down 0.1 percentage point.

^{*1} ROA = (Operating profit + Interest and dividend income + Share of profit of entities accounted for using equity method) / Average total assets *2 Shareholders' equity = Net assets - Share subscription rights - Non-controlling interests

^{*3} Figures exclude those for the cement-related business transferred to Mitsubishi UBE Cement.

To Our Stakeholders

Stepping Up Business Structure Reforms and Making Necessary Forward Business Investments to Swiftly Materialize Our Vision for 2030

Overview of Fiscal 2022

Key Operating Climate Changes and Impacts

Operating Climate and Business Progress Highlights

The fiscal year under review was generally challenging for all of our businesses. The operating climate changed far more than we initially envisaged. Prime factors included soaring energy prices stemming from the conflict in Ukraine, significant hikes in raw materials, fuel, and logistics costs, and a semiconductor shortage that slowed an automobile production recovery. It was against this backdrop that the cement business incurred a significant loss amid surging prices of raw materials and coal and other fuels. This situation also greatly affected the basic chemicals business. Inventory adjustments from the third guarter affected products for digital applications. In contrast, strong prevailing demand for biogas, particularly in Europe and the United States, caused gas separation membrane sales to skyrocket.

Progress with Medium-Term Management Plan: UBE Vision 2030 Transformation — 1st Stage

Steady Progress as a Corporate Group Centered on Specialty Chemicals

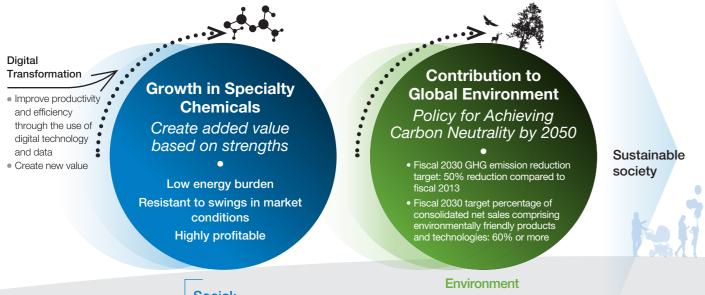
Focused Firmly on Vision for 2030

Notwithstanding diverse changes in the operating climate that have greatly affected our business,

UBE Group's business model

Vision for 2030 (Long-Term Vision)

A corporate group centered on specialty chemicals that contributes to the global environment, human health, and an enriched future society



Business foundation

Enhancing human capital, diversity, equity, and inclusion

Governance:

Effective group governance

we remain firmly focused on our Vision for 2030.

The operating climate has little affected the specialty businesses, which have grown steadily. Dramatic changes in that environment have heightened our awareness of the need to reaffirm the legitimacy of our long-term vision and goals and to step up business structure reforms.

We have retained our long-term quantitative targets. While we fell short of our goals in the first year of our medium-term management plan, we will endeavor to turn things around in fiscal 2023 so we can reach our goals in fiscal 2024, the final year of that initiative. On the environmental front, we will do our utmost to cut greenhouse gas (GHG) emissions through business structure reforms. These will include shutting key caprolactam manufacturing lines in fiscal 2024 and withdrawing from the ammonia business in fiscal 2030.

Restoring Our Price Book-Value Ratio

Our price book-value ratio at the end of fiscal 2022 was 0.55x. We are ashamed with this market assessment of our value. We are working to articulate and

execute a clear business strategy that stock market players understand to boost our corporate value.

We aim to achieve sustainable growth through "Growth in Specialty Chemicals" and "Contribution to Global Environment." We believe that we can improve our ROE and cut the cost of capital by performing well, such as by becoming more profitable and steadily lowering GHG emissions,



Building Value to Materialize Sustainable Growth
 Building Value to Materialize Sustainable Growth

thus improving our equity spread. Management and employees will work as one to overcome this test of our ability to act for our vision.

Growth Strategy for Specialty Chemicals to Achieve Long-Term Vision

Making Necessary Forward Business Investments to Position Ourselves for Growth

Priority Measures for Specialty Chemicals Growth

In the specialty businesses, we are particularly keen to expand in polyimide and other functional chemicals. The ultraheat resistance of polyimide makes it ideal for such applications as chip-on-film (COF) applications for large displays. Other uses of polyimide include hollow fibers for gas separation membranes. We will focus on expanding our business for the polyimide chain overall.

Composites are also important to us, as they help lighten automobiles. These materials will be

vital as more vehicles are electrified. We will reinforce our global expansion to grow in that area.

We also seek to expand in fine chemicals and high-performance coatings by drawing on our C1 chemicals and other technologies. We are seeing particular growth in the market for high-performance coatings as environmentally friendly materials. Applications for starting material of high-performance coatings, dimethyl carbonate include lithium-ion battery (LiB) electrolytes. We will concentrate on cultivating these materials as core specialty chemicals.

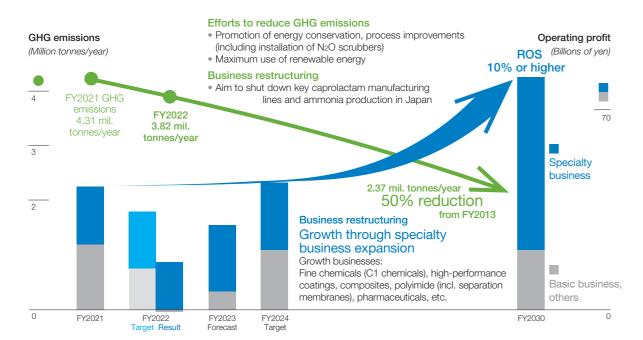
Stepping up contract development and manufacturing organization (CDMO) operations in the pharmaceuticals business will also be important in building our specialty chemicals presence. There, we aim to cultivate our capabilities in nucleic acid and small molecule drugs. We will expand the pharmaceuticals business based on organic synthesis technologies cultivated over the years in the chemicals business and the knowledge of drug discovery research.

Investment Strategies for Specialty Chemicals Growth

The three years of the current medium-term management plan will encompass many growth investment projects to materialize our Vision for 2030.

Vision for 2030-Transformation

Transform its business structure through aggressive investment in specialty chemicals to achieve both GHG emission reductions and business growth.



For example, demand has risen faster than expected for CO₂ separation membranes for biomethane production and other gas separation membranes amid increasing concerns about the environment. This necessitates accelerated capital investments. We will keep making planned capital investments even in the currently challenging business climate with offerings for which demand should be robust in 2030. It is with that in mind that I would like to explain progress with key investments and plans for growth in specialty chemicals.

For polyimide, we look to complete work to upgrade production of raw materials and films from fiscal 2023. For gas separation membranes, which I mentioned a little earlier, we have already decided to ramp up capital investment significantly. We have decided to bolster the competitiveness of copolymer products, which are high-value-added nylon products, by transferring their manufacture from Japan to Thailand, where we will build new composites production facilities. In our business for high-performance coatings, for which demand is soaring in Asia, we are pushing ahead with construction to raise polycarbonate diol manufacturing in Thailand. Our new plant there should start full-capacity production in this fiscal year.

In the pharmaceuticals business, we acquired API Corporation from the Mitsubishi Chemical Group in December 2022. Our plant had limited production capacity. Incorporating the various technologies and production capabilities of API has vaulted our contract development and manufacturing organization business to a leading position in the Japanese market.

We are also looking into entering the dimethyl carbonate field in the United States and cultivating a high-performance coatings business there.

Helping Resolve Environmental Issues

Advance Action Vital to Sustainably Enhance Corporate Value

Expanding by Integrating "Growth in Specialty Chemicals" and "Contribution to Global Environment"

We have emphasized the importance of accelerating business restructuring and stepping up vital business investments. The same approach applies to tackling environmental issues.



For example, delays in responding to carbon pricing and other changes in the operating climate would significantly affect performance. We will thus progress steadily with business structure reforms that we announced last year. These include withdrawing from the ammonia business in fiscal 2030 and shutting key caprolactam manufacturing lines in Japan in fiscal 2024. So, in view of the prevailing operating climate, including recent surges in energy prices, we will accelerate efforts to expand sales for environmentally friendly products while exploring the possibility of accelerating the implementation of these structural reforms.

Digital Transformation Initiatives

Creating Value through Digital Transformation to Create New Business Models

Investing a Total of ¥20 billion in Digital Transformation by 2030

We have done much to respond to accelerating moves to digitize business processes since we established the DX Promotion Office in April 2022. We have already decided to bring forward our deployment of the SAP S/4 HANA enterprise resource planning system. Starting with these

● Building Value to Materialize Sustainable Growth

and other investments, we plan to invest approximately ¥20 billion in adopting digital business processes by 2030, including for the above system and excluding maintenance investments in information infrastructure. Digital processes empower employees to focus on essential tasks, eventually leading to a business model that generates new enterprise value. We will leverage digital transformation to drive growth in specialty chemicals to streamline operations, stabilize production, and maintain and enhance quality. We will also take advantage of it to enable flexible work practices and cultivate an innovative corporate culture.

Enhance and Strengthen Human Capital

Embrace DE&I and Create an Innovative Corporate Culture

Progress with DE&I

An innovative business culture extending to all of our workplaces will be vital for us to expand as a specialty chemicals company. Gender equality is the most important element of pursuing diversity, equity, and inclusion (DE&I) to reach that goal.

Our efforts to increase the proportion of female employees in career-track positions has boosted the number of women in management positions. We have been able to hire and train highly talented women. We are confident that we will reach our targets of 15% female employees and 6% female managers by the end of our medium-term management plan.

Also, I believe that UBE will benefit greatly from the expertise of those who have worked elsewhere. We accordingly plan to increase the ratio of midcareer hires to more than 50%. We also look to recruit some people with foreign nationalities each year. Securing diverse perspectives through that approach will better equip us to tackle changes in the operating climate.

Respecting Human Rights

It goes without saying that we cannot fulfill our corporate social responsibilities without making efforts to respect human rights. UBE is a signatory to the United Nations Global Compact. We are also a signatory to the My Declaration of Human Rights Project of Japan's Ministry of Justice. As well as undertaking human rights due diligence, we

emphasize human rights initiatives across our supply chain from the perspective of sustainable procurement. We conduct regular surveys and monitor the human rights practices of key business partners.

Making Safety Our Top Priority

As a manufacturer, we have committed ourselves to making products safely and reliably while caring for the environment. Because the chemicals industry operates facilities at high temperatures and pressures, major accidents could greatly harm employees and communities. We will ensure the safety of these stakeholders while doing our utmost to prevent accidents.

Corporate Governance

Making Materiality a Prime Priority for Substantive, In-Depth Board Deliberations

Board of Directors' Activities

Our four materialities of growth in specialty chemicals, addressing global environmental issues, hiring and development of human resources, and strengthening the management platform (corporate governance and digital transformation) are the prime focuses of Board of Directors' deliberations.

Having added a female director and appointed another outside director since fiscal 2022, we have delegated as much authority as possible to executives, making the Board structure more conducive to discussions about materiality. The Board has deliberated extensively about the suitability and agility of growth strategies for the specialty businesses in light of explanations from executives.

To ensure that the Board of Directors properly fulfills its role, we created a forum for outside directors to gather and a joint training forum for executive officers and outside directors.

Machinery and Cement-Related Business Governance

As a holding company, we help UBE Machinery Corporation, Ltd., and Mitsubishi UBE Cement Corporation operate autonomously. In our capacity as their parent company, we exercise Group governance by convening Holdings Meetings.

Mitsubishi UBE Cement aims to become an

industry leader, so it needs to establish an autonomous governance structure. It has independent members on its Board of Directors and has structured itself like a listed company. Starting in fiscal 2023, Mitsubishi UBE Cement has formulated a medium-term management plan. While the Japanese cement industry generally faces challenging conditions, Mitsubishi UBE Cement looks to turn around and return to profitability in fiscal 2023. It will do so by progressing in shifting prices along the value chain, restructuring production systems, and deploying technologies to tap low-cost coal. In its plan, Mitsubishi UBE Cement has set a target of reducing CO₂ emissions by 40% compared to 2013 by 2030. We will keep participating in discussions on ways to achieve growth at that company, monitoring and supporting its efforts to tackle environmental issues.

Shareholder Returns

Allocating Cash to Stable Dividends and Investing Extensively in Growth

Shareholder Return Policy

We have retained our basic policy of stable dividends and investing extensively in growth. We seek to improve shareholder returns. Key targets are a dividend on equity (DOE) of 2.5% or more and a consolidated total return ratio of 30% or higher during our current medium-term management. Although earnings dipped in fiscal 2022, our dividends were unchanged in keeping with our DOE goal. At the same time, forward investments in specialty chemicals expansion are increasingly important. We will accordingly seek stakeholder understanding in allocating cash between stable dividends and extensive growth investments.

Message to Stakeholders

Materializing Vision for 2030 as Swiftly as Possible

In fiscal 2022, the first year of our current medium-term management plan, our results were



significantly below initial targets in an extremely challenging business climate. To reach our goals for fiscal 2024, the final year of this plan, we will set about achieving a solid recovery in fiscal 2023.

At the same time, in view of the current conditions I think that we should accelerate business structure reform efforts to materialize our Vision for 2030. We have long been adept at tackling change by recalibrating our business structure. By relentlessly pursuing structural reforms and investing in growth, we will reinforce our position to achieve Vision for 2030 as soon as possible.

I look forward to your ongoing support and encouragement for our efforts.

July 2023

Masato Izumihara
President & Representative Director

EO .

12 UBE Composition Integrated Report 2023

Message from the CFO

We will keep UBE financially sound while enhancing corporate value by steadily investing to expand specialty businesses offering high earnings stability and growth potential and contributing solidly to a better environment.

Hirotaka Ishikawa Director, Executive Officer CFO

Basic Financial Policies

Under our current medium-term management plan, we will invest heavily to grow our specialty businesses. We will also accelerate investments as needed. Expansion in these businesses should enable us to generate more cash. At the same time, we will stay financially sound by controlling debt so it is commensurate with our current cash-generating capacity and shareholders' equity.

We will serve investors by carefully explaining our Vision for 2030 measures and progress so they can better understand our growth potential.

Overview of Operating and Financial Performances in Fiscal 2022

Fiscal 2022 earnings were far lower than we projected initially. This was due to surging raw materials and fuel prices, automobile production cuts, and dropping demand in the Chinese market. It is particularly noteworthy that equity-method affiliate Mitsubishi UBE Cement Corporation incurred a large operating loss owing to a hike in coal prices and an extraordinary loss from restructuring expenses. It thus posted its first ordinary loss since fiscal 1993.

Our ROS and ROE were 3.3% and (1.9)%, respectively. These numbers were much less than initial forecasts. On the upside, financial strength indicators were solid. Our debt/equity ratio improved to 0.60 times, while the shareholders' equity ratio rose to a sound 49.4%. These gains were due largely to a transfer of assets and liabilities to Mitsubishi UBE Cement.

Fiscal 2023 Forecasts

Under our current medium-term management plan, we target an operating profit of ¥40 billion, ordinary profit of ¥47 billion, and ROS and ROE of 8% for fiscal 2024, the final year of that initiative. While our numbers in fiscal 2022 were much lower than we sought, we anticipate recoveries in fiscal 2023 performance of Polymers & Chemicals on demand recoveries, and somewhat lower raw materials and fuel prices. We also look for Mitsubishi UBE Cement to regain profitability in the fiscal year. Our forecasts for fiscal 2023 are therefore for operating profit of ¥30 billion, ordinary profit of ¥38.5 billion, ROS of 5.5%, and ROE of 7.4%.

Numerical Targets and Progress under Medium-Term Management Plan		20)22	20	2024 (FY)	
wedium-Term iv	nanagement Plan	Targets	Results	Targets	Forecasts	Targets
Key Figures (Billions of yen)	Net sales	¥510.0	¥494.7	¥520.0	¥545.0	¥520.0
(Dillions of year)	Operating profit	34.5	16.3	41.0	30.0	40.0
	Ordinary profit (loss)	31.0	(8.7)	45.0	38.5	47.0
	Profit (loss) attributable to owners of parent	21.0	(7.0)	32.0	27.5	33.0
Key Indicators	ROS	6.8%	3.3%	7.9%	5.5%	8%
	ROE	5.6%	(1.9)%	8.2%	7.4%	8%

These results should position us well to attain our goals in fiscal 2024.

Enhancing Corporate Value

As of March 31, 2023, our price book-value ratio*1 was a lackluster 0.55x. We will endeavor to eliminate this discount by tackling our four materialities*2 of growth in specialty chemicals, addressing global environmental issues, hiring and development of human resources, and strengthening the management platform (corporate governance and digital transformation).

We will drive growth, centered on specialty businesses by broadening our earnings scale to enhance our ROE. Increasing the proportion of specialty businesses should also cut equity costs, as those operations are less vulnerable to economic swings.

We will tackle environmental issues by halting production at our ammonia plant and scaling back domestic caprolactam production, thereby lowering GHG emissions. We think that this will reduce the cost of shareholders' equity by reducing uncertainty (performance volatility) together with the improvement of our ESG evalution. We will additionally boost the ratio of environmentally friendly products and technologies. These areas should enjoy profitable growth as environmental concerns increase, thus boosting our growth rates over the medium through long terms.

We will accordingly strive to improve variables of corporate value, notably our ROE, our equity cost, and our growth rate. We will thus undertake initiatives combining growth centered on specialty businesses and efforts to address environmental issues. We will have to enhance human capital and strengthen our

business foundations to those ends. We are thus prioritizing DE&I and digital transformation.

- *1 Price book-value ratio = ROE x Price-to-earnings ratio = ROE x 1 / (Equity cost - Expected growth rate)
- *2 Please see pages 18–19 for details. Materiality

Cash Allocation

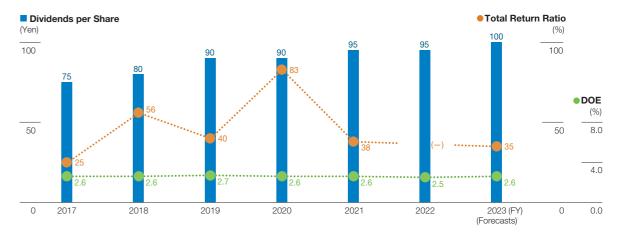
We project cash available for distribution over the three years of our current medium-term management plan at ¥250 billion. This would comprise ¥145 billion in operating cash flow, ¥15 billion from sales of assets and other sources, ¥55 billion from debt financing, and ¥35 billion from cash. At the same time, we assume cumulative cash outflows of ¥160 billion for investments, ¥32 billion for R&D, and ¥29 billion for shareholder returns.*3

We have lifted investments ¥30 billion from an initial target of ¥130 billion. We have embarked on investments in specialty businesses, such as to upgrade polyimide film and the separation membrane plants. At the same time, we expect operating cash flow to decrease ¥37 billion. To overcome that, we are undertaking ¥55 billion in debt financing, compared with an initially planned repayment of ¥12 billion.

Our basic policy on shareholder returns is to maintain stable dividends, with a consolidated total return ratio of at least 30% and a DOE ratio of at least 2.5%. While we incurred a loss attributable to owners of parent in fiscal 2022, we decided to uphold dividends at the previous year's level in view of a solid DOE ratio.

We aim to further enhance future shareholder returns by investing heavily in growth during the current medium-term management plan.

*3 Please see pages 22–23 for details on cash allocation. Progress under UBE Vision 2030 Transformation —1st Stage, Our Medium-Term Management Plan



Note: Total return ratio was calculated to reflect the effects of the stock purchases of ¥10 billion in fiscal 2018, and ¥10 billion in fiscal 2020 (implemented in fiscal 2021).

Building Value to Materialize Sustainable Growth

Please see pages 24–27 of the 117th Securities Report for information regarding other risks and details (in Japanese only).

Opportunities



Risks and Opportunities

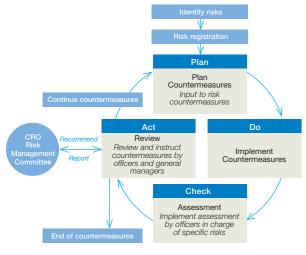
Risk Management Policy and System

UBE suitably manages risks to the UBE Group and stipulates risk management rules, based on the internal control framework established by the Board of Directors. In this way, risk management is implemented for all Group companies.

The President of UBE appoints a director or executive officer to serve as Chief Risk Officer (CRO). The CRO is responsible for promoting the implementation of risk management tasks for the UBE Group. The Risk Management Department provides administrative and other support for the CRO, as the secretariat for risk management.

Serious (major) risks that impact the entire Group are reported to the Risk Management Committee for discussion. They are then submitted to the Strategic Management Meeting, where the members discuss approaches and effective measures based on the risk recognition. The details of these discussions are regularly reported to the Board of Directors, which monitors the risk management.

Individual officers are appointed to manage a particular serious (major) risk. Under this system, each officer evaluates the risk concerned along with the effectiveness of relevant risk management measures from a Groupwide perspective. The officer then provides guidance and instruction to relevant departments for risk management measure implementation in the following fiscal year.





Risk Management

//www.ube.co.jp/ube/en/sustainability/risk-

Note: HAZOP (Hazard and Operability Study) evaluates the adequacy of safety measures in view of assumed process abnormalities

Risk Overview Examples Risk Items

Countermeasures

- Ensure an appropriate spread by close monitoring of raw material market and swiftly passing on price increases when raw material prices soar
- Cut cost in plants
- Accelerate growth of the specialty business by concentrating operating resources
- Establish a Crisis Response Committee to prepare response manuals and periodically review departmental and Group company business continuity planning and to respond flexibly to
- Implement reforms to create a business structure in which carbon productivity is high and realize stable
- Enhance market competitiveness by staying a step ahead of rivals on the development front
- Increase in demand for products that cater to changes in social needs

R&D

Deterioration

of chemicals

business results

Category

• R&D themes do not proceed as planned, significantly delaying new product development and leading to a cessation in development

If supplies increase owing to capacity hikes at other

owing to supplier accidents or other occurrences

prices to drop amid intensified competition

business activities to halt

· A pandemic causing production to shut down or

raw materials

companies and there is a dramatic change in prices of key

raw materials owing to demand balance and energy price

changes, a smaller price spread between products and

• It becomes impossible to secure the required raw materials

• It becomes impossible to respond in a timely manner to

customer demands for products for which generational

changes are swift, causing sales volumes to decline and

- Approvals for new drugs in the pharmaceuticals business are postponed or revoked
- Concentrate operating resources based on business portfolio, swiftly materializing R&D results and endeavoring to enhance development precision
- Build technological superiority and shorten lead times by utilizing open innovation and DX
- Strengthen specialty businesses and expand developing businesses

Environment

Environmental • Costs increase significantly owing to the introduction of a carbon tax, as the Company has expanded its business while using coal effectively If the Company is deemed a laggard in addressing

- environmental issues, sales could languish, with corporate value being adversely affected
- Changing customer requirements for UBE Group products amid heightened interest in the global environment, such as circular economy and nature positive
- Determine management priorities regarding environmental issues, focusing on reducing GHG emissions while developing and popularizing products and technologies that help lower environmental impact and foster a carbon-neutral economy
- Support the recommendations of the Task Force on Climate-related Financial Disclosures Announce policy for achieving carbon neutrality by 2050 and establish UBE Group Medium-
- Term Targets to reach those objectives by fiscal 2030 • Accelerate R&D in view of a circular economy including the development of recycling technology for composite plastics

• Prepare disaster and other response manuals, undertake planned renovations and

- Extensively conserve energy and improve processes
- Maximize the use of CO₂-free energy
- Implement reforms to create a business structure in which carbon productivity is high and realize stable
- Increase in demand for environmentally friendly products and technologies
- Pursue R&D and commercialization for CO2 usage and other technologies

Major natural disasters

 Natural disasters that are larger than expected cause severe damage to domestic and overseas plants, causing production to halt at manufacturing sites and sales units to become inactive

- reinforcements at manufacturing and other facilities while conducting regular disaster drills Leverage risk management systems to identify specific risks and implement countermeasures • Formulate business continuity plans (BCPs), regularly reviewing them and conducting drills
- Swift recoveries in the event of wide-ranging disasters will build market trust

Major accidents • Large explosions, fires, and leaks occur as a result of and leaks)

- (Explosions, fires, facilities accidents or human error at plants that are heavy users of such resources as high-pressure gas and hazardous substances. Such accidents significantly affect the lives, property, and environments of employees and residents, resulting in accident response and recovery spending, opportunity costs, and compensation to customers and residents
- Make safety a pivotal shared value for the UBE Group Rigorously comply with related laws and ordinances
- · Regularly inspect, maintain, and repair facilities
- Secure educated and experienced employees, prepare management manuals, conduct risk assessment such as HAZOP^(Note), and conduct regular disaster drills and environmental safety audits
- Attract and retain talented people
- Create new businesses and products that embrace diverse perspectives

- **Human capital** It becomes difficult to secure talented people to improve and human rights corporate value
 - Vital people leave the Company, including those with experience and expertise
 - Failing to adequately address the human rights demands of society and stakeholders, eroding public trust
- Formulate management policies that require respect for individuality and diversity and foster comfortable work environments and provide rewarding jobs • Enhance work-life balance, improve wages and other terms, and shorten working hours
- Create work environments that are conducive to female employees
- Formulate UBE Group Human Rights Guidelines and engage in human rights due diligence
- Educate executives and employees about human rights

Governance Product quality

Society

and liability

- Inappropriately inspected products are shipped, leading to damage claims and other significant costs, eroding public trust
- Manage processes, maintain and upgrade facilities, and install suitable measuring equipment
- Create work manuals and educate employees
- Implement extensive measures to prevent inappropriate quality inspection practices that came to light in the past from recurring

 Build solid growth foundations by fostering a corporate culture that emphasizes compliance and

Information

- A system shutdown from a cyberattack or other unforeseen event or critical information leaks, destruction, or other damage causing production to halt, leading to massive compensation claims
- Information Security Committee was established to step up efforts in the following respects:
- Formulate and disseminate related regulations and develop technical measures to detect and prevent unauthorized intrusions
- Provide security education and training for executives and employees
- Establish Computer Security Incident Response Team to minimize damage from security incidents

- Major compliance

 Business activities languish because compliance violations damage credibility
 - The Company or its employees violate laws and regulations, making it subject to legal sanctions and constraints on business activities while undermining its social reputation
- Create and maintain an updated list of key domestic laws and regulations and share information on all laws and regulatory revisions and abolitions
- Identify and formulate measures for laws and regulatory risks using risk management systems
- Provide regular e-learning and training programs for all employees

builds customer trust

■ Building Value to Materialize Sustainable Growth
■ Building Value to Materialize Sustainable Growth

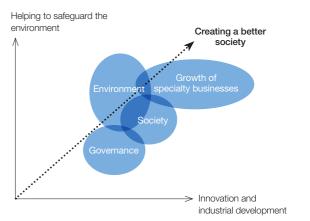
Materiality

SDGs Items to Materiality The UBE Group's Measures Key KPIs Related Pages Which We Contribute FY2024 numerical targets We aim to build an organization that can grow steadily and become Key specialty business growth more profitable in any economic climate. We will get there by strategies Operating profit: **¥40.0 billion** increasing the ratio of specialty businesses* in our overall business. Pages <u>24–35</u> (Of which, specialty businesses: ¥24.0 billion) Specialty businesses encompass many operations that generate minimal GHG emissions. We look to lower emissions rates by lifting R&D and intellectual property Ordinary profit: **¥47.0 billion** the contributions to sales of such businesses. Pages 36-39, 40-41 (Including ¥8.0 billion in equity in earnings of Mitsubishi We are emphasizing R&D activities and intellectual property strategies to build a competitive edge in the specialty business. UBE Cement Group) * Polyimide, separation membranes, ceramics, semiconductor gases, Growth in **ROS: 8%** separators, composites, fine chemicals (C1 chemicals), high-performance coatings, pharmaceuticals, phenolic resin specialty **ROE: 8%** chemicals FY2030 numerical target ROS: 10% or higher Global environmental issues stem from the expanding impacts of FY2030 numerical targets Initiatives to materialize carbon human activities. They include population growth, mass neutrality and disclosure based on GHG emissions reduction: 50% reduction consumption, and international trade across national borders and TCFD recommendations compared to FY2013 Pages <u>54-55</u>, <u>56-57</u> We have formulated the following three categories for ongoing Percentage of consolidated net sales comprising Addressing environmental action. Initiatives and disclosure regarding environmentally friendly products and (1) Addressing climate change (carbon neutrality) circular economy and nature positive global technologies: 60% or higher (2) Contributing to a circular society (circular economy) Pages <u>60–63</u> environmental (3) Contribute to nature conservation and restoration (nature positive) We are particularly stepping up efforts to reach carbon issues neutrality by cutting GHG emissions across our value chain. In addition, we will help resolve environmental issues by providing products, technologies, and services that materialize a circular economy and nature positive and by engaging and collaborating with stakeholders. People will be the engine of the UBE Group's growth over the FY2024 numerical targets Discussion about talent strategy medium and long terms. We will hire more women and foreign Pages 46-49 Percentage of women in the workforce: 15% nationals while educating employees to cultivate people with diverse values and perspectives, thereby enabling us to respond swiftly to Details and progress of priority Hiring and Percentage of women in management changes in the business climate and pursue sustainable growth. measures positions: 6% development Pages <u>50-53</u> of human Percentage of mid-career recruitment in the Other information about human workforce (generalist positions): **50% or more** resources capital Page 65 Percentage of non-Japanese recruitment in the workforce (generalist positions): **Several people** Digital transformation strategy We will accelerate efforts to expand our specialty chemicals business and help resolve environmental issues by pushing forward Pages <u>42-45</u> with a digital transformation strategy that involves all employees and Strengthening Corporate governance We adopted a new Group structure under UBE Vision 2030 the management Pages <u>68–75</u> Transformation —1st Stage, our new medium-term management platform plan. We have structured ourselves to persue specialization as a chemical company and ensure proper governance at our Group (corporate machinery and cement companies. We are striving to increase governance diversity on the Board of Directors and transfer authority to executives while preparing a framework to deepen deliberations and digital about materiality. transformation)

Determining Materiality

We comprehensively take into account environmental issues and other Group risks (Please see pages 16–17 for details), mega trends, the global consensus on sustainable social development, and the Group's technological capabilities for helping lower environmental impact in identifying and focusing on materiality impacts that affect our sustainable growth.

We consider the environment our greatest risk in view of our high GHG emissions. We seek to reduce these risks and turn them into opportunities not only by endeavoring to slash emissions but by building our portfolio of environmentally friendly products and technologies.



Consensuses to which we have referred

- Sustainable Development Goals
- SASB Standards, Value Reporting Foundation
- Universal Declaration of Human Rights
- Guiding Principles on Business and Human Rights
- ISO 26000, a global standard for social responsibility
- Global Reporting Initiative standards

18 UBE Corporation Integrated Report 2023 19

The UBE Group evaluates the risks and opportunities of environmental issues and other aspects of changes in the business climate to identify materiality. We then plan and implement management strategies and deliver products and solutions, thereby delivering real value to society while tackling the negative impacts of climate change and helping to realize social sustainability in our drive to generate sustainable growth.

Changes in operating climate Capital components of enterprise

Climate change and other environmental issues

 Accelerating green transformation to become carbon neutral

COVID-19 pandemic and other global outbreaks, increasing incidence of natural disasters and aging infrastructure

- Changing behavioral patterns to prevent infections and contain spreads
- Enhancing national resilience and rebuilding infrastructure to prevent and reduce disasters

Population growth in emerging nations, expansion of middle class, and urbanization

 Food, water, resources, infrastructure, and energy shortages

Russia's invasion of Ukraine

 Insecure access to food, resources, and energy

Aging populations in developed nations, diversifying work practices and globalization

- Providing more opportunities for female employees
- Fostering diversity
- Cultivating global talent

Digital transformation

- New business model
- Enhanced productivity
- Accelerated R&D

20

Financial Capital

Underpinning enterprise value with a sound financial position

Equity capital ¥369.1 billion*

* As of April 1, 2022

Credit ratings R&I: **A-** JCR: **A** Please see pages 14-15 for details.

Manufacturing Capital

Building a three-region chemical products manufacturing structure

Three plants in Japan and

two overseas

Human Capital

Respecting diverse people and values Number of employees 7,584* (Consolidated)

> * As of March 31 2022 (Number of employees in the cement-related business is excluded.)

> > Please see pages 46-49, 50-53, and 65-66 for details.

Intellectual Capital

Broad technological foundations

R&D expenses ¥10.4 billion

Number of of patents held 3,225*

* As of April 1, 2022 Please see pages 40-41 for details.

Social Capital

Emphasizing stakeholder engagement

Number of one-on-one meetings with analysts and investors

in fiscal 2022 Approx. 200 Regional Responsible Care (RC)

engagement Since 1997

Please see pages 58, 67, and 73 for details.

Natural Capital

Lowering environmental impact Total energy input

7.841 thousand MWh

Water resource withdrawals

370 million tonnes

Please see pages 54-55, 56-57, 60-63 and the 2023 Integrated Report Supplementary Information (Environment and Safety/Quality Assurance) for details.

Purpose

Leveraging the manufacturing technologies the UBE Group has cultivated throughout its long history, create the value required by society, in the safe and environmentally friendly manner demanded by society, and deliver that

Materiality

Digital

transformation

Please see pages

18-19 for details

Growth in

specialty

chemicals

UBE Vision 2030 Transformation, our long-term vision

Capital

Risks and

for details

Bedrock of value creation

Opportunities

Please see pages 16–17

investments

value to the people. And by doing so, help to solve global environmental issues, which have become a common issue for all humankind, and contribute to people's lives and health, and an enriched future society.

cals that contributes to the global environment, human health, and an enriched future society

Strategy and

for details

Addressing

Environmental

Issues

Integrated Report 2023

Resource Allocation

Please see pages 22-23

A corporate group centered on specialty chemi-

Free cash flow

owners of parent

of enterprise value

FY2022

mpact on capital components

Profit (loss) attributable to

Operating profit ¥16.3 billion

Y(7.9) billion

Y(7.0) billion

3.3 % ROS (1.9)%ROE (0.7)%ROA

Number of newly registered patents

Percentage of consolidated sales comprising environmentally friendly products and technologies

46%

177

GHG emissions

3,820 kt-CO2e/v Water discharges

345 million tonnes

Savings from resource reuse and energy conservation

¥3.2 billion

Please see the 2023 Integrated Report Supplementary Information (Environment and Safety/Quality Assurance) for details.

Contributions to the digitalization of society

Value provided to society

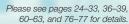
Building Value to Materialize Sustainable Growth

Developed organic electroluminescent displays and semiconductor manufacturing materials

Please see pages 24-26, 29-31, and 36-39 for details.

Addressing environmental issues

Developing technologies to use CO2 and waste plastic, manage energy, and use natural raw materials



Providing environmentally friendly products and solutions

of lithium-ion batteries, eco-tires, lightweight automotive materials,

Please see pages 54-55 for details.

Please see pages 54–55, 56–57, and 60–63 for details regarding initiatives for environmental issues

Addressing healthcare and food issues

Contributing to health, food hygiene, and food production (such as in terms of pharmaceuticals, food packaging films, and fertilizers)



Please see pages 34-35 and 60-63 for details

Contributing to a circular economy

Recycling resources Developing technologies to use CO2 and waste plastics

Please see pages 36-39 and 60-63 for details

Contributing to regional communities

Creating jobs, paying taxes, engaging in regional development, and helping conserve regional environments

Please see pages 58-63 for details

Capital reinjections into new value creation

Products and Solutions

Please see pages 24–35 and 76–77

for details

ESG Please see pages 46–75 for details.

Generating

value

UBF Corporation

Performance

for details

Please see pages 5 and 80–81



(including products for manufacturing

and biofuels)















21

Progress under UBE Vision 2030 Transformation —1st Stage, Our Medium-Term Management Plan

This initiative guides our drive to materialize our Vision for 2030. We have positioned three years through fiscal 2024 as a period for reinforcing our earnings base and investing in growth while pressing forward with ongoing business structure reforms to focus on specialty chemicals and address environmental issues.

Basic Policy and Priority Measures	Related pages
Pursuing global profit growth driven by specialty chemicals	Pages <u>24–35</u>
Structural changes in response to global environmental issues	Pages <u>54–57</u>
Enhancing human capital for sustainable growth	Pages <u>46–49</u> , <u>50–53</u>
Enhancing corporate value and creating customer value by promoting DX	Pages <u>42–45</u>
Further improving governance	Pages <u>68–75</u>

An adverse business climate prevented us from reaching our targets for fiscal 2022. While the result for the Basic business was particularly below target, we aim to reach our goals for fiscal 2024 by pursuing growth in such specialty business areas as polyimide and separation membranes while improving the profitability of basic businesses.

Progress of Nu	20)22	20	2024 (FY)		
	_	Targets	Results	Targets	Forecasts	Targets
Key Figures (Billions of yen)	Net sales	¥510.0	¥494.7	¥520.0	¥545.0	¥520.0
	Operating profit	34.5	16.3	41.0	30.0	40.0
	Ordinary profit (loss)	31.0	(8.7)	45.0	38.5	47.0
	Profit (loss) attributable to owners of parent	21.0	(7.0)	32.0	27.5	33.0
Key Indicators	ROS	6.8%	3.3%	7.9%	5.5%	8%
	ROE	5.6%	(1.9)%	8.2%	7.4%	8%

Progress by Segment (Billions of yen)		Net sales				Operating profit				
	20	2022 2023		2024	2022		2023		2024 (FY)	
Segment	Targets	Results	Targets	Forecasts	Targets	Targets	Results	Targets	Forecasts	Targets
Specialty Products	¥ 69.0	¥ 62.2	¥ 70.0	¥ 71.5	¥ 75.0	¥13.0	¥10.5	¥12.5	¥12.5	¥13.0
Polymers & Chemicals	302.0	293.4	320.0	313.0	316.0	18.5	2.4	24.0	12.0	22.0
Machinery	106.0	96.9	98.0	108.5	100.0	5.0	5.2	5.5	6.0	6.0
Others	60.0	73.1	57.0	88.5	54.0	2.5	2.6	3.5	3.5	4.0
Adjustment*	(27.0)	(30.8)	(25.0)	(36.5)	(25.0)	(4.5)	(4.5)	(4.5)	(4.0)	(5.0)
Total	¥510.0	¥494.7	¥520.0	¥545.0	¥520.0	¥34.5	¥16.3	¥41.0	¥30.0	¥40.0

* Adjustment includes elimination of inter-segment transactions.

Progress by Portfolio Segmentation										
(Billions of yen)			Net sales			Operating profit				
	20	22	20)23	2024	2022		2023		2024 (FY)
Portfolio	Targets*1	Results	Targets*1	Forecasts	Targets*1	Targets*1	Results	Targets*1	Forecasts	Targets*1
Specialty business	¥143.5	¥138.2	¥149.0	¥165.0	¥162.0	¥23.5	¥18.3	¥24.5	¥20.0	¥24.0
Basic business	238.5	236.9	252.0	252.0	240.0	11.0	(3.2)	16.5	7.0	15.5
Machinery business	106.0	96.9	98.0	108.5	100.0	5.0	5.2	5.5	6.0	6.0
Other businesses (incl. adjustment) *2	22.0	22.8	21.0	19.5	18.0	(5.0)	(4.0)	(5.5)	(3.0)	(5.5)
Total	¥510.0	¥494.7	¥520.0	¥545.0	¥520.0	¥34.5	¥16.3	¥41.0	¥30.0	¥40.0

^{*1} The targets announced in May 2022 have been reset by allocating adjustments for internal transactions to each portfolio.

Business Portfolio

В	usiness Portfolio Segmentation	Businesses
Specialty business	Aim for further growth and expansion in business that can create added value and achieve high profitability based on the Group's core technologies and strengths in the value chain	 Polyimide • Separation membranes Ceramics • Semiconductor gases • Separators Composites • Fine chemicals (C1 chemicals) High-performance coatings • Pharmaceuticals Phenolic resin
Basic business	Aim to steadily improve and add to profits	 Nylon polymers Caprolactam, ammonium sulfate Industrial chemicals Elastomers Polyethylene films Processed resin products

Others: Sales companies outside Japan, logistics and analytical services, real estate business, machinery, etc. Note: See pages 24-35 for details on the growth strategies of businesses in blue text.

Capital Allocation

Allocate cash generated to growth investments, R&D, and shareholder returns

3-year cumulative cash inflows (Billions of yen)	Initial targets in the medium-term management plan			3-year cumulative cash outflows (Billions of yen)	Initial the me manag
Operating cash flow*1	¥182.0	¥145.0		Investments	¥1
Sale of assets, etc.	15.0	15.0	Total available	R&D	
Odle Of assets, etc.	10.0	10.0	for distribution	Debt repayment	
Debt financing	0.0	55.0	¥250.0 billion	Shareholder returns	
Cash (Billions of yen)	Initial targets in the medium-term management plan	Projected 3-year cumulative total	Initial targets in the medium-term management plan \$\fomal2.0 billion	Cash (Billions of yen)	Initial the me manage
Cash on March 31, 2022	¥ 35.0	¥ 35.0*2		Cash on March 31, 202	5 ¥

	3-year cumulative cash outflows (Billions of yen)	Initial targets in the medium-term management plan	3-year cumulative total		
	Investments	¥130.0	¥160.0		
	R&D	32.0	32.0		
	Debt repayment	12.0	0.0		
1	Shareholder returns	29.0	29.0		
	Cash (Billions of yen)	Initial targets in the medium-term management plan	Projected 3-year cumulative total		
	Cash on March 31, 2025	¥ 29.0	¥ 29.0		

Business Resources Allocation Plan by Portfolio Segmentation and Progress

We plan to lift capital expenditures, investments, and loans by ¥30 billion from initial plans, concentrating resources on the Specialty business. The proportion of Others is increasing as we accelerate investments in digitization and other areas.



^{*} Total capital expenditures, investments and loans (including acquisitions), and R&D expenses

Key Measures in Fiscal 2022

Busir	ness and capacity expansions	Alliances, acquisitions, and business restructuring		
Industrial chemicals Started boosting high-purity nitric acid plant capacity by 50%		Cement-related business	Mitsubishi UBE Cement started operations	
High-performance Started 4,000-metric tonnes polycarbonate diol production capacity upgrade in Thailand		Phenolic resin	Absorbed Meiwa Plastic Industries	
Composites	mposites Began constructing special compounding facilities in Thailand		Acquired API Corporation	
Separation membranes	Started expanding separation membrane production facilities capacity by 80% in Japan	Companywide	Established new company to oversee U.S. business and reorganize Group companies	

^{*2} Adjustment includes elimination of inter-segment transactions.

^{*1} Operating cash flow before R&D investment

^{*2} Excludes the cash and deposits transferred to Mitsubishi UBE Cement Corporation as of April 1, 2022

Growth Strategies of Specialty Chemicals:

Polyimide and Separation Membranes







Specialty products are key focuses for UBE. This category comprises finished products resulting from processing raw materials and raw materials for specialty offerings.

The polyimide products covered here are from raw materials made in-house, films, varnishes, hollow-fiber membrane modules, and other products stemming from processing expertise. They are showing higher growth than projected in our current medium-term management plan amid significantly fluctuating raw materials and fuel costs.

As well as polyimide, our inorganic materials-based offerings include high-purity silicon nitride. Group companies provide such functional products as lithium battery materials, with their product lineups centering on separators.

Under our medium-term management plan, we seek to increase revenues and earnings by setting main target markets of high heat-resistant polyimide and silicon

nitride materials for electric vehicles (xEVs) and separation membranes for biofuels that contribute to carbon neutrality in addition to our traditional target markets of semiconductors and electronic components.

Keiichi Nagata

Senior Managing Executive Officer General Manager. Specialty Products Div.

Growth Strategies of Specialty Chemicals:

Polyimide



Product Characteristics Polyimide is a super engineering plastic with outstanding strength and heat resistance. Its applications span from televisions, smartphones,

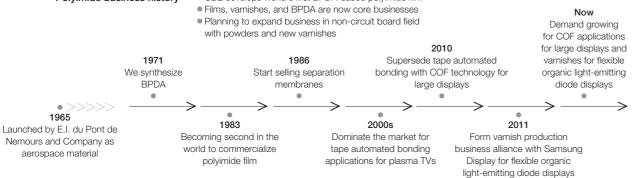
and automobiles to aerospace.

UBE is the world's only manufacturer to have

integrated production from biphenyl tetracarboxylic dianhydride (BPDA), a raw material, to varnish, film, and powder. Our raw materials and proprietary manufacturing techniques enable us to create products with features that competitively differentiate us. Our polyimide has a high market share in chip-on-film (COF) applications for large displays and flexible organic light-emitting diode substrates.

We also manufacture gas separation membranes incorporating polyimide hollow fibers (see pages 26-28 for details) and develop new products.

Polyimide chain overview Ultra-heat-resistant polyimide film **Applications** COF—For television sets and other large displays FPC—For flexible circuit substrates See pages 26-28 for Manama::: ′ separation membrane details Polvimide film when applied in solution and heat-treated Monomers for UBE's polyimide products Applications Manufactured with proprietary raw materials and For flexible organic light-emitting production techniques diode substrates, such as those • Used as raw materials for our products and also used in smartphones sold externally Polyimide business history UBE develops world's first BPDA-based polyimide film • Films, varnishes, and BPDA are now core businesses Planning to expand business in non-circuit board field Demand growing with powders and new varnishes for COF applications



New Value Creation

Opportunities and risks

Opportunities

- Demand for high heat-resistant polyimide is growing amid the uptake of 5G communications for smartphones and automobile electrification
- New applications created for BPDA-based polyimide requiring high heat resistance

UBE's strengths

- Integrated production of films, varnishes, and powders with in-house raw materials
- Unmatched line of BPDA-based products and unique molding and processing technologies
- BPDA-based polyimide product development capabilities and intellectual property strategy
- Market intelligence gathering capabilities

Risks

- Changes in prescribed properties and replacements with other technologies
- Greater emergences among new polyimide manufacturers, particularly in China

New value creation

 Contribute to an advanced digital economy by continuing to deliver distinctive offerings that markets need and only we can offer (for better

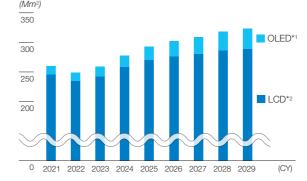
We are expanding target markets to contribute further to earnings growth through our polyimide chain.

Social and Market Analysis

UBE enjoys a high share of the market for chipon-film applications. We expect demand for large television sets employing this technology to expand at 3% to 4% annually. In the smartphone market, we expect that more products will incorporate flexible organic light-emitting diodes, for which our varnish is a strength. Also, we look for polyimide demand to increase in 5G-compatible flexible printed circuits, automotive, and other new applications.

We expect that materials requirements will diversify with technological innovations in displays. Demand for flexible solar cells and other environmentally friendly products should rise as environmental concerns grow.

Display area trends



Source: UBE estimates based on a range of data

- *1 Organic light-emitting diode
- *2 Liquid crystal display

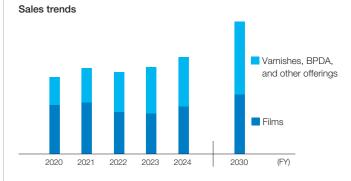
Vision for 2030

We will leverage our strengths in BPDA, films, and varnishes to secure high market shares in niche markets and remain very profitable to generate steady earnings growth in line with market expansion. By drawing on our edge in technology, product development, information gathering, and other areas, we will flexibly tackle changes in demand attributes and establish a structure that enables us to remain very competitive beyond 2030.

Growth Strategies

Progress under the Medium-Term Management Plan

- Chip-on-film unit sales for large displays declined amid lower demand for TVs and other products in fiscal 2022. On the upside, varnishes for flexible organic light-emitting diodes remained robust on a higher ratio of products with panels incorporating these offerings despite sluggish smartphone demand.
- Sales of powders for semiconductor manufacturing and inspection equipment increased as



UBF Corporation

Toward 2030

For biphenyl tetracarboxylic dianhydride and films, we will decisively capture expanding demand by steadily launching new facilities.

While expanding sales of films for flexible solar cells, we will steadily develop binders for lithium-ion batteries and water-based varnishes and contribute to a growing range of environmentally friendly products.

Growth Investments (expansion plans)

(Production capacity increases)

BPDA	Operational start in second half of fiscal 2023	+60%
Films	Test Operation start in second half of fiscal 2024	+20%

R&D and Intellectual Property

We will develop advanced products in response to social needs. These could include better living through digital technology and a growing awareness of the need to safeguard the environment.

We will provide products that leverage our strengths in BPDA-based polyimides, thus helping improve living standards and embedding environmentally friendly technologies in society.

Digital Transformation

- Strengthen marketing
- We cultivate new applications and customers through outbound marketing by digitally gathering customer information, analyzing markets, and strengthening customer touchpoints.
- Reinforce quality controls We are working to investigate the causes of defects by analyzing big data, monitor processes by using business intelligence tools, and visualize changes.
- Automation

We are digitizing processes by deploying tablets and using robotic process automation to automatically collect data and streamline process managemen

R&D employee message

I develop polyimide materials for advanced displays. I endeavor to attain properties that customers prescribe by employing organic synthesis techniques and evaluation methods that

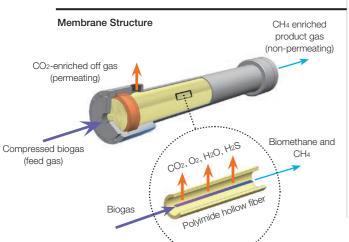
are comparable to actual processes while communicating closely with customers. I aim to help enhance UBE's brand position and technological prowess in the flexible display market.

Yuki Nemoto

Polyimide Group. Polyimide and Specialty Products R&D Dept Specialty Products Div.

Growth Strategies of Specialty Chemicals: Separation





Product Characteristics

There has been extensive research into polyimide as a separation membrane material because it offers outstanding heat and chemical resistance, mechanical strength, and high gas and vapor permeability and separation. UBE's gas separation membranes employ fine straw-shaped hollow fibers (with an outer diameter of 0.2 mm to 0.5 mm and an inner diameter of 0.1 mm to 0.4 mm) made of BPDA-based polyimide. The membranes separate mixtures of gases and vapors (with a molecular size of 250-550 picometers) by harnessing the permeability differences of the polyimide layer, which is about 100 nanometers thick, on the exterior surfaces of the membranes.

We package BPDA-based polyimide membranes in containers and provide them to customers as separation membrane modules. Their diverse applications include nitrogen enrichment (air separation), dehumidification, organic

New Value Creation

Opportunities and risks

Opportunities

• Building on the environmental contribution lead of our European business to replicate that approach in North America and Asia

Risks

 National policy changes or revisions owing to international conflicts

UBE's strengths

- Growing awareness of its energy-saving, maintenance-free membrane separation method
- UBE separation membranes employing in-house raw materials to deliver high gas permeability, separability, and durability

New value creation

- Contributing to surging production of biomethane and other renewable energy sources
- Contribute to a better environment and cut GHG emissions

solvent dehydration (alcohol dehydration), and hydrogen and carbon dioxide separation.

Social and Market Analysis

The public and private sectors are diversifying their energy sources, chemical raw materials, and other resources to cut GHG emissions and stabilize procurement. This situation has increased demand for carbon dioxide separation membranes

for biomethane production, organic solvent dehydration membranes for alcohol purification, and hydrogen separation membranes for hydrocarbon production. This trend should continue. We anticipate surging demand in this area in view of accelerating efforts to produce biomethane by separating carbon dioxide from biogas derived from livestock manure and waste, especially in Europe and the United States.

Application Examples

Environment and Safety



Removing oxygen from compressed air to obtain nitrogen

Nitrogen enrichment



Dehumidification

Obtaining dry air by removing water vapor from compressed air



Including protection from explosions of oil, gas, coal, chemicals, or other materials, the On-Board Inert Gas Generation System for aircraft, analytical gases, and laser cutter gases



Including railroad and machine tools and other pneumatic equipment, medical devices, and analytical equipment

Environment and Energy



Organic solvent dehydration

Removing water from alcohol and other organic solvents



Obtaining hydrogen and other useful gases from mixed gases



Removing carbon dioxide from carbon dioxide and methane mix to obtain pure methane



Refining bioethanol, industrial and pharmaceutical ethanol, isopropanol, ketones, and other substances



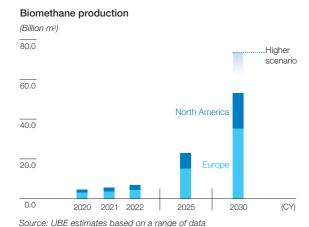
Hydrogen recovery for oil refineries, methanol, ammonia and renewable energy production, and adjusting concentration of syngas



Biogas, landfill gas, natural gas, and other methane enrichment

Growth Strategies of Specialty Chemicals:

Fine Chemicals and Composites



Vision for 2030

Demand is surging for carbon dioxide separation membranes for biomethane production. These offerings accounted for around 50% of membrane sales volume in fiscal 2022. We are a leading supplier of carbon dioxide separation membranes for biomethane production. We thus aim to capture fast growing demand and significantly enhance earnings growth by 2030. At the same time, we will strive to lift sales of environmentally friendly products, including hydrogen separation membranes and alcohol dehydration membranes, to 70% of sales and establish a business model delivering sustainable growth.

Growth Strategies

Progress under the Medium-Term Management Plan In view of surging demand for carbon dioxide

- separation membranes to produce biomethane, we decided to bring forward plans to upgrade our polyimide hollow fiber membrane production facilities for gas separation membranes at the Ube Chemical Factory and separation membrane module production facilities in the Sakai Factory. These new facilities should go on line in the first half of fiscal 2025.
- We will prepare for further demand growth by gathering intelligence and will explore additional investments at the right times and places.

Toward 2030

Renewable energy uptakes are accelerating. We

Sales volume 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030

will therefore cultivate technologies and solutions to materialize a green, hydrogen-based economy. Such an economy would feature such energy sources as biomethane, bio-alcohol, and sustainable aviation fuel, and use carbon dioxide effectively. We aim to expand our separation membrane business across diverse fields.

R&D and Intellectual Property

Research and development into polyimide hollow fiber for gas separation membranes started in the 1970s. This work bore fruit in 1986 with hydrogen separation commercialization. We have since developed separation membranes offering high permeability, separation, and durability for a range of applications. In R&D for manufacturing and applying hollow fiber membranes, containers, and separation membrane modules, repeated molecular, materials, strength, process, and other design processes and verification are driving our technology forward. We will continue to bolster our product capabilities and keep undertaking R&D to resolve environmental issues.

Digital Transformation

Our membrane module factory was an early adopter of a smart factory. It has enhanced productivity and quality, human resources development, and technology transfers. We will leverage big data from that factory to keep enhancing design and production technologies.

Sales employee message

I engage in gas separation membrane sales at UBE Europe GmbH (Germany). The European Union seeks to shift away from the fossil resources that it procures from Russia. It has embarked on plans to increase biomethane production around 10-fold as a natural gas alternative by 2030. Because of their outstanding durability and gas separation performance, UBE's gas separation membranes have earned the trust of customers and continue rapid growth for this application. Refining biogas can

produce bio-derived CO₂ together with biomethane, therefore its value in use is increasing. Our separation membranes are helping to decarbonize the economy.

Kentaro Wakamura UBE Europe GmbH









Dimethyl carbonate is a key C1 chemical product derived from our proprietary nitrite technology. We expect demand to grow for this product as a raw material for lithium-ion battery electrolytes and semiconductor photoresist developer solutions. High-performance coatings are downstream offerings in the C1 chemical chain. They have earned high regard for being eco-friendly. We will continue to expand our business in that area.

Composites are downstream from such businesses as lactams and nylon. We will expand composites beyond nylon, developing functions to meet market innovation needs as eco-friendly offerings, symbolized in the shift to electric vehicles.

We will lift production capacity overseas for C1 chemicals, high-performance coatings, and composites businesses and drive significant global growth for them.

Masayoshi Ota

Managing Executive Officer General Manager, Performance Polymers & Chemicals Div

C1 Chemicals and **High-Performance** Coatings



Product Characteristics

Our C1 chemicals are chemical chains derived from our unique nitrite technology, which we developed using carbon monoxide as a raw material. They are pivotal to downstream high-performance coatings and other aspects of our specialty chemicals growth strategy.

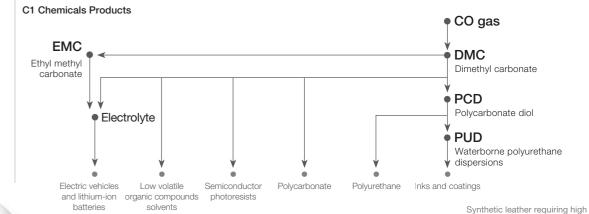
Dimethyl carbonate is a key offering. Our nitrite process for this product differs from those of other companies, delivering high quality without by-products. It is thus increasingly important as a raw material for lithium-ion battery electrolytes and semiconductor photoresist developer solutions, which both require high quality. It is also an important basic raw material for our expanding range of downstream polycarbonate diols. Dimethyl

carbonate is a common eco-friendly solvent because it is not a volatile organic compound.

UBE dominates the global polycarbonate diol market. We develop diverse grades to match the properties that customers prescribe. Our structure for supplying this product from Japan, Spain, and Thailand allows us to match our sales and development setups to specific market needs.

Polycarbonate diol is the main ingredient (polyol) in such high-performance polyurethane resins, notably for synthetic leather and coating materials. It can improve the heat, weather, hydrolysis, and oil resistance of polyurethane products. It enjoys high regard as an environmentally friendly product.

Waterborne polyurethane dispersions made from polycarbonate diol feature nano- through micron-level polyurethane particles dispersed in water. Common applications are as key constituents of automotive exterior paints and textile printing inks for clothing because these dispersions are free of volatile organic compounds and are environmentally friendly.



Low volatile organic EVs using lithium-ion mpounds automotive



UBF Corporation

New Value Creation

Opportunities and risks

Opportunities

- Growing demand for lithium-ion battery electrolyte in expanding market for battery electric vehicles
- Rising demand for eco-friendly, high-performance resin products

Risks

- New manufacturer entries intensifying cost competition
- → Better performance and lower costs from technological development
- New powerplants replacing lithium-ion batteries
- → Development of diverse applications

UBE's strengths

- We offer carbon monoxide-based dimethyl carbonate that gives more choices of plant locations and with higher quality than from other companies, which use ethylene as a raw material
- Global development and supply structure and diverse product range for polycarbonate diol
- Automotive paints and textile printing inks employ polyurethane dispersions, taking advantage of the swelling and abrasion resistance of their polycarbonate diol raw materials and eco-friendliness

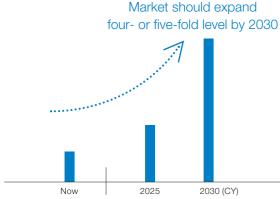
New value creation

- Supplying environmentally-friendly products and high-performance materials for better living
- Bolstering overseas sites to cater to local production and consumption needs and building supply structure encompassing multiple sites as part of business continuity planning

Social and Market Analysis

- A semiconductor shortage that reduced battery electric vehicle growth adversely affected the lithium-ion battery market in 2022. We nonetheless look for the market to expand four- or fivefold by 2030. Demand for dimethyl and ethyl methyl carbonate serving as the principal electrolyte components in various lithium-ion types should also soar.
- Demand for high-performance polyurethanes should climb 5% or so annually through 2030.
- The market for solvent-free coatings should expand 5% to 10% annually amid tighter environmental regulations.

Global lithium-ion battery market forecast



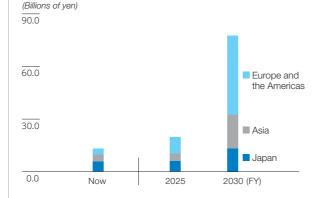
Source: UBE estimates based on a range of data

Vision for 2030

We will broaden local production and consumption by securing overseas plants for dimethyl and

ethyl methyl carbonate as battery electric vehicle markets expand. We will also transition faster to environmentally friendly products and increase our business in global markets, including through mergers and acquisitions and other inorganic growth strategies. By 2030, we target annual sales totaling ¥60 billion to ¥80 billion, with operating margins of 20% to 25%, from such C1 chemicals as dimethyl carbonate, polycarbonate diol, and polyurethane dispersion.

C1 chemical chain product sales



Growth Strategies

Progress under the Medium-Term Management Plan Sales of dimethyl carbonate for lithium-ion battery electrolyte are basically expanding on target. Polycarbonate diol sales are recovering despite a temporary dip owing to an economic slowdown in China. In Thailand, we look to expand sales as third facilities of polycarbonate diol becomes operational in fiscal 2023. In polyurethane dispersion,

the Ube Chemical Factory has inaugurated solvent-free grade facilities. We plan to fully begin producing base coat grades for automotive exteriors in fiscal 2023, a new application for us.

Toward 2030

- We will leverage our proprietary manufacturing process, which is free of by-products that could detract from earnings and ensures high quality to expand sites in North America and Europe to attain local production and local consumption worldwide of dimethyl and ethyl methyl carbonate and satisfy rising demand for lithium-ion battery electrolyte. In China, we will keep to licensing our technology to generate solid earnings.
- We will increase downstream polycarbonate diol and polyurethane dispersion production capacity, principally in Thailand and North America, to capture rising demand and expand our business.

Growth Investments

Planning to build new dimethyl and ethyl methyl carbonate plants in North America and Europe

Boost downstream polycarbonate diol and polyurethane dispersion production capacity in Thailand and North America (through third polycarbonate diol facilities in Thailand that should become operational in fiscal 2023)

R&D and Intellectual Property

The environment is a prime focus of research and development in this business area. In dimethyl and ethyl methyl carbonate, our ongoing efforts to develop manufacturing processes with low environmental footprints are steadily yielding results.

We design polyurethane dispersion to dry fast at low temperatures, thereby cutting carbon dioxide emissions during coating. We also make this offering durable, extending end-product lives. We satisfy customer performance requirements through an internal assessment program that we set up to correlate performance requirements and basic physical properties, providing materials for

relevant applications.

We have embarked on such new R&D focuses as using carbon dioxide, recycling, biodegradability, and tapping biomaterials to push toward carbon neutrality and a circular economy.

We established a laboratory in Shanghai in 2022 to serve the market in China, which is tightening its environmental regulations. We set up a program in China to propose ways to use polyurethane dispersion in line with local customer needs.

On the intellectual property strategy front, we aim to formulate a technology roadmap in view of our long-term vision and build a patent map that enables us to secure exclusive licensing rights and sharpen our competitive edge.





Osaka Research & Development

Laboratory in China

Digital Transformation

Developing diverse grades is important for polyurethane dispersion. For that business, we are standardizing and upgrading manufacturing and sales planning and better visualizing production. sales, and inventory. We are more closely linking customer and supplier information to integrate and optimize supply chain management overall for demand, production, and raw materials in terms of sales, plants, and procurement.

Highlights

- Set up a laboratory in China, bringing it on line in September 2022 to reinforce polyurethane dispersion marketing structure system across Asia and accelerate sales in the Chinese market
- Responded to growing market demand for fully water-based, solvent-free grades in line with tighter environmental regulations by installing polyurethane dispersion solvent-free grade facilities at the Ube Chemical Factory to cater to customer demand for such offerings

Employee message

We endeavor to provide customer solutions at a laboratory in China by reinforcing our paint formulation technology. For customers urgently needing to develop water-based paints, we offer proposals for compatible compounding materials matching applications to maximize fast drying, durability, and other performance attributes of our products. We will keep helping to shrink environmental footprints by collaborating with customers to develop water-based paints.

Yoshinori Sugimura General Manager,

Development Office, UBE (Shanghai) Ltd.

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Growth Strategies of Specialty Chemicals:

Composites



Product Characteristics

Composites combine multiple materials to perform functions that are beyond the scope of single materials. UBE's composites are the engineering plastics whose design encompasses not only resin materials design and blending processes but also molding and processing at customer sites and end-product usage.

Diverse applications for our composites include automobiles, electrical and electronic components, industrial machinery, and construction parts. They have found particular favor for automotive parts as metal substitutes that can help reduce vehicle weights.

Application: Corrugated tubes for automotive wire assemblies

Resin type: Nylon 6

Prescribed properties:
Extrudability, flame retardance, and voltage resistance

Application: Fuel cell vehicle hydrogen tank liner Resin type: Nylon 6

Prescribed properties: Moldability, compressive strength, hydrogen barrier properties



Application: Battery electric vehicle charger cases Resin type: PBT

Prescribed properties: Flame retardance, high strength, and dimensional stability

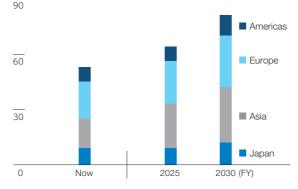
Social and Market Analysis

The prime application for engineering plastics is the automotive components market. We expect global vehicle production to reach 140 million units annually by 2050. Demand should accordingly grow for these plastics. At the same time, the transformation of powertrains is increasing the number of internal combustion engine-free automobiles, battery electric and fuel cell vehicles among them. This situation should diversify the composition and prescribed properties of automotive components. The UBE Group's composite products already serve in battery electric, fuel cell, and other renewable energy vehicles as well as in the engine parts of conventional gasoline models. We will expand our business by adapting to such market changes associated with decarbonization.

Vision for 2030

We aim to become a solutions provider with a global presence as a manufacturer of engineering plastic composites, including resins other than nylon, with sales of more than ¥60 billion in 2030. We aim to lift our production capacity from 53,000 metric tonnes annually, to 61,000 metric tonnes by the end of our current medium-term management plan. We would thereafter boost capacity to 80,000 metric tonnes by 2030.

Production through sites in the Americas, Europe, Asia, and Japan (k-tonnes/year)



Growth Strategies

Progress under the Medium-Term Management Plan Unit sales expanded more slowly than expected in fiscal 2022 because shortages of semiconductors and other materials caused automobile production cutbacks. We anticipate automotive applications to recover somewhat in fiscal 2023. In Thailand, we have acted as planned to boost capacity at existing facilities and build new production facilities for nonreinforced products, which is one of our strengths.

Toward 2030

We will develop unreinforced value-added products more swiftly. These include hydrogen tanks and gasoline tank valves for fuel cell vehicles and flame retardant corrugate products for battery electric vehicles.

We plan to boost capacity in Europe and the United States after similar moves in Thailand to cater to diversifying demand for automotive components in coming years. We will also explore expanding our business laterally and downstream, including by considering more acquisitions and alliances.

We will also focus firmly on developing ecofriendly products that incorporate recycled materials. They include biomass raw materials and nylon 6, for which we expect demand to grow. The goal here is to deliver new added value to customers.

New Value Creation

Opportunities and risks

Opportunities

- Automobile production continuing to grow and globalization (local procurement) accelerating at customer production sites
- Extensively using resins to lighten automobiles
- Creating new parts in line with powertrain changes
- Increasing focuses on lowering environmental impact in addition to enhancing conventional features

Risks

- A shrinking domestic automobile market
- → Expanding overseas sites
- Products becoming generalized from textiles manufacturers in emerging nations entering engineering plastics market → Cultivating product specialization
- Nylon substitutes emerging
- → Range of resin products other than nylon expanding

UBE's strengths

- Supply structure across Japan, elsewhere in Asia, Europe, and North America
- Basic technologies and intellectual property for bonding, joining, and laminating dissimilar materials
- A superb customer base, including with Japanese original equipment manufacturers and Tier 1 parts companies, and a long track record of doing business with them
- Materials design and development capabilities in keeping with customer needs

New value creation

- Locally providing high-quality products through our global supply structure that meet regional needs
- Delivering solutions by drawing on excellent customer relationships, processing technologies, materials design, and development capabilities
- Developing products with low environmental footprints to match growing customer needs

Growth Investments

As well as boosting capacity in Thailand, we are constructing a new production line for unreinforced value-added products, with operations scheduled to begin in early 2024.

R&D and Intellectual Property

In the engineering plastics business, we have concentrated development, primarily in composites, in Sakai. This is closer to our market, empowering us to swiftly identify customer and market needs and develop applications with customers.

As well as expanding our tank applications and existing value-added application businesses, we are cultivating environmental conservation areas. They include cellulose nanofiber composites and recycled nylon composites. We are constantly developing products to underpin our composites business by 2030.

Digital Transformation

We have made our composites business the first for which we are building a global SAP system linking Japan with Thailand and Spain. We share real-time data every day on sales, orders, accounts receivable, purchases, production, and inventory, using it for internal reporting and to deepen communications with local subsidiaries.

We will manage composites information globally, including such qualitative data as market information, customer requirements, and development focuses, and will build our information infrastructure.

Highlight

 Established Composite Business Dept. as a spin-off of the former Nylon Business Dept., reinforcing its functions. We will invest extensively in this area as a specialty business, targeting profitable growth worldwide.

Employee message

We are developing composite materials employing the biomass-based cellulose nanofiber as a reinforcing material in developing eco-friendly products. The low density and strength of this nanofiber can make automotive and other compo-

nents thinner, lighter, and more fuel-efficient. We expect the market for this nanofiber to expand in coming years because repeated molding and crushing does not weaken it, making it highly recyclable. We will keep helping to materialize a circular economy by leveraging proprietary technology to swiftly develop and market cellulose nanofiber composites.

Emi Sugata

Composite Materials Development Group, Engineering Plastics Development Dept., Performance Polymers & Chemicals Div.







UBE plans for the Pharmaceuticals Division to become a core Group business in life sciences. In drug discovery research, the division has accordingly embraced the challenge of developing small molecule drugs and creating such high-value-added offerings as antibody-drug conjugates. The objective of the contract development and manufacturing organization (CDMO) business is to establish a highly profitable structure by bolstering the existing small molecule drug field while expanding contract manufacturing for low-dose, high-potency

establish a highly profitable structure by bolstering the existing small molecule drug field while expanding contract manufacturing for low-dose, high-potency pharmaceuticals and obtaining production technologies for nucleic acid drugs and other new modalities. These considerations prompted UBE to strategically purchase all shares in 2022 of CDMO player API Corporation from Mitsubishi Chemical Group company Life Science Institute, Inc. We will keep expanding

our business, including through more acquisitions in existing business areas, while exploring ways to enter new life science business areas to reach our goals as a growth strategy business.

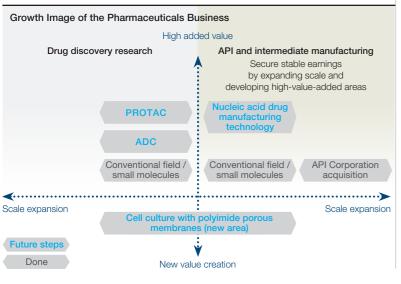
Yoichi Funayama Managing Executive Officer General Manager, Pharmaceutical Div.

Business Overview and Features

The Pharmaceuticals Division engages in drug discovery research and CDMO operations. While operating independently of each other, they maintain business models unique to a chemical manufacturer in that we can draw on their dual capabilities to generate synergies as we need.

The drug discovery research business creates candidate compounds for active pharmaceutical ingredients (APIs) that we license to pharmaceutical manufacturers at preclinical stages. It also undertakes joint research and development to bring new drugs to market.

The CDMO business creates APIs, intermediates, and investigational drugs based on the contract with pharmaceutical manufacturers. It maintains stable supplies of high-quality offerings and provides development solution services, including to create manufacturing processes and optimize existing ones.



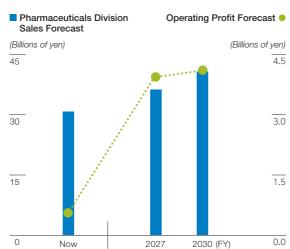
Social and Market Analysis

Despite declining populations in Japan and some other developed nations, demand for advanced medical care is expected to grow with society aging. On the contrary, in developing countries, fast population growth and rising economic standards should boost demand for pharmaceuticals.

Demand for drugs to treat cancers and rare diseases is expanding more than for lifestyle illness treatments. Nucleic acid medicines, biopharmaceuticals, gene therapy, and other new modalities are emerging to meet such needs.

Vision for 2030

We aim to generate stable royalty income from several drugs that we have developed. We also look to become highly profitable by doing more business in high-value-added fields, such as contract manufacturing for nucleic acid drugs, while entering new business areas in the life science field.



New Value Creation

Opportunities and risks

Opportunities

- Increasing demand for advanced medical care
- Growing need for stable supplies of top-shelf pharmaceuticals in developing countries

Risks

- Paucity of target molecules and increasing difficulty of first-in-class development in small molecule drug field
- → Standardize development priorities, strengthen open innovation, and leverage ecosystems to streamline drug discovery research

UBE's strengths

- Joint development with pharmaceutical manufacturers and proven record in drug discovery based on organic synthesis technologies cultivated over many years as a chemical manufacturer
- High-quality API manufacturing capabilities based on a variety of facilities, equipment, and advanced quality control systems that match setups in Japan, the United States, and Europe
- Solution services for manufacturing and developing APIs and intermediates, which have earned accumulated results

New value creation

 Help develop and manufacture new medicines and provide means to safeguard human health and lives from diseases

Growth Strategies

Drug Discovery Research Business

We will expand drug discovery targets by according top priority to clinical needs, developing such new modalities as antibody-drug conjugates and proteolysis-targeting chimera* and conventional small molecules to bolster our pipeline and swiftly launch products.

* A molecule with two active domains and a linker that can remove specific unwanted proteins

CDMO Business

The UBE Group will establish a highly profitable structure through action in several respects. First, we will leverage our production capacity, which is one of the biggest in Japan, to expand contract manufacturing of small molecule drugs. Second, we will maximize earnings from our fifth pharmaceutical plant, which manufactures low-dose, high-potency pharmaceuticals, and do more of our business in such high-value-added fields as nucleic acid drugs.

New Business Creation

We aim to enter new business areas in life sciences, focusing on cell culture systems using polyimide porous membranes.

R&D and Intellectual Property

Our CDMO business develops APIs for nucleic acid drugs. We are striving to streamline nucleic acid drug development. To that end, we are lever-

aging an investment in Luxna Biotech Co., Ltd., a venture company developing nucleic acid drugs based on a modified nucleic acid group that Osaka University developed. We are also joining RNA-targeted drug discovery technology development carried out by the Japan Agency for Medical Research and Development. While there are issues in developing and manufacturing bulk nucleic acid drugs, such as impurity control associated with increasing scale, we are striving to resolve these issues by collaborating more with equipment manufacturers to innovate.

Digital Transformation

We are accelerating drug discovery research by deploying chemo-informatics, optimizing existing processes with process informatics, improving efficiency by adopting automated operations, and exploring digital plants that provide data assurance.

Highlight

 Protecting biodiversity is the 15th of the United Nations' Sustainable Development Goals (SDGs).
 For this reason, in January 2023 Pharmaceutical Research Laboratory obtained Japan Pharmaceutical Information Center certification for maintaining appropriate animal welfare systems for animal testing. We will continue to properly supervise and manage all animal testing.

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 Building Value to Materialize Sustainable Growth Building Value to Materialize Sustainable Growth

R&D

The UBE Group has positioned R&D as a sustainable growth driver. It is accordingly transitioning to specialty chemicals and tackling environmental issues.

R&D supports the UBE Group's growth to materialize its Vision for 2030. Our mission is to develop technologies in order to transition to specialty chemicals and tackle environmental issues.

Our distinctive products derive from proprietary manufacturing processes that we have amassed over the years. Our offerings are outcomes from creative ideas and innovative production techniques, and perform better than counterparts from rivals. We seek to contribute to society by delivering value that helps resolve social issues. We will accomplish this by nurturing such proprietary technologies while collaborating with

other companies, universities, and research institutions to create new ones. We will keep developing technologies to overcome troubled todays and brighten tomorrows.

Masahiro Naiki

Executive Officer, General Manager, Research & Development Div.. with responsibility for development section and Intellectual Property Dept.



R&D Policies and Structure

The UBE Group is striving to transform its business portfolio, which is vital for long-term growth, by leveraging R&D to create new businesses and resolve environmental issues at core domestic sites in Ube, Sakai, and Chiba and at business sites in Spain and Thailand. Two particular challenges are to focus on specialty businesses and become carbon neutral. We therefore engage with prospective customers to offer unique solutions that integrate core technologies that have underpinned our chemicals business with the specific requirements of customers. We will provide materials matching social demands. We will do this by employing open innovation to build a technological edge, combining core internal technologies with external ones while digitizing processes as part of efforts to shorten R&D lead times.

Carbon-circulating society Nature conservation and restoration

Sustainability

- Circular economy:
- Waste carpet melt kneading, hydrothermal reaction
- Carbon neutrality:
- CO₂ electrolysis, bio-based polymers, silk proteins
- Nature positive:

Aquaculture feed additives, feed using insects, moisture absorbent for extracting water from the atmosphere

Global warming countermeasures

Life science

·····>

R&D for expanding the specialty

Promote development by thoroughly

leveraging strong technologies

Promote specialization and contribution to the

—.....

New R&D areas

global environment

business

 Biopharmaceuticals and regenerative medicine: Utilization of cell propagation technology

Advanced medical care

Regenerative medicine

Healthcare Food safety

- Pharmaceuticals: Drug discovery, contract development and manufacturing organization (CDMO)
- (APIs and intermediates) Organic solvent reduction: High-performance coatings
- Food packaging: Nylon copolymer

Clean energy Biogas: • Electrified vehicles (xEVs):

- Separation membranes
- (decarbonation) Solar cells: Polyimide
- Wind power: Ceramics (bearings)
- Separators, DMC for electrolytes (lithium-ion batteries), ceramics (substrates, bearings)
- Fuel cell vehicles (FCVs): Composites (hydrogen tanks), separation membranes (dehumidifying and humidifying)
- Weight-reducing materials: Composites, Tyranno Fiber®

Organic and inorganic synthesis technology, functional evaluation technology, nolecular and material design technology

Core Technologies Supporting Specialty Businesses

Distinctive Molecular and material design, functional technologies evaluation, and information technologies

Organic and inorganic synthesis, engineering, technologies polymerization, processing, catalyst, compounding, and quality and process control technologies

We will generate and deliver value that helps resolve social issues by drawing on proprietary technologies and innovative manufacturing capabilities that we have cultivated over our more than 120 years. Particular priorities are to use molecular and materials design technology based on customer requirements to design chemical structures and compositions, and functionally evaluate them. We will swiftly reflect feedback regarding these molecular and materials designs to provide brand new solutions to customers. Those customer requirements could include materials' heat resistance, strength, and recyclability or target biomolecule binding for pharmaceuticals.

Technology Strategy and Marketing Activities

Our R&D policy is pivotal to us as a manufacturer because technology is and will remain fundamental to our business. We formulate and review

xEV/FCV mobility innovation High-speed, high-capacity information transmission

Energy management

Heat-dissipating composite materials New bonding material

Prosperous future Digitalization

- Displays, circuit substrates: Polyimide
- Semiconductors: Resins for encapsulation materials

technological strategies to meet contemporary needs through marketing to create new themes and marketing for products created by the Research & Development Div.

We have established three key research domains. The first is life sciences, where we will focus on healthcare. The second is energy management, spotlighting energy efficiency in the automotive and electrical and electronics areas. The third will be sustainability, encompassing the circular economy, carbon neutrality, and nature positive. We will create specific R&D themes based on forecasts.

We will take stock of the core technologies that make us competitive in providing new solutions to customers. We will refine and clarify our technology portfolio and acquire new core technologies for the Group.

Key Examples of Specialty Chemicals R&D

Inorganic Materials Development

UBE offers top-notch inorganic materials with performance properties that differentiate them competitively. They serve largely in vital high-end applica-

Tyranno Fiber® tions. We must specialize increasingly as social needs change so that we can cater to demand niches. Promptly identifying and addressing key challenges with advanced materials is vital to our ongoing success. Society has demanded urgent action in recent years to cut GHG emissions and shrink environmental footprints. This situation has accelerated efforts to electrify automobiles and heighten engine efficiencies in such fields as passenger aircraft, where electrification is extremely difficult.

UBE is well positioned to overcome the performance and quality hurdles of such mobility transitions. We will continue developing materials to tackle these challenges.

High-performance ceramics, for example, result from eliminating foreign matter and defects that impede reliability. They serve for long periods of time under harsh conditions, including high voltages, high-speed scraping, and high temperatures requiring thermal efficiency. We will overhaul the manufacturing technologies that are our strengths while monitoring social issues and collaborating with customers to help resolve those issues.

 Building Value to Materialize Sustainable Growth Building Value to Materialize Sustainable Growth

Drug Discovery Research and Pharmaceutical Product Development

In recent years, drug discovery research and pharmaceutical product development with diverse discovery platform technologies have driven the commercialization of small molecule drugs and antibody drugs and other molecules. These have included nucleic acid drugs and gene therapeutics for commercial pharmaceuticals.

It is against this backdrop that UBE is expanding its drug discovery targets. One focus is small molecule drugs, four of which we have developed and launched in collaboration with pharmaceuticals companies. Another is for disease areas with pressing clinical needs. We are, for example, working on modalities to fully leverage our conventional small molecule drug discovery experience, such as with antibody drug conjugates and proteolysis-targeting chimera.

Such a conjugate comprises three components. They are an antibody, a therapeutic payload, and a linker that attaches the payload to the antibody. The antibody transports the conjugate payload to diseased tissues. Because of its molecular design, the linker efficiently cleaves and releases the payload from the conjugate in the tissues to which the antibody carries it. We aim to build a business model in which we create new conjugates by harnessing our expertise in small molecule drug discovery to design, applying linker and payload combinations to antibody drugs offering exceptional safety and efficacy.

Proteolysis-targeting chimera combines two functions and similarly has three components. These are a target protein binding site, a binding site for enzymes that degrade proteins, and a linker. UBE looks to make it feasible to target proteins that have been beyond the capabilities of antibody drugs, as well as small molecule compounds. We have started exploring this area as new drug discovery modalities in which we can leverage our experience with small molecules.

We will also pursue R&D in new modalities to bolster our pipeline and swiftly bring offerings to market.



Heat-Dissipating Composite Materials

The information economy has improved lifestyles with rapid increases in the performances of electronic devices and communication technology speeds.



Heat-dissipating

Work is progressing on advanced electric power networks in line with the renewable

energy uptakes. Thermal heat issues are becoming more apparent as these technologies go mainstream and information and telecommunications equipment and power control devices become more sophisticated, integrated, and miniaturized.

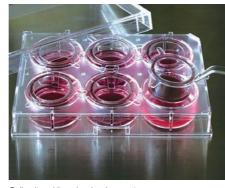
One solution for these issues is a heat-dissipating composite material for energy management that UBE developed with Akane Co., Ltd., in Hiroshima. This material's thermal conductivity is three-fold that of aluminum nitride for heat-dissipating substrates and is roughly double that of copper. Its low thermal expansion coefficient could offer good bonding with advanced semiconductors. Another advantage is that its specific gravity is just one-third that of copper, which makes it possible for manufacturers to reduce the weight of their products. We are commercializing such composite materials based on the world-class thermal conductivity of our materials.

3D Cell Culture

Biopharmaceuticals come from the protein-producing capabilities of cells, microorganisms, and other living organisms. The emergence of biopharmaceuticals has fostered the development of drugs that can combat diseases that have been hard to treat. The quality of biopharmaceuticals is difficult to control, as they result from cell metabolisms that change in varying external environments. The slightest difference in manufacturing process conditions can drastically transform quality. These drugs are thus extremely expensive, which is a social issue.

UBE's proprietary 3D cell culture substrates overcome these issues because they stabilize

long-term animal cell cultivation. We are researching and developing a proprietary biopharmaceuticals production process. We are working on a prototype cell culture kit to make exosomes and



Cell culture kit under development

therapeutic antibodies on small scales for testing among diverse industry players.

Progress in Developing CO₂ Capture and **Utilization Technologies**

CO2 emissions are a global problem. It is necessary to innovate technologies that position these emissions as resources and tap them effectively.

Long-term studies are necessary to develop chemically stable CO2 utilization technologies needed to become carbon neutral. UBE is collaborating with universities, research institutions, and other companies to develop such technologies.

Polycarbonate Diol Employing CO₂

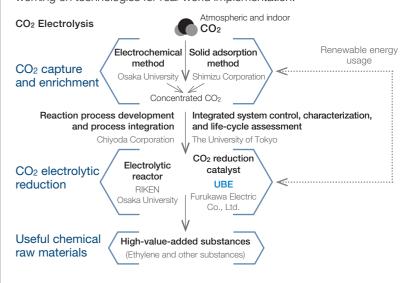
Polycarbonate diol is an essential intermediate for highly durable polyurethanes. UBE manufactures it in a multistep reaction process that uses carbon monoxide and other substances.

Osaka Metropolitan University, Nippon Steel Corporation, UBE, the University of Tokyo, Kyoto University, and Tohoku University have together embarked on an initiative to develop a one-step synthesis process for polycarbonate diol from CO₂. This effort is part of a project that the New Energy and Industrial Technology Development Organization (NEDO) commissioned. It is called Development of Technologies for Carbon Recycling and Next-Generation Thermal Power Generation/Carbon Recycling and Next Generation Thermal Power Generation Technology Promotion Project/Development of Common Basic Technology for Carbon Recycling Technology.

UBE will evaluate quality and suggest improvements to processes to pave the way to commercialization and help achieve carbon neutrality by 2050.

CO₂ Electrolysis

UBE is collaborating with industry, academic, and government bodies in a project in NEDO's Moonshot R&D Program, called Integrated Electrochemical Systems for Scalable CO₂ Conversion to Chemical Feedstocks. The project aims to develop an integrated electrochemical system that captures and enriches atmospheric emissions of diluted CO2 with physical and chemical techniques, and then converts it to chemical feedstocks such as ethylene with renewable energy. We are creating electrode components that very efficiently reduce CO2. We will continue working on technologies for real-world implementation.



Talent Development Initiatives

As well as R&D, creating new businesses entails understanding entire processes through commercialization. We are developing people who can set up new businesses by having them gain experience outside R&D, rotating them to other divisions and seconding them to other companies.

Employee message



I focused on materials research after joining UBE but wanted to be capable of creating new businesses. So, I requested a secondment to Refinverse Group, Inc. to learn about sales and business development. There, I interviewed and presented solutions to companies engaged in circular economy initiatives. Beyond these marketing activities, I also developed biomaterials businesses tapping unutilized resources.

Keisuke Kuroishi

Seconded to: Refinverse Group, Inc. Business Development Dept. Now: Technology Marketing Group, Research & Development Div. of UBF Corporation

I will draw on that experience to create new environmentally friendly businesses at UBE.

Before secondment, I was keenly aware of how hard it would be to launch new businesses. I wanted to transfer to a venture capital firm to broaden my perspectives beyond in-house walls. My primary role is to start companies based on academic technology seeds. I am learning a lot about investment practices and about the philosophies that are essential to establish and grow new businesses and make them Yuji Hirai succeed. After returning to UBE, I look to apply this mindset to deliver results.

Seconded to: Universal Materials Incubator Co., Ltd.

UBF Corporation

Intellectual Property

Basic Policy and Structure

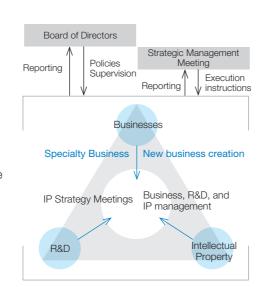
Basic Policy

We will gain a sustainable competitive edge in our specialty chemicals business by having our business, R&D, and IP departments collaborate closely in IP initiatives.

Structure

For the specialty business, these three departments hold IP strategy meetings. There, they discuss IP acquisitions and progress with investments in that area to ensure initiatives are on track.

Regular reports on overall IP activities go to the Strategic Management Meeting and the Board of Directors. They issue instructions on and supervise policies and execution approaches for IP efforts.



IP Initiatives under the Current Medium-Term Management Plan

Under UBE Vision 2030 Transformation —1st Stage, our current medium-term management plan, our vision is to become a corporate group centered on specialty chemicals that contributes to the global environment, human health, and an enriched future society. We will help achieve our vision by taking several steps in the IP arena. One will be to disseminate useful information and make proposals by tapping patent search and other digital tools. Others will be to build a patent portfolio relating to specialty chemicals and environmentally friendly products and technologies, enhance Group IP governance, and bolster specialist talent. Details are as follows.

1. Build an IP Portfolio

It would be impossible to build a specialty chemicals business without IP. We are building a portfolio for that property that matches the nature of each specialty chemicals business. Specifically, we are amassing the patents we hold and the strategies we are using to reach business targets under our Vision for 2030. We will draw on IP information through patent maps*1 and IP land-scapes*2 to identify new issues for resolution, new applications, and prospects for alliances with other companies.

For new inventions, our application review council assesses their essences and patentability

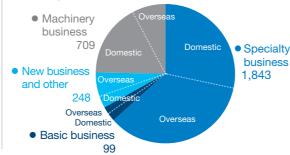
and determines the scope of rights in view of the supply chain and future implementation approaches. By deciding appropriately on whether to keep information open or closed, we seek to sufficiently safeguard our technical achievements, establish high barriers to entry through IP, and build a sustainable competitive edge for our businesses.

Utilization Strategy Examples

	Number of patents		Other company focuses	Responses
А	0		0	Current mainstays →Maintenance measures
В		\circ	\circ	Focus→Build portfolio
С			\bigcirc	Licensing
D				Divest and sell

The R&D and Intellectual Property part of the Growth Strategies of Specialty Chemicals section on page 24 presents progress with specialty

Number of Registered Patents by Portfolio (As of April 2023)



Glossary

chemicals R&D. We are pushing ahead with timely patent applications and rights acquisitions.

The number of registered patents is as shown on the left. We will increase the proportion of new and specialty chemicals patents.

2. Strengthening IP Landscape Efforts in R&D

Through R&D stages leading to commercialization, we research and analyze IP information and supply insights to the Research & Development Division about technological trends and competitor activities.

By tapping IP information from early R&D stages, we help develop themes, explore new businesses, and create collaborative partnerships.

3. Patent Clearance

We endeavor to respect the IP rights of other companies as we do our own. We accordingly do our utmost to conduct patent clearance searches and minimize business risks in existing businesses and at the commercialization stage in R&D.

4. Group IP Management

Collaboration between IP personnel at UBE Group companies enables us to handle the Group's inventions, supply IP information, and drive progress in IP management.

5. IP Human Resource Development

We foster a culture that emphasizes and respects IP by enhancing IP literacy.

We provide IP education by conducting Companywide programs that we tailor to new employee, general worker, and management levels. We also educate departmental information management personnel about trade secrets.

We look for specialists from the Intellectual Property Department to be proposal approach oriented to contribute extensively to R&D, business, and management by leveraging IP information and experience in applying for and obtaining patents.

We encourage employees to obtain external qualifications relating to IP, such as by becoming patent attorneys, acquiring IP skill certifications,

and becoming IP analysts. We had four qualified patent attorneys as of March 2023.

Brand Tagline Trademark Applications

UBE Industries, Ltd., renamed itself UBE Corporation in April 2022.

UBE has long maintained and managed trademark rights to the UBE logo. In view of the renaming, we developed the Transform Tomorrow Today tagline and applied for trademark registration in Japan and abroad for the combined trademark and tagline. We are in the process of acquiring these rights.



Inventor Incentives

In line with employee invention rules, we incentivize inventors upon applying for, registering, and implementing patent protections. At UBE Group R&D briefings, we honor inventors of patents that have contributed significantly to our business. Such recognition motivates inventors and encourages them to pursue further advances.

In fiscal 2022, we presented awards to inventors for patents in the polyimide and pharmaceuticals areas of our specialty businesses.



Message from outside counsel

I have served as representative for the UBE Group in its IP practice for more than 20 years. The Group holds many specialty chemicals patents. We endeavor to secure rights not only to fundamental technologies but also to such related technologies as manufacturing techniques and applications so that UBE can maintain its competitive edge in the specialty chemicals sector for many years to come.

I look forward to collaborating closely with internal teams and representatives to bolster UBE's IP network, thereby contributing to its progress as a specialty chemicals company.

Kazuya Senda

Representative Partner of Kisaragi Associates The former Vice-President of Japanese Patent Attorneys Association Daini Tokyo Bar Association Counselor at Law and Patent Attorney



^{*1} A patent map is a visual representation from collecting, analyzing, processing, and organizing patent information into charts, graphs, and other visual information.

^{*2} IP landscape is an analysis of management and business information incorporating IP information in formulating management and business strategies and sharing results (including overviews of current situations and prospects) with management and business leaders.

Business Transformation with Digital—Transforming Our Business with Digital Technology— Digital Transformation Strategy

Our vision is to become a corporate group centered on specialty chemicals that contributes to the global environment, human health, and an enriched future society.

We have accordingly committed ourselves to collaborating with stake-holders to create new value by leveraging technology and innovation to digitize and overhaul business processes.

Yuki Nishida

Senior Managing Executive Officer
Assistant to the President, General Manager,
Production & Technology Div. and DX Promotion
Office, with responsibility for Information
Systems Dept. and C1 Chemicals Project

Our Digital Transformation Approach

In fiscal 2022, we launched the first stage of UBE Vision 2030 Transformation to focus on growth in specialty chemicals and contribution to the global environment. One of our basic policies and priority measures is to enhance corporate value and create customer value through such a transformation. It is important to emphasize that our digital transformation push goes well beyond conventional approaches. Our strategy is to deploy digital transformation so our businesses can accelerate our specialty chemicals growth and environmental

Basic Digital Transformation Policy under the Medium-Term Management Plan

Enhance corporate value and create customer value by pursuing digital transformation

- Develop digital talent
- Improve operational efficiency and productivity by using digital technology
- More swiftly create new customer value and businesses

contributions. We will enlist all employees and operational domains in transforming our business. It is against this backdrop that we are refining our digital transformation strategy by establishing roadmaps for eight themes while sharing insights and knowledge in boldly and swiftly executing these strategies.

Our Eight Digital Transformation Themes

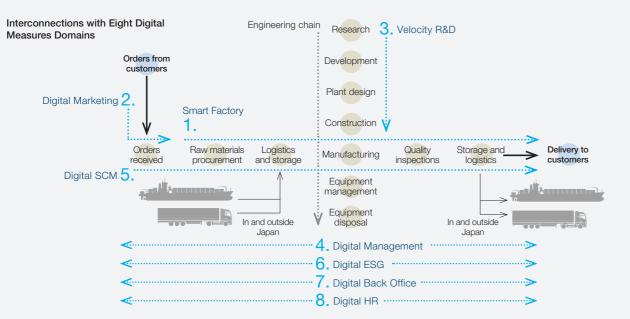
We formulated these themes to drive digital transformation advances.

1. Smart Factory

We will use AI to harness the massive data resources of our factories. We will work to make these facilities smarter in several ways. This could include tapping AI to stabilize and streamline operations and managing facility data to predict and avoid equipment failures.

2. Digital Marketing

We are supporting sales and marketing with customer relationship management and salesforce automation platforms. We will clarify customer relationships and information across all businesses to drive cross-selling. We will draw on the data we



acquire in these processes for marketing and production planning.

3. Velocity R&D

One development goal is to digitize data from experiment notes and other paper data and incorporate it in materials informatics, which uses information science techniques to accelerate efforts to enhance development efficiency. A second objective is to build an IP landscape to bolster our strategy in that area. We will draw on that setup to pursue acquisitions and explore new businesses beyond current divisional boundaries.

4. Digital Management

We will manage performance by digitizing processes to streamline settlements and make budgeting more precise. We plan to deploy the SAP S/4 HANA enterprise resource planning platform in 2024 so management can become more data-driven, using real-time information dash-boards to make decisions.

5. Digital SCM

We will link our supply chain to our smart factory and digital marketing themes. We will digitally manage our supply chain in everything from raw materials procurement planning through production and sales planning and later stages. Such an integrated and systematic approach would enable us to reinforce our supply chain as a specialty chemicals company.

6. Digital ESG

We will use digital processes to develop environmentally friendly products and manage information on GHG emissions including Scope 3 to safeguard the environment.

7. Digital Back Office

We will enhance back-office operations by adopting standard business processes based on total quality management, a companywide unified quality control initiative to improve quality.

8. Digital HR

We will do much more than simply develop digital talent. We will clearly identify the technology innovators, marketers, and other individuals we need to drive our specialty chemicals growth. We will also present career paths to young people and help older employees to reskill.

We have assigned executives to oversee these themes to digitize operations from management

perspectives. We established a program that partially links executive compensation to progress in those themes to help make our digital drive more effective.

Attracting and Developing Digital Talent

We employ the Innovator Theory model in seeking to secure and develop individuals, of whom 2.5% are innovators and 13.5% are early adopters. We currently have approximately 60 innovators and 300 early adopters, which is basically on target in view of the size of our workforce. We additionally develop digital talent by offering learning about digital transformation at the Plant Operation Technology Training Center, which is part of the Production & Technology Division. Through such efforts, we believe that innovators and early adopters can systematically cultivate digital technology experts who can help us progress in specialty chemicals while spreading knowledge Companywide about digital processes.

Business Division-Led DX Promotion Office

In April 2022, we established the DX Promotion Office. I head that entity, which spearheads UBE's digital transformation strategy, including through initiatives described earlier. IT departments oversee digital transformation efforts at most companies. In contrast, this office comprises more than 60 employees in their 20s to 40s whom it secured from business divisions, factories, laboratories, and headquarters departments.

Although the office has only operated for around a year, it has underlined President & Representative Director Masato Izumihara's confidence that UBE will become a specialty chemicals company. He is keen to leverage digital transformation to foster a new business model for UBE. We have progressed significantly in the past year, doubling the number of digital transformation themes to eight and bringing more digital natives to the fore.

While frankly a late-starter in digital transformation efforts, UBE has learned much from the experiences of many other companies, fueling its fast progress in this respect over the past year. We have pledged to all stakeholders that we will keep pressing ahead in digitizing our business processes until we reach our goal of transforming our organization. We will draw on the digital literacy of all employees and overhaul their capabilities in a drive to deliver new value for customers and the economy.

 Building Value to Materialize Sustainable Growth Building Value to Materialize Sustainable Growth

Excerpt from Theme Roadmaps

For all themes, we created the following roadmaps to systematically digitize our business processes.

Roadmap: Smart Factory

Reduce person-hours through automation and efficiency, and improve profitability through sophistication

	Establish foundation	Establish highly efficient business model	Global collaboration	acceleration of effect maximization
	Step 1 (FY2022–FY2023)	Step 2 (FY2024–FY2025)	Step 3 (FY2026–FY2027)	Reduction of
Activity categories Data-driven factories Operational upgrades	Data-driven factory operations Build infrastructure and deploy at model plants (in Ube)	Evolve and expand data-driven factory operations (in Chiba and Sakai)	Globalize data-driven factory operations (by collaborating with overseas plants)	person-hours
Operations	Standardize operations, employ AI in operations, and establish operational data infrastructure	Tap data to create highly efficient operational model Base plant operations and decision-making on real-time information	Global collaboration Global operations	
Facilities	Digitize on-site equipment Standardize facilities management	Expand automation Switch to prediction-centric facilities management	Attain data-driven facilities management Global collaboration	

Roadmap: Digital Marketing

Expand revenues by changing marketing approach and cut work hours by streamlining processes

Build platform incorporating foundations and leading businesses Step 1 (FY2022-FY2023)		Deliver customer value faster Step 2 (FY2024–FY2025)	Accelerate specialization Step 3 (FY2026-FY2027)
Activity categories Sales	Visualize sales data and processes Companywide (Eliminate information asymmetry) Reskilling	Transition to marketing approach based on data-driven market and application approaches (Develop markets and applications relating to UBE's businesses)	Create a sales model that optimizes revenues for UBE overall (Cultivate markets and applications beyond UBE's businesses)
Marketing	Establish marketing platform through businesses that lead in specialty areas (Understand and analyze customers' purchasing processes)	Undertake marketing to develop new markets and applications (Better understand customers and markets)	Draw on internal and external data to engage in theoretical needs-driven marketing

Expand

Profit

Continuous

Continuous acceleration of effect maximization

Digital Transformation Investments and Returns

Investments in fiscal 2022 through fiscal 2030 Approx. ¥20 billion

(Under current medium-term management plan, approx. ¥10 billion, including to deploy S/4 HANA platform)

Returns: Estimated profit contributions of digital

Gradually accruing from fiscal 2024, reaching approx. ¥30 billion in fiscal 2030

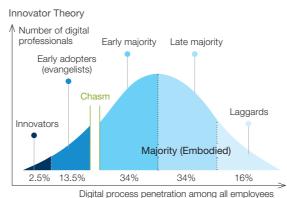
Developing Digital Talent

We offer group and practical training, e-learning, correspondence courses, and assistance for securing qualifications by job level in line with the digital talent profiles that we have defined.

Encouraging All Employees to Acquire Digital Literacy Skills and Mindsets



Digital Talent Development (Workforce percentages)



	Fiscal 2022 results	End of fiscal 2024 targets
Innovators	2.7%	2.7%
Early adopters (Evangelists)	10.5%	13.5%
Majority (Embodied)	_	83.8%

Success Story

Leveraging AI to Detect Anomalies: Smart **Factory Theme**

Distributed Control Systems centrally monitor chemical plants. They constantly track more than 1,000 instruments at some larger facilities. The number of instruments that operators monitor has increased in recent years, but human monitoring is reaching its limits. UBE has accordingly harnessed machine learning and Al image recognition technologies to make anomaly detection more accurate.

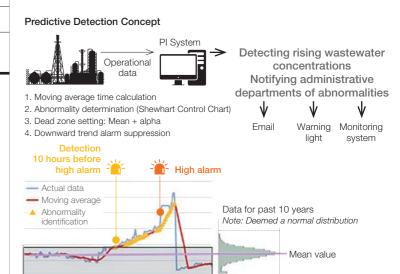
In one case, we deployed this recognition technology to automatically detect abnormalities in product packaging. One internal strength that we can leverage here is that we employ general-purpose software to collect images for recognition and program applications in-house. We have thus been able to eliminate all abnormalities without incurring outsourcing expenses.

Results of Abnormal Packaging Detection Testing with Al Image Recognition



Data Monitoring-Based Predictive Detection: Smart Factory Theme

Detecting abnormalities at plants prevents problems from occurring. We deployed our Plant Information Management System for that reason in the late 1990s. The system generates huge volumes of empirical, quality, and other digital data related to manufacturing at each plant. In monitoring impurity concentration of plant's wastewater, we adopted trend monitoring, which statistically processes data for the past 10 years and factors in abnormality probabilities. This setup has enabled us to detect these issues at early stages, even where such situations would not have normally triggered alarms, when concentrations of abnormalities gradually increase. The system notifies the person in charge by email and warning lights as soon as it detects an aberration.



Dead zone

■ Building Value to Materialize Sustainable Growth
 ■ Building Value to Materialize Sustainable Growth

Three-Way Discussion about Talent Strategy to Expand the Specialty Chemicals Business





Talent Strategy to Expand the Specialty Chemicals Business

The UBE Group is pushing to transform its businesses and the Company as a whole to drive growth in specialty chemicals. An institutional investor with expertise in ESG investments, a director spearheading UBE's human resources strategy, and an outside director sat down to exchange views on bolstering the talent underpinning the Group's growth.

What is your basic approach to strengthening human resources to drive growth, particularly in specialty chemicals?

Tamada: We aim to become a corporate group focusing on specialty chemicals by 2030. We are overhauling our business structure and reinforcing our earnings base under our current medium-term management plan. We consider it vital to spotlight people as part of these specialization efforts. One of my focuses is its linkage with a promotion of digital transformation in the plan.

I discussed this with Yuki Nishida, a senior managing executive officer, who oversees digital transformation. We agreed that the human element will ultimately determine the success or failure of these efforts and their creative impact.

Given that digital transformation will be a prime driver in our specialty chemicals growth, I believe that there are two current priorities. One is to develop experts who can build our technological prowess in that field. The other is to combine

those capabilities with each theme of the digital transformation measures.

Suzuki: While I sense that UBE's current workforce finds it hard to adapt to changing times, I do appreciate that it greatly understands its purpose and social roles, as it endeavors to create products that benefit others. Also, I think it is important to explore ways to link personnel policies to non-financial and financial metrics. We should additionally consider how these policies can have a positive impact on financial figures.

Watanabe: I calculate a company's intrinsic value as an institutional investor. I focus on three critical value components. These are ROE, profit growth rates, and cost of capital.

It is in that context that recognizing the continuity and scalability of human capital in IP, R&D, and other aspects of the foundations for profit expansion enables us to project long-term profit growth and calculate lower cost of capital. A company's intrinsic value thereby increases.

While it is challenging to properly evaluate human capital, you have to do this in seeking intrinsic value. So, I look for UBE to go beyond mandatory requirements and comprehensively disclose information, including the significance of KPIs and strategies relating to personnel.

How do you think addressing gender gap and other DE&I initiatives connect to UBE's growth as a specialty chemicals company?

Tamada: While the UBE Group lags others slightly in some aspects of DE&I, we do not set KPIs just to tick boxes. Progress in these respects, including gender equality, is essential in securing diversity of decision-making. Ensuring diversity is essential for us to progress in specialty chemicals and overhaul our business structure. In view of the prospective benefits of diversity, the UBE Group is endeavoring to increase the ratio of women for generalist positions, mid-career postings, and non-Japanese employee hiring.

Suzuki: We realize that we need to do more than just base measures on existing social systems and rethink things from zero-based perspectives. By 2050, for example, diversity may be fully integrated into workplace culture, with our focus shifting to exploring the future of work in that era.

I believe that diversity is essential for us to become a specialty chemicals company. In a recent Audit & Supervisory Committee visit to a European subsidiary, it was gratifying to see that many of its researchers are women. Still, there is room to advance DE&I by improving communication within the Group.

Yuji Watanabe

Chief Analyst (Materials Sector) Active Fund Management Department II Daiwa Asset Management Co. Ltd.

Became an analyst at Daiwa Asset Management in 2006 after working at a bank, where he worked in lending. Was seconded to an investment advisory firm and engaged in asset management, then moved to venture capital at an operating company.

Committee Member of IR Award of Japan Investor Relations Association

Member of Corporate Disclosure Study Group (Chemicals and Textiles) of The Securities Analysts Association of Japan

Watanabe: I get the impression from what you said that you have a clear vision for the future, that you have set KPIs as stepping stones and have a strong DE&I consciousness. It is important for DE&I within the UBE Group to always connect its specialty chemicals drive with gender equality and diversity.

As your specialty chemicals efforts make technology and IP more important, it will be vital for you to retain the people in your talent pool, regardless of gender. One of the things I benchmark in assessing chemical companies is the proportion ratio of women in R&D. I believe that DE&I will play a major role in UBE becoming a specialty chemicals player. As well as meeting mandatory disclosure requirements about personnel in its annual securities report, I believe the UBE Group can fulfill its commitment to DE&I by highlighting its distinctive initiatives in that regard. I hope that it will focus on such areas.

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■ Building Value to Materialize Sustainable Growth
■ Building Value to Materialize Sustainable Growth

Tell us about the UBE Group's stance and initiatives for recruiting and career development and its compensation structure as it progresses with DE&I.

Tamada: For the compensation system, we have committed to increasing starting and base salaries as a matter of course. We used to hold performance evaluations and career development interviews at around the same time. We now stagger them to devote sufficient time to meaningfully discuss career development with people. We began formulating succession plans for executive officers and executives from 2016 and 2017, respectively. Down the track, we will focus on how to encourage more female employees to become part of succession planning and increase the number of candidates for this.

Watanabe: Recruiting, career development, and assessments are as important as I noted with DE&I in UBE becoming a specialty chemicals company. When striving to improve talent, companies often emphasize providing attractive compensation packages. As an investor, however, I would like you to not simply boost pay but also link it to per capita earnings and other productivity outcomes. To secure sustainability, assessments and compensation need to be managed in this regard.

Suzuki: The financial principle for investing in people is multiplying time and unit cost, or quantity by quality. As such, I think UBE needs to reconsider some aspects of conventional concepts in striving to become a specialty chemicals company. Investors have long discussed whether to include human capital on the balance sheets. After hearing what Mr. Watanabe had to say, I realized we also need to assess outcomes from investing in talent. People tend to discuss ESG factors abstractly. But we need to quantify and evaluate them as much as possible.

Tamada: We will keep considering how best to enhance corporate value in pushing forward with our human resources policies.

How do you secure and develop talent for R&D and IP which are so crucial to UBE becoming a specialty chemicals company?

Tamada: A key current priority for the UBE Group is how to strengthen marketing and technical capabilities. With IP, for example, we have

had successes with specialty products stemming from close collaboration with people involved, including up to licensing stages. Also, we look to strategically tap the IP landscape to determine areas we should enter and build our presence. We need diverse ideas to think of new products. Accordingly, I believe that R&D should embrace diversity. We have to attract and develop specialty chemicals experts. Women account for roughly 17% of employees in our Research & Development Division, Pharmaceutical Research Laboratory, and Intellectual Property Department. We will keep presenting clear information to employees about talent requirements and career paths. At the same time, we will attract and develop people with expertise in R&D and IP, which are essential for us to grow as a specialty chemicals company.

Suzuki: Even highly specialized knowledge can fast become obsolete in this era of rapid change. We must constantly build highly skilled teams that align with contemporary demands. We believe that instead of relying on conventional processes that cultivate cookie-cutter skill sets, we have to focus on acquiring highly specialized talent from outside. This may entail taking bold steps, including to overhaul our compensation structure. On the downside, such people typically move around. They may often leave for opportunities elsewhere. As certified public accountants, we understand that contributing to society underpins our profession. We naturally understand that motivation to attract people for high-level research positions is to create products that benefit others. It is equally important to develop a talent strategy that appeals to individuals wishing to join the UBE Group to make meaningful impacts and contribute to society.

Watanabe: We tend to associate R&D and IP with outcomes from people. But as Ms. Suzuki reminded us, we must always remember that what individuals can offer society is inspirational. I find it encouraging that there are such opinions among Board members. And because technology underpins success in a chemicals company, I think it is important to first clarify the R&D strategy and create an environment that attracts and retains people who share that vision and play an active role in the Company. A solid IP strategy is important for the same reason.

Tamada: We have to align management and human resources strategies. We cannot become more productive if we don't integrate strategy, organization, and the actions of our people.

We plan to engage in extensive discussions with our R&D and IP directors and reassess the Human Resources Department's role while remembering business strategy perspectives.

How are you progressing in acquiring and developing the digital talent you need to grow as a specialty chemicals company?

Tamada: We are leveraging the Innovator Theory in focusing on cultivating digital experts in-house. We are starting out in that respect by cultivating trailblazing innovators and early adopter evangelists. We are in the initial stages of that approach, and ultimately look for all of employees to become implementers.

Suzuki: While this effort has only just gotten underway, a suitable sense of urgency seems to be driving action. I think there is a close correlation between digital transformation and diversity. As the areas that digital transformation and people handle become clear, ensuring diverse perspectives among people will be extremely important.

Watanabe: Shareholders and other investors and other external stakeholders broadly recognize that digital transformation strategy is important. Still, it is difficult to determine whether the details of that strategy are suitable for the company. I want the UBE Group to clearly indicate whether the strategy will help increase productivity, make it more competitive, or foster new businesses. Also, it might take time for digital transformation to fully bear fruit, but even if small but positive impacts result, I would like UBE to disclose them. That will instill confidence in external stakeholders watching progress with digital transformation investments.

Note: Please see pages 42–45 for information on attracting and developing digital talent.

Finally, please share your challenges in bolstering talent.

Tamada: The UBE Group's prime human resources strategy is that in order to foster a more innovative corporate culture in which employees can take control of their own careers, we will identify gaps in the required skill-sets of our employees and offer the appropriate training and career paths as necessary steps in attracting diverse talents and those who will contribute towards our focus on specialization. The challenge will be how best to share this strategy across the organization.

Our efforts will naturally encompass our digital transformation and human resources portfolios, which we would like to strategically combine or clarify and present to all of our employees. On top of that, I think we need to review our talent profile so it relates more to employees so they can embrace it as their own. We look to extensively discuss our strategy and talent profile and match them to the aspirations of each employee.

Suzuki: To add to what Mr. Tamada just said, it might be worthwhile to discuss UBE's vision and role in view of such factors as environmental and social conditions in 2050 and work out how to secure and develop the people we need to fulfill that role. We must also reconfirm the objectives of a series of initiatives. We have to ensure that outcomes align solidly with those aims. Quantifying and measuring results will be crucial to communicating effectively with investors about our progress and achievements. In the same vein, I think we should flesh out specifics about diversity, including with regard to gender equality, the sort of innovative corporate culture we need for specialty chemicals, and when we can attain our cultural goals in this era of accelerating change.

Watanabe: Finally, I must share a candid observation. The UBE Group's people do not seem to be very productive in terms of management index from the perspectives of shareholders and other investors. UBE will have to demonstrate that the human resources strategies you are considering will drive improvements. Amid upheavals that will accompany UBE's focus on specialty chemicals, you will have to work out how you can increase employee interest and motivation about such changes. We cannot do too much in that regard. The stock market seems to want the UBE Group to accelerate efforts to reform its business and human resources structures. We look for the Group to tackle those challenges.



Fostering Talent to Achieve Corporate Growth

We have made diversity, equity, and inclusion (DE&I) central to attaining our Vision for 2030 goals. We will foster innovation by integrating diverse technologies, knowledge, and perspectives to expand globally and create new value. We will also endeavor as a group to enhance work engagement.

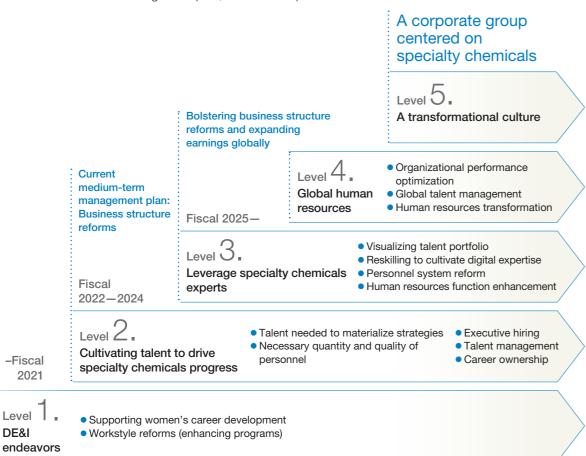
We will define and execute a management strategy-aligned human resources strategy to become a specialty chemicals company.

Hideo Tamada Representative Director, Senior Managing Executive Officer, CRO, CCO, in charge of Risk Management Dept., Human Resources Dept., General Affairs Dept., and Legal Dept.



Talent Strategy for Becoming a Specialty Chemicals Company

We have formulated a five-level talent strategy to undertake initiatives that drive our transformation into a company focusing on specialty chemicals. We are accordingly recruiting and training talent under our current medium-term management plan, which corresponds to Level 2.



UBE's Talent Strategy

In order to foster a more innovative corporate culture in which employees can take control of their own careers, we will identify gaps in the required skill-sets of our employees and offer the appropriate training and career paths as necessary steps in attracting diverse talents and those who will contribute towards our focus on specialization.

Our DE&I Policy

-Fiscal

Level

DE&I

2021

Because we aim to become a specialty chemicals company, we know that we have to integrate diverse technologies, expertise, and perspectives to foster innovation so we can overhaul our corporate culture and drive that transformation. We are

accordingly fostering gender equality, stepping up recruiting of talented individuals who can hit the ground running, and improving job satisfaction by reviewing our work structure for senior employees. We are also broadening career opportunities for individuals with disabilities.

We conduct surveys and enhance opportunities for dialogues to better understand the needs of individuals while expanding our support programs. This is because we prioritize equity and want our people to flourish. We consider it important for managers to be more inclusive leaders so diverse employees can harness their talents and do well. We thus train managers to enhance their career interview skills, better understand work-life balance programs, and ensure psychological safety in workplaces.

Providing Greater Opportunities for Women

We are aiming to attain gender equality, which is a top priority, by setting targets for the percentages of women in management positions and in our workforce. We encourage female employees to be involved in decision-making by increasing the number of female line managers and to take part in recruiting and promotion interviews to reflect diverse perspectives. We recognize that women tend to undertake more unpaid work to care for their families, which impedes their career advancement. We thus provide e-learning about unconscious bias and endeavor to cut total working hours while expanding work-life support programs

for all employees. We additionally encourage men to take parental leave.

Shortages of women with science, technology, engineering, and mathematics skills are a social issue. We strive to increase the number of female employees with such proficiency by collaborating with educational institutions and neighboring businesses. One initiative in which we take part in this regard is a Yamaguchi University consortium to accelerate diversity.

Wage gaps between men and women (Parent company)

Category	(Ratio of female to male wages)
All workers	78.8%
Regular workers	79.4%
Contract workers	55.8%

- Disparities come from underrepresenting women in management-level regular and contract worker positions, so we are striving to hire and advance them.
- Many women in regular worker positions do not do shift work, leading to wage gaps from not getting shift and late-night allowances.

Priority Measures (FY2024 Targets)

1 Providing greater opportunities for women Percentage of women in the workforce: 15% Percentage of women in management positions:

2 Mid-career hires and non-Japanese national hires

Percentage of mid-career hires (Generalist positions): 50% or more*

Non-Japanese national hires (Generalist positions): Multiple people*

- 3 Introducing specialist system, hiring highly specialized mid-career recruits, and enhancing measures for rehired retirees
- 4 Creating comfortable, motivating workplaces, and increasing employee satisfaction

Percentage of male employees taking childcare leave: 100%*

Average childcare leave taken: 15 days (Average FY2022-FY2024 (Parent company)) Total hours worked: 1,900 hours (KPI for FY2025 (Parent company))

Progress (FY2022 Results)

1 Providing greater opportunities for women

Percentage of women in the workforce: 14.4% (FY2021) ⇒ 15.0% (FY2022)

Percentage of women in management positions: 3.3% (FY2021) ⇒ 4.1% (FY2022)

2 Mid-career hires and non-Japanese national hires

Percentage of mid-career hires (Generalist positions): 37.3% (Consolidated basis in Japan) 40.0% (Parent company) (FY2022)

Non-Japanese national hires in new graduate recruits (Generalist positions): Two (Consolidated basis in Japan) Two (Parent company) (FY2023)

- 3 Increased timely recruitment of highly skilled and workready personnel in line with business strategy, and revised re-employment system for rehired retirees based on surveys and opinion exchanges.
- 4 Creating comfortable, motivating workplaces, and increasing employee satisfaction

Under the Certified Health & Productivity Management Outstanding Organizations Recognition Program, one Group company has been selected as a Bright 500 company, and seven Group companies have been recognized as excellent corporations.

Percentage of male employees taking childcare leave: 97.2% (FY2022)

Average childcare leave taken: 10.1 days (Parent company)

* Partially revised indicators from when formulating the medium-term management plan

Double mid-career recruiting ratio for generalist positions to more than 50% to secure more highly talented and work-ready people to align with transformation into a specialty chemicals company

Increase the percentage of non-Japanese nationals hired for generalist positions from a target of more than 5% to commit to expanding multiple individuals (lift recruiting to overhaul corporate culture through DE&I efforts and global business expansion) Percentage of male employees taking childcare leave: More than 75% ⇒ 100% (FY2022 result: 97.2%)

● Building Value to Materialize Sustainable Growth



Recruiting Specialists

We have committed to hiring diverse people to become a specialty chemicals company that contributes to people's lives and health and an enriched future society. We systematically hire new graduates and experienced individuals while recruiting non-Japanese nationals.

In fiscal 2022, mid-career professionals accounted for 37.3% of hires for generalist positions in Japan on a consolidated basis. This resulted from efforts to strengthen timely recruiting and secure specialists with immediately deployable capabilities in line with our business strategies.

We doubled our target percentage for mid-career generalist hires to at least 50% for fiscal 2024 under our medium-term management plan. We will keep recruiting specialists.

Hiring Breakdown (Parent company)

	Number of People (Number of women in parentheses)		
Fiscal Year	2020	2021	2022
New graduate hires (Generalist positions)	58 (14)	33 (9)	15 (8)
New graduate hires (Key employee positions)	69 (10)	36 (7)	32 (0)
Mid-career hires	18 (1)	13 (3)	34 (9)
Hires with disabilities	1 (0)	1 (0)	6 (2)
Hires of non-Japanese nationals	1 (0)	2 (1)	_

Career Development

We are enhancing investments in people to cultivate talent that can achieve growth and drive innovation. Even during the COVID-19 pandemic, we prioritized enhancing internal communication by

providing some in-person training to augment largely online sessions to boost efficiency and optimize effectiveness. We draw on external e-learning services for job level-specific training to foster a culture in which employees keep growing by taking ownership of career development.

	(Parent company)
Investment in off-the-job training per person*1	¥120,000
Training hours per person*2	17

*1 Calculation methodology: (Total education and training expenses + Labor costs for department overseeing training) / Number of employees on non-consolidated basis (as of fiscal 2022 year-end)

*2 Calculation methodology: (Total hours of group training + Total hours of e-learning) / Number of employees on non-consolidated basis (as of fiscal 2022 year-end)

Diverse, Flexible, and Efficient Work Practices

We maintain a work and vacation structure that encourages diverse work practices. We are progressing steadily in cutting total working hours, targeting 1,900 hours per person in fiscal 2025. For fiscal 2023, labor and management agreed to a target of 1,915 hours. We share monthly results with all employees as part of our efforts.

In October 2022, we published a handbook to help employees balance their professional and personal commitments. It pres-



EV2022

ents support programs for balancing work with childbirth, childcare, nursing care, and medical treatment. It provides user-friendly information on these programs. We foster understanding among supervisors and peers by providing training for managers and opportunities for safety and health committee lectures.

In April 2023, we rolled out a program that allows employees to take leave for personal injury or illness, nursing care, childcare, volunteer work, infertility treatment, personal and family anniversaries, and life events. Workers can use the program as a safety net when life's emergencies arise, making it easier for them to take annual paid leave.

We foster flexible and efficient work practices by maintaining our telework and flexible work-hour programs. The downside is that communication issues have arisen owing in part to the pandemic. We are accordingly striving to create work environments that enhance productivity while ensuring the psychological safety of employees by encouraging them to come to our work sites at least twice weekly and use cameras during online meetings.

Increasing Job Satisfaction

Our efforts thus far have resulted in positive work environments. We will undertake initiatives that improve job satisfaction and work engagement.

We maintain a setup in which employees prepare annual career development sheets to explore career plans through interviews with supervisors.

We offer employees opportunities to transfer

internally to other positions and pursue new career paths.

In April 2023, we set up an in-house career consultation office that enables employees to shape their own careers with assistance from consultants.

We also train managers in improving their interviewing skills and organizational work engagement.



Employees Supporting Growth



I consolidate information on the performance and investments of the Performance Polymers & Chemicals Div., and engage in management and improvement. I find my work fulfilling because it occasionally contributes to business decisions. My experience in studying for an MBA internationally has proven valuable when engaging directly with offices overseas to get insights into management situations and explore solutions. Having taken maternity leave for around a year, I use UBE's shortened working hours, flextime, and telecommuting programs. The understanding and cooperation of colleagues has enabled me to continue my career.

While I work with few other women, I have never found it hard to do my job here. I find that I have actually had many opportunities to get support. I consider restructuring the chemicals business a personal responsibility, and will remain committed to my job.

Sakura Nitta

Business Management Group, Business Planning & Management Dept., Performance Polymers & Chemicals Div.

Joined UBE in 2012: Worked in cost controls at a factory. Worked thereafter in management at the nylon business. Studied at University of Cambridge Judge Business School. Then worked in sales and management for fine chemicals business, took maternity leave, and is now in management for the Performance Polymers & Chemicals Div.

I joined the Research and Development Div. in 2020 as a mid-career life science professional. I lead a team that is developing a novel cell culture system employing UBE's proprietary 3D substrates. I enjoy collaborating with experts from diverse fields in crafting new products to create value for the future. I ultimately aim to launch a biopharmaceutical business that harnesses 3D cell culture substrates. I accordingly approach my daily tasks with a

strong sense of responsibility, with my eyes on tomorrow. All of my team members are women. I seek to offer better work–life balances and create work environments in which women can do well.

Joined UBE in 2020 after previously working for a medical devices manufacturer: Currently works in the Life Sciences Research Group of the Future Tech Laboratory

Kayoko Semura

Life Science Research Group, Future Tech Laboratory, Research & Development Div.



Addressing Climate Change (Carbon Neutrality)

In May 2021, the UBE Group declared its commitment to becoming carbon neutral by 2050. In April 2022, we embarked on a quest to halve our fiscal 2013 GHG emission levels by fiscal 2030. At the same time, we set the sales target of environmentally friendly products and technologies to account for at least 60% of consolidated net sales by fiscal 2030.

We will achieve these targets by accelerating business structure reforms to drive growth in specialty chemicals. At the same time, we will work hard to contribute to

the realization of a sustainable society including helping materialize carbon neutrality, by capitalizing on opportunities to resolve environmental issues.

Futoshi Takase

Senior Executive Officer with responsibility for Environment & Safety Dept., Quality Assurance Dept., Purchasing & Logistics Dept. and Ube Corporate Service Dept.

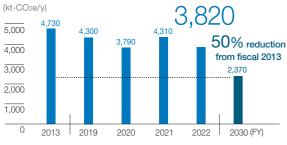
Fiscal 2030 Targets

GHG emissions reduction target: 50% reduction compared to FY2013

Target percentage of consolidated net sales comprising environmentally friendly products and technologies: 60% or more

Initiatives to Reduce GHG Emissions

Progress toward GHG Emissions Reduction Targets*1 GHG Emissions



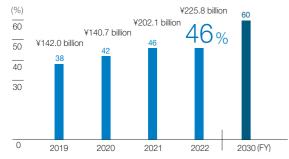
GHG Emissions in Fiscal 2022

		Kt-0026/ y	
Business sites	Scope 1	Scope 2	Total
Chemicals business	3,230	400	3,630
Japan	2,360	110	2,470
Thailand	600	280	880
Spain	270	10*2	280
UBE Machinery Group	170	20	190
Total	3,400	420	3,820

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Note: Numbers may not add up due to rounding.

Sales of Environmentally Friendly Products and Technologies*1



^{*1} Excluding cement-related business transferred to Mitsubishi UBE Cement Corporation.

Roadmap for Carbon Neutrality GHG Emissions Reduction Targets

We will continuously promote energy conservation and improve processes in our production activities, and promote the maximization of the use of renewable energy and the minimization of the use of fossil resources. Furthermore, since innovative technological development is essential to achieve carbon neutrality by 2050, we will work on research and development and practical application of non-fossilization of raw materials and CO₂ utilization technologies, including collaboration with other companies, from a medium- to long-term perspective.

Environmentally Friendly Products and Technologies

By promoting the development of environmentally friendly products and technologies and providing them to more customers, we aim to contribute to carbon neutrality for the UBE Group and society as a whole.

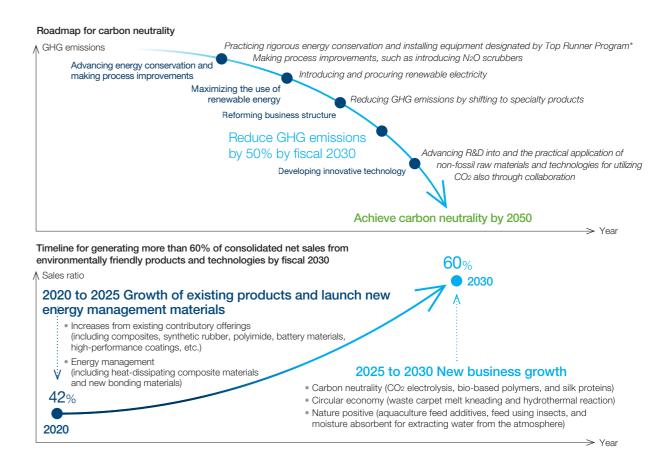
Estimated Contributions to GHG Emissions Reductions of Environmentally Friendly Products and Technologies Fiscal 2021: Approx. 11,800 kt-CO₂e/y

Note: Calculations based on the UBE Group's market shares and sales volumes of environmentally friendly products based on CO2 reductions in usage stages compared with conventional counterparts for end products incorporating UBE Group environmentally friendly products (based on CO2 reductions for one year of use based on volumes of end products used during fiscal 2021)

We formulated guidelines based on ISO 14001: 2015 to define environmentally friendly products and technologies.

Business Restructuring

Shifting to specialty chemicals should lower GHG emissions by minimizing fossil resource usage and creating a business structure that is significantly less vulnerable to market conditions, including for raw materials and fuels. We aim to establish a business structure that minimally affects the environment, focused on specialty chemicals, from profitability and growth potential perspectives. We will also add value to basic chemicals products and restructure these businesses.



We aim to halt domestic ammonia production by 2030, whose processes generate high GHG emissions. We also look to shut down key manufacturing lines for caprolactam production in Japan by fiscal 2024 in view of the high energy consumption in processes and poor prospects for improving profitability in the medium through long terms.

Such business structure reforms should enable us to reach our goal of cutting GHG emissions by 50% by 2030.

Fiscal 2022 Initiatives

Commitment Letter Submitted to Science Based Targets Initiative

In March 2023, the UBE Group submitted a commitment letter to the Science Based Targets initiative. We made this move to secure certification from that body for our targets for reducing GHG emissions across our supply chain over the next five to 10 years in keeping with the criteria of the Paris Agreement, an international treaty on climate change. We made this move in view of growing interest in environmental protection and sustainability in recent years. Our efforts to reduce our environmental impact extend beyond in-house operations to encompass our whole supply chain, from raw materials procurement through product use and disposal.

Deploying System to Calculate Product GHG Emissions Data

UBE and NTT DATA Japan Corporation jointly created a system to calculate product GHG emissions. In January 2023, we began providing data from that system to customers. This information makes it easy for customers to assess GHG emissions across their supply and value chains and contribute to efficiently implement measures to reduce these emissions.

We are using this system for some Ube Chemical Factory offerings, and look to extend its product and plant coverage.

Participating in GX League's Emissions Trading Scheme

In October 2022, we announced our endorsement of the GX (for green transformation) League. Japan's Ministry of Economy, Trade and Industry leads that initiative, which aims to reach the nation's GHG emissions goals by 2030 and achieve carbon neutrality by 2050. We also announced our participation in the league's voluntary emissions trading schemes, which will be fully operational from 2026. We consider our involvement in the league an opportunity to grow sustainably by reducing our GHG emissions while becoming more competitive.

Glossary

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^{*2} Electricity purchased from external sources was renewables based.

^{*} Under the Energy Conservation Act, Japan deployed the Top Runner Program designating equipment and facilities that deliver outstanding energy efficiency.

Disclosure Based on TCFD Recommendations

We endorse the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD). We established

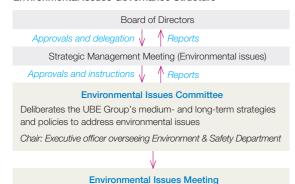


a governance structure, and are evaluating the risks and opportunities of climate change on our operations. We are reflecting this information in our business strategies and disclosing it externally.

Governance Structure

The UBE Group established the Environmental Issues Committee to identify and act on problems in that regard. The President and CEO chairs the

Environmental Issues Governance Structure



Informs about environmental issue situation overall and initiatives to reduce environmental impact

Chairman: General manager of Environment & Safety Department

Strategic Management Meeting, which receives deliberation reports from the Environmental Issues Committee, provides instructions as needed, and constantly monitors countermeasures progress. A report on important matters goes to the Board of Directors once annually.

Strategies

In view of efforts to tackle climate change and transition to a low-carbon, decarbonized economy, management assessed a range of scenarios for 2030 and beyond, analyzed risks and opportunities for the UBE Group under each scenario, and formulated the required strategies. The scenarios covered all business units, including for the cement-related business, although the assessment findings stated below exclude information relating to the cement-related business.

For each scenario, we confirmed that while the impacts of risks are unavoidable, we can sustainably enhance corporate value by capitalizing on the opportunities that stem from risks materializing.

 Analysis Assumptions, Details for Scenarios and Assessment Steps



Detailed information is available in the Support for TCFD Recommendations section of the UBE Group's website:

https://www.ube.co.jp/ube/en/sustainability/csr/initiatives/tcfd.html

Risk Management

We maintain a risk management system, for which the Risk Management Department serves as the secretariat, to register and centrally oversee risks. We identify pertinent risks for each division and business unit, classifying them as major, medium, and minor in line with their risk impacts. We define major risks as having financial impacts of at least ¥1 billion. The Strategic Management Meeting discusses major business risks, reflecting them in specific strategies and measures.

We registered and manage our climate change countermeasures in our risk management system. The Environmental Issues Committee, whose chair is the executive officer in charge of the Environment & Safety Department, is a Companywide entity. The committee formulates and implements measures and policies to address climate change-related risks that it has identified for the UBE Group overall.



Detailed information is available in the Risk Management section of the UBE Group's website:

https://www.ube.co.jp/ube/en/sustainability/riskmanagement/risk-management.html#person_in_charge

Benchmarks and Targets

In April 2022, we reviewed and formulated our fiscal 2030 targets for tackling environmental issues, as shown on the right.

GHG emissions: Reduce by 50% from fiscal 2013 level

Environmentally friendly products and technologies as a percentage of consolidated net sales: At least 60%

Data scope: Scope 1 and Scope 2 on a consolidated basis for designated energy management companies and key overseas businesses (in Thailand and Spain).



Detailed information is available in the Global Environmental Issues section of the UBE Group's website:

https://www.ube.co.jp/ube/en/sustainability/rc/environment/issues.html

We look to reach these GHG emissions reduction goals by halting ammonia production in Japan by 2030 and by transitioning to specialty chemicals.

Our fiscal 2022 GHG emissions were 3.82 million tonnes. This was 19% below the level of fiscal 2013, and reflected energy-saving and other initiatives.

Sales related to environmentally friendly products and technologies rose in fiscal 2022. At the same time, overall sales increased on higher prices. These products and technologies thus again represented 46% of net sales.

Scenario Analysis

	Risk categories	Business risks	Impacts	Potential impacts	Strategies and responses	Period of impact	Related pages
Risks					Rigorously conserve energy and improve processes	Short to long terms	
	Transition		Operations	Major	Maximize renewable energy usage	Medium to long terms	
	Transition	Greater costs and impacts on product prices from adoption of carbon pricing	Operations	Major	Restructure businesses, including by shifting to specialty chemicals	Medium to long terms	Pages <u>24–35</u> Growth Strategies
					Innovate technologies	Long term	Pages <u>36–39</u> R&D
	Transition	Adverse situation for coal-fired private power generation	Operations	Major	Explore phased coal-fired private power shutdowns	Medium to long terms	
	Transition	Requests to expand renewable energy deployments	Products	Major	Produce and procure renewable electricity	Medium to long terms	
					Rigorously conserve energy and improve processes	Short to long terms	
1	Transition	Customers requesting disclosure of GHG emissions intensity by product and lower emissions	nd Products	Major	Maximize renewable energy usage	Medium to long terms	
					 Use non-fossil-based fuels (including biomass and from recycled materials) 	Medium to long terms	
	Transition	Product sales falling from shift to EVs and less coal-fired power production	Products	Major	 Undertake in-house and collaborative R&D to create and commercialize offerings that match market needs 	Short to long terms	Pages <u>36–39</u> R&D
	Physical	Shutdowns from more frequent and larger climate-related disasters	Operations	Major	 Step up infrastructural and other disaster countermeasures 	Short to long terms	
Opportunities	Transition	Boost sales of environmentally friendly products and technologies across	Products	s Major	 Offer more environmentally friendly products, including composites, synthetic rubber, polyimide, battery materials, and high-performance coatings 	Short to long terms	Pages <u>24–35</u> Growth Strategies
	Transition	the supply chain	Products		 Launch energy management materials, including heat-dissipating composite and radiative cooling materials 	Medium to long terms	Pages <u>36–39</u> R&D
					 Develop and commercially deploy carbon-neutral technologies (CO₂ electrolysis, bio-based polymers, and silk proteins), electrified and fuel cell vehicle-related materials, and high-speed, high-capacity information transmission materials 	Medium to long terms	Pages <u>36–39</u> R&D
	Transition	New business growth and creation Produ	Products	Products Major	 Commercially deploy circular economy technologies (waste carpet melt kneading and hydrothermal reaction) 	Medium to long terms	Pages <u>61–62</u> Tackling Environmental Issues Contributing to a Circular Economy
					 Commercially deploy nature-positive technologies (aquaculture feed additives, feed using insects, and moisture absorbent for extracting water from the atmosphere) 	Medium to long terms	

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● Initiatives to Help Create Value and Grow Sustainably

Sustainability



In order to fulfill its purpose (raison d'être) as a corporate group centered on specialty chemicals, the UBE Group aims to achieve sustainable growth by effectively utilizing its management resources and creating new value for society. The cornerstone of our efforts is a focus on realizing a sustainable world. Toward that end, we work to ensure that all executives and employees of the UBE Group are fully aware of the UBE Group Basic Policies for Sustainability, identifying material issues in the areas of growth, environment, society, and governance, and proactively seeking solutions to these issues.

UBE Group Basic Policies for Sustainability

The UBE Group lives up to its founding spirit and corporate philosophy by pursuing Group sustainability through its business activities. At the same time, we are focused on strengthening our efforts to address global environmental issues and contributing to the realization of a sustainable world that exists in harmony with nature.

- 1. We will secure safety and quality in providing products and technologies that contribute to the environment.
- 2. We will practice appropriate information disclosure for all stakeholders and readily communicate with society.
- 3. We will pursue corporate governance that is in keeping with the demands of society and strive to continuously expand revenues and enhance our corporate value.
- 4. In accordance with laws and regulations at home and abroad, and international norms and guidelines that should be observed, and with respect for human rights, we will pursue our corporate activities in a sound and fair manner.
- 5. We will respect the culture and customs of all countries and regions and contribute to the development of local communities.

Sustainability Framework

Our committees and other entities deliberate on sustainability matters, reporting to the Board of Directors and the Strategic Management Meeting on their efforts overall and receiving guidance.

Board of Directors

Head Office Departments / Business Divisions

- Compliance Committee Competition Law Compliance Committee
- Export Management Committee
- Information Security Committee
- Crisis Response Committee
- Risk Management Committee
- Quality Assurance Committee
- Environment and safety / Global environment: Environmental Issues Committee
- HR policies / Health management: Health Management Implementation Committee

United Nations Global Compact

In April 2021, we signed the United Nations Global Compact and joined the Global Compact Network Japan. The network's 14 subcommittees explore global sustainability trends. Our quarterly cross-departmental meetings share the latest trends from these subcommittees to foster sustainable management.

WE SUPPORT



Initiatives to Help Create Value and Grow Sustainably

Environmental Safety Management

The UBE Group has made safeguarding the environment, safety, and health top priorities so it can provide products and services that contribute to better lives and achieve solid and sustainable arowth.

We defined priority environmental and safety measures under the UBE Group Environmental and Safety Guidelines to reflect the activities of business sites and partner companies*.

UBE Group Environmental and Safety Guidelines

We have made it our shared value to prioritize safety in everything we do. This includes ensuring safety and security in the workplace and in local communities, and conserving the global environment.

- 1. We will secure healthy, safe and comfortable working conditions, aiming to eliminate occupational accidents.
- 2. We will ensure the safety and security of facilities and operations, aiming to eliminate facilities acci-
- 3. We will reduce our emissions of waste and chemical substances, and contribute to establishing a recycling-based society by recycling and effectively usina resources.
- 4. We will voluntarily and continuously work to address global environmental issues in order to contribute to a sustainable society.
- 5. We will strive to maintain and improve the health of working persons, who give vitality to society and corporations.

Environmental Safety Measures

We implement PDCA cycles based on our environmental safety measures to constantly improve efforts relating to occupational safety and health,

process safety and disaster prevention, environmental preservation, and environmental issues.

Structure of Environment and Safety-Related Meetings

Strategic Management Meeting (Environment and Safety) Chairman: President and CEO

ES Department

Each facility

Environmental Safety Measures

We implement PDCA cycles based on our environmental safety measures to constantly improve efforts relating to occupational safety and health, process safety and disaster prevention, environmental preservation, and environmental issues.



The Outline of Environment and Safety Activities on pages 1-2 of the 2023 Integrated Report Supplementary Information (Environment and Safety/Quality Assurance) presents our environmental safety activity plans and achievements.

https://www.ube.co.jp/ube/en/ir/ir_library/integrated_report/ pdf/2023/integrated_report_environmental_safety_qa_0.pdf

Annual RC Activities' PDCA Cycle

The Strategic Management Meeting discusses and determines Companywide measures, based on which each business formulates annual activity goals and schedules.



We audit and inspect activity progress and identify concerns.

We improve areas in which we have identified issues and reflect progress with improvements in measures for the following fiscal year.

^{*} Partner companies: Including construction and other contractors

Tackling Environmental Issues











Basic Guidelines for Addressing Global Environmental Issues

The UBE Group focuses on responding to climate change (carbon neutrality), and on contributing to a circular economy and nature conservation and restoration (nature positive). We are helping resolve environmental issues by steadily implementing strategic measures. These include reducing GHG emissions across the value chain, providing environmentally friendly products, technologies, and services, and engaging with stakeholders.

Purpose

Leveraging the manufacturing technologies the UBE Group has cultivated throughout its long history, create the value required by society, in the safe and environmentally friendly manner demanded by society, and deliver that value to the people. And by doing so, help to solve global environmental issues, which have become a common issue for all humankind, and contribute to people's lives and health, and an enriched future society



Exploring and implementing measures across supply chain in three themes

Basic Activities Policy on Environmental Issues

To realize "Addressing climate change (carbon neutrality)," "Contributing to a circular society (circular economy)," and "Contributing to nature conservation and restoration (nature positive)," we have formulated the following strategies and KPIs and are steadily implementing them.

- Ensuring that the management cycle works properly by analyzing materiality, identifying risks and opportunities, formulating strategies and KPIs, and disclosing information
- Minimizing the impacts of internal operations
- Continuing to engage
- Reach out to entire value chain (suppliers,

employees, customers, investors, and communities) to resolve issues in everything from product and services purchases to in-house manufacturing and product processing, usage, and disposal

 Disclose information appropriately to all stakeholders and encourage collaboration to resolve environmental issues

Addressing climate change (carbon neutrality)

Strategy

Reduce internal GHG emissions.

Keep developing and providing environmentally friendly products and technologies that help cut GHG emissions.

Targets and Business Plan

We have formulated a business plan that encompasses overhauling our business structure reforms and deploying measures to conserve energy so we can reach our fiscal 2030 target of halving GHG emissions from fiscal 2013 levels to aim for becoming carbon neutral by 2050.

Significance

- The increase of GHG emissions into the atmosphere due to human activities is causing global warming and major changes in the climate.
- This could transform the natural environment and degrade ecosystem services. Rapid climate change could profoundly affect lives and businesses. It is our social responsibility and mission to tackle these changes as swiftly as possible.

Initiative

Please see Addressing Climate Change (Carbon Neutrality) on pages 54–55.

Contributing to a circular society (circular economy)

Strategy

We will tap discarded and other resources effectively and recycle them. We will develop and provide circular materials, products, and technologies.

Targets and Business Plan

Our goal is to increase the sales ratio of environmentally friendly products and technologies, including products that contribute to the realization of a circular economy, to 60% by 2030. In addition, we aim to effectively utilize and reduce waste such as plastics generated by our own operations.

Significance

- Population growth and economic development have raised concerns about depleting resources and destabilizing resource supplies. Circulating limited resources will help ensure stability.
- Achieving a circular economy will suppress the deterioration of circulation caused by linear material flows, such as the accumulation of large amounts of plastic waste in the ocean.
- Achieving a circular economy entails transforming linear materials flow into circular ones to

establish an economic structure that produces value by reusing waste and used products.

Initiatives

About UBECycle Recycled Multilayer Film
Contemporary social demands and regulations are driving the use of raw materials derived from recycled materials across the industry landscape. Prime examples are the packaging, automotive, electrical, electronics, construction, and other sectors. It is against this backdrop that the UBE Group seeks to recycle offerings incorporating its nylon while drawing on its end-product expertise, partner company network, and technical prowess.

A good example of Group endeavors was UBE Corporation Europe, S.A. Unipersonal (UCE)'s launch of UBECycle. This product is recycled from multilayer film waste. UCE will collect the factory trimmings of the film from film manufacturers to recycle (crush, extrude, and pelletize) them. The UBE Group plans to upcycle materials, including this nylon, for in-house production and commercialization.

UCE has earned certification of this innovative polyethylene–nylon multilayer film from recycling bodies such as RecyClass*1 and APR*2.

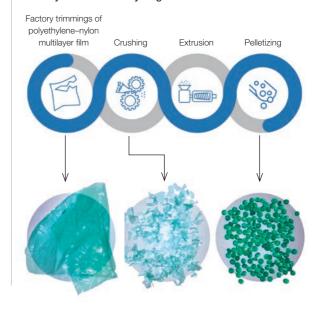


*1 https://recyclass.eu/wp-content/ uploads/2021/09/2020-PO-011-UBE-technology approval-letter.pdf



*2 https://ube.es/association-of-plastics-recyclersapr-acknowledges-recyclability-of-pe-based-film with-ubes-pa6-66-based-on-critical-guidancerecognition/

UBECycle Material Recycling Flowchart



● Initiatives to Help Create Value and Grow Sustainably

Developing Upcycling Technology for Composite Plastics

As most waste plastics are composites, they cannot be reused in regular recycling processes, so they are mostly incinerated. UBE is developing upcycling technologies for composites, adding new features to aluminum and plastic of pharmaceutical press-through-pack sheets. We are collaborating with aluminum manufacturers and recyclers to create an efficient system to collect these sheets. We are employing proprietary upcycling technology to cultivate applications for the collected sheets.

In coming years, we look to refine our composites upcycling technologies. We will endeavor to grow as a chemicals manufacturer that helps resolve environmental issues, such as by cutting CO₂ emissions by reducing the use of petroleum-derived raw materials and tackling marine plastic waste.



Contribute to nature conservation and restoration (nature positive)

3

Strategy

We will identify the impacts and dependencies of our business activities on nature, identify risks and opportunities, and contribute to the conservation and restoration of the natural environment and the sustainable use of ecosystem services. We also provide products, technologies, and services that help realize nature positive.

Targets and Business Plan

Water sources:

We analyze water stress trends based on the water conditions (context) and water supply and demand scenario at each site.

At sites where water stress is expected to rise, we will reduce water withdrawal and improve water recycling rates by formulating water use strategies and monitoring KPIs.

 Environmental impacts of our operations, including from air, water, and soil pollution:
 We monitor and reduce pollutant emissions to eliminate environmental incidents.

• Engagement:

We will work with the supply chain (environmental impact assessment), employees (education), customers (provision of environmentally friendly products and technologies), investors (provision of information and exchange of opinions), and local communities (environmental improvement activities).

We will verify adverse effects (trade-offs) on the natural environment and minimize negative impacts.

Significance

A lot of the products, services, and energy supporting our lives are the fruits of nature. Protecting the environment, restoring nature, and preserving ecosystem services will help safeguard our living environment and livelihoods. Nature conservation and restoration can reduce weather-related disasters while protecting cultures and traditions, landscapes, and our diets.

Initiatives

To respond to the conservation of the natural environment (biodiversity) and water resources, we conduct risk analysis at each business site.

Water Risk Assessment Results

We maintain five water risk levels for our key business sites. We take into account information we

Water Risks	Business Sites	Key Risk Factors
High	Not applicable	
High to moderate	Not applicable	
Moderate	Key sites in Thailand	Constraints on water supply and demand and droughts
Low to moderate	Key sites in Spain Key sites in Japan	Flooding
Low	Not applicable	

secure from the World Resources Institute's Aqueduct water risk atlas and other external sources, as well as by our sites.

Key business sites in Thailand and Spain formulated the following KPIs, and are addressing projected increases in water stress from 2030.

Business Sites	KPIs
Key sites in Thailand	Reduction in water consumption per unit of production By 2024, down 5% from the 2021 level
	Water recycling rate As of 2024, 26%
Key sites in Spain	Reduction in water consumption per unit of production By 2030, down 10% from the 2022 level
	Water recycling rate As of 2030, 10%

We draw on the Integrated Biodiversity
Assessment Tool and local information to check
the proximity of key business sites to nature
conservation areas and locations that are important for conserving biodiversity and constantly
check potential impacts and extents.

- Not near Ramsar Sites
- The sea level near the Ube area is in the International Union for Conservation of Nature's management category VI for protected areas.
- The Ube-Fujimagari area borders key biodiversity areas (Suonada and the Koto River estuary).
- The national government regulates the seawater area bordering the Ube area, fishing rights there.

Fiscal 2022 Initiatives

Ube Chemical Factory

Marine Plastic Waste

- Participated in year-end street cleanup that an Ube City volunteer group organizes
- Patrolled waste storage sites every quarter
- Recycled waste plastic

Biodiversity Conservation

- Participated in Mine Agriculture, Forestry and Fisheries Office's forestation initiatives to protect water
- Helped exterminate Argentine ants by contributing to administrative reports and exterminated nests to prevent infestations from spreading beyond business sites





Employees participating in the 15th Forest Creation Experiential Activity for Water Conservation

Sakai Factory

Marine Plastic Waste

Undertook joint cleanups with neighboring companies

Biodiversity Conservation

- Took part in forestation initiative on January 14, 2023
- Attended Osaka metropolitan government and Sakai City government seminars

Water Resource Conservation

 Implemented measures to conserve water, including by installing sensors on office washing basin faucets

UBE Machinery Group

Marine Plastic Waste

Separately disposed of plastic bottle caps

Water Resource Conservation

 Upgraded waterworks facilities and stepped up wastewater management



Occupational Safety and Health / Process Safety and Disaster Prevention



We undertake occupational safety and health as well as process safety and disaster prevention initiatives in keeping with the UBE Group Environmental and Safety Guidelines. The guidelines embody a firm commitment to prioritizing safety in everything we do by ensuring safety and security in workplaces and in communities while protecting the global environment.

Occupational Safety and Health

We aim to eliminate occupational accidents, and endeavor to reinforce and keep enhancing safety initiatives by fostering a culture of safety. We also strive to reduce risks in operations that are prone to major accidents and make them inherently safe. From fiscal 2020, we began prioritizing undertaking safety initiatives in collaboration with partner companies*. From fiscal 2021, we deployed education and training programs to increase safety awareness.

We investigate and respond to all accidents causing time and workday losses. We thereafter confirm the effectiveness of these measures and roll them out across our organization to prevent similar incidents.

* Partner companies include those handling construction contracts

Process Safety and Disaster Prevention

We undertake security initiatives to eliminate accidents, and to make facilities safe and secure. We also conduct disaster-preparedness activities. Our focuses in fiscal 2022 were on eliminating facilities and environmental accidents, improving safety at high-pressure gas facilities, and preparing for natural disasters.



Please see pages 3-5 of the 2023 Integrated Report Supplementary Information (Environment and Safety/ Quality Assurance) for details on occupational safety and health as well as process safety and disaster prevention activities and outcomes from initiatives in fiscal 2022.

https://www.ube.co.jp/ube/en/ir/ir_library/integrated_report/ pdf/2023/integrated_report_environmental_safety_qa_1.pdf



Quality Assurance and Product Safety

We undertake quality assurance and product safety initiatives based on the UBE Group Fundamental Quality Guidelines.

Quality Assurance

We have drawn on lessons from previous inappropriate quality inspection practices to strengthen Groupwide quality assurance activities. In our drive to become a specialty chemicals company, we will bolster quality management efforts to maximize corporate value by satisfying customers. We will accelerate our endeavors so customers consider quality one of our greatest strengths.

Product Safety

We factor health, safety, and the environment into chemical substance management by complying with domestic and international chemical control regulations, closely overseeing these substances in the supply chain, and disclosing Safety Data Sheets* for key products on our website.

In fiscal 2022, we deployed a 24/7 emergency contact service worldwide to deal with transportation accidents and logistics safety issues should they happen.



Please see page 17 of the 2023 Integrated Report Supplementary Information (Environment and Safety/ Quality Assurance) for details on quality assurance and product safety activities and outcomes from initiatives in fiscal 2022

https://www.ube.co.jp/ube/en/ir/ir_library/integrated_report/ pdf/2023/integrated_report_environmental_safety_qa_7.pdf

* A Safety Data Sheet is documentation containing hazard and toxicity information about chemical substances that manufacturers disclose when supplying chemical substances and products incorporating them. Initiatives to Help Create Value and Grow Sustainably

Human Capital





We aim to remain an innovative organization that enables sustainable growth. We are pursuing Groupwide goals to foster diversity, equity and inclusion, work engagement, and health management. People is one of UBE Management Principles. We formulated the UBE Group Human Resources Management Guidelines to provide fulfilling work environments.

(See pages 50-53 for information on priority measures in UBE's medium-term management plan.)



Engaging with Employees

Management engages closely with employees as key stakeholders. We survey them to identify areas in which we need to attain equity, provide feedback, and reflect swiftly findings in our measures. Management and employees also engage in direct dialogue to exchange views about UBE's goals and deepen mutual understanding. We discuss human resources strategy issues that come to light by the survey and dialogues in meetings of the Board of Directors, the Strategic Management Meeting, and the Executive Management Workshop. We also share them in labor-management meetings to foster cooperation between both parties.

Results of parent company dialogue with and surveys of employees in fiscal 2022

- Providing greater opportunities for women
- Work-life balance support
- Health issues
- Assisting rehired retirees
- Unconscious bias
- Support for management

Reflected in personnel measures from fiscal 2022

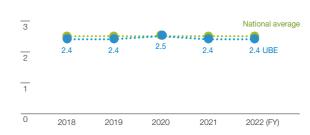
- Initiated childcare support allowance (¥20,000 monthly per child under 3 years old)
- Extended paid childcare leave from 7 days to 15
- Introduced life assistance leave (switched from accumulated leave)
- Published a handbook to help employees balance their professional and personal commitments
- Shortened prescribed working hours for day shift workers by 15 minutes daily
- Increased time off for shift workers by two days
- Revised rehired retiree system and enhanced interviews
- Inclusive Leadership Education for managers

Work Engagement

UBE uses index of the new Brief Job Stress Questionnaire that companies around Japan administer to employees to gauge work engagement levels and trends. We will improve work engagement and strengthen the organization. We will do so by creating a structure that enables managers to track circumstances at each workplace. We will also create opportunities for growth through education and provide interactive positive mental health training in collaboration with external employee assistance programs to motivate workers.

Work Engagement Score





Health Management Initiatives

The UBE Group enhances human capital by encouraging employees to manage their health while investing in health to create fulfilling, psychologically safe workplaces. Efforts have included deploying health apps and instituting e-learning

programs to improve health literacy. In fiscal 2022, we published a handbook to help employees balance their professional and personal commitments to help employees understand a system to support work-life balance that their professional commitments do not undermine their medical treatment needs. We also provide health management tips to all managers. In fiscal 2022, concerted Groupwide health management efforts culminated in a leading Japanese health council, the Nippon Kenko Kaigi recognizing machinery subsidiary Fukushima Ltd., as a Bright 500 company. Seven Group companies have been recognized as excellent corporations. We will keep striving to manage employee health.

Employing People with Disabilities

The UBE Group has employed such individuals since establishing a special-purpose subsidiary for them in 1991. A team specializing in dealing with people with disabilities creates a supportive environment by collaborating with local support bodies to assist with everything from recruiting to job placements. That subsidiary matches tasks and individuals and discusses and constantly fosters progress by evaluating career development. A parallel endeavor is to broaden job opportunities through special purpose subsidiaries and agricultural jobs. We will continue to practice social inclusion and empower people to showcase their skills and get fulfillment through their work.



Respect for Human Rights

The UBE Group has made respecting human rights central to its corporate activities. We formulated the UBE Group Human Rights Guidelines in line with the United Nations Guiding Principles on Business and Human Rights. We will fulfill our corporate social responsibilities.



Details about the UBE Group Human Rights Guidelines are on the UBE Group's website:

ahts/respect-for-hr.html

The UBE Group Action Guidelines state our respect for individuals, fostering mutual understanding, and eliminating discrimination based on gender, nationality, race, disabilities, age, social status, religion, beliefs, or sexual orientation. The guidelines oppose inhumane practices, including forced and child labor. They reject ties with individuals or organizations engaging in such activities.

We signed the United Nations Global Compact. We participate in the Human Rights Due Diligence Working Group and the Human Rights Education Working Group of Global Compact Network Japan. We are a permanent member of a corporate human rights liaison council in the Ube-Sanyoonoda area, through which we engage in enlightenment activities with neighboring companies.

Human Rights Training

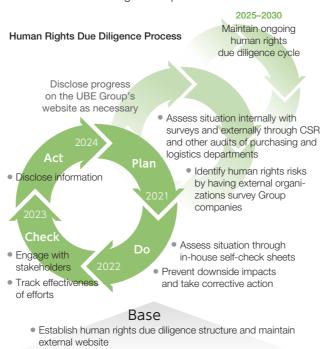
We created a Groupwide framework to educate employees about human rights based on the UBE Group Human Rights Guidelines. We ensure that all employees understand and embody our stance on human rights in all aspects of business by providing ongoing training. In fiscal 2022, all UBE Group operations in Japan conducted an e-learning initiative marking Human Rights Week to showcase the topics of business and human rights and human rights due diligence and our initiatives.

We also conducted a survey to identify areas in which employees perceive that there are human rights risks.

Initiative	Times held	Participants	
e-learning 1		6,794 (Domestic Group operations, including directors)	
New employee training		47 (Parent company)	
Job-specific training	1	310 (Parent company)	

Human Rights Due Diligence Progress

We endeavor to identify, prevent, and address any human rights infringements in our activities. We will deploy a PDCA cycle through and beyond 2024 based on the following action plan.



 Educate about human rights through e-learning and job-specific training

Doculto and Eutura Initiativa

Human Rights Due Diligence Progress through Fiscal 2022

Initiatives	Specific Initiatives	Results and Future Initiatives		
Third-party desktop survey of human rights risks among Group companies by an external agency	Surveyed human rights risks of 18 domestic and 21 overseas based on information from leading nongovernmental organizations, media outlets, and social networking services around the world	Survey identified no noteworthy risks		
Identify human rights risks based on e-learning course participant questionnaire	Listed employee-perceived risks and adverse impacts based on Japanese government table of 25 key human rights and human rights risks related to corporate activities	Enhanced counseling channels and bolstered education in view of the high number of respondents identifying harassment as a risk. In fiscal 2023, we will map out and prioritize risk probabilities and severities and act accordingly		
Share initiative progress and challenges with key overseas sites	Used United Nations Guiding Principles Reporting Framework Self-Assessment Check Sheet to track site progress and share specific initiatives	Look into rolling out initiatives across organization while factoring in national legal and cultural backdrops		
Explicitly state respect for human rights in procurement guidelines and survey supply chain CSR efforts	See page 67 for more information on supply chain management.			

Initiatives to Help Create Value and Grow Sustainably

Supply Chain Management





Thorough Procurement in Line with Basic **Purchasing Guidelines**

The UBE Group endeavors to build fair and honest business relationships. We purchase in line with the Basic Purchasing Guidelines - Fair and Equitable Transactions, Objective Assessment in Selection of Business Partners, Legal Compliance and Confidentiality, Green Procurement, and Sustainable Procurement, as disclosed in the purchasing information on the UBE Group's website.



Detailed information on these policies is available on the UBE Group's website:

https://www.ube.co.jp/ube/en/koubai/

Declaration on Partnership Building

On April 1, 2022, the UBE Group **☆**パートナーシップ joined the Declaration on Partner-構築宣言 ship Building*, through which it committed itself to focusing on the following endeavors to build new partnerships with supply chain partners and business operators that create value. Another aim is to promote UBE's founding principle of Coexistence and Mutual Prosperity.

- Pursue coexistence and mutual prosperity throughout the supply chain and newly collaborate with entities of all sizes and affiliations
- Ensure that parent enterprises and subcontractors comply with desirable business practices (promotion standards based on the Act on the Promotion of Subcontracting Small and Medium-sized Enterprises)

The UBE Group will keep enhancing collaboration with suppliers in keeping with its founding principle of Coexistence and Mutual Prosperity to add more value to the entire supply chain.



Please visit the UBE Group's website for more information on the Declaration on Partnership Building.

https://www.ube.co.in/ube/in/news/2022/20220401_02 html (in Japanese only)

Sustainable Procurement

The UBE Group has committed to sustainable procurement from business partners and elsewhere across the supply chain to enhance social credibility.

We seek to give priority to procurement from business partners who fulfill the following commitments.

- Have established an internal structure for practicing sustainability
- Ensure stable supply and emphasize quality
- Practice fair transactions in compliance with corporate ethics, the law, and social norms
- Place importance on environmental friendliness

- Work to address respect for human rights as well as safety and health management
- Value social contribution and communication with society, and practice information management and disclosure



For more information on sustainable procurement, see the UBE Group Sustainable Procurement Guidelines on the UBE Group's website.

https://www.ube.co.jp/ube/en/koubai/pdf/csr_guide-

Business Partner Survey Regarding Sustainability

UBE has conducted four business partner sustainability surveys to assess progress and request improvements where necessary. We hold discussions with partners whose response levels are low to help them improve their efforts. We plan to keep surveying partners regularly.

Question categories

- 1. Internal structure for practicing sustainability
- 2. Ensuring stable supply and quality
- 3. Corporate ethics, compliance with the law and social norms, and fair transactions
- 4. Consideration for the environment
- 5. Respect for human rights, safety, and health
- 6. Social contribution, communication with society, and information management and disclosure, etc.

Large companies (capitalizations exceeding ¥300 million)	Small and medium-sized enterprises (capitalizations below ¥300 million)	Totals
54	154	208
4.5	3.3	3.6
92	184	276
4.5	3.5	3.8
88	183	271
4.5	3.5	3.8
	companies (capitalizations exceeding ¥300 million) 54 4.5 92 4.5 88	companies (capitalizations exceeding ¥300 million) medium-sized enterprises (capitalizations below ¥300 million) 54 154 4.5 3.3 92 184 4.5 3.5 88 183



Please visit the UBE Group's website for more information on the results of the fourth survey of business partners on sustainability in 2021.

https://www.ube.co.jp/ube/en/koubai/pdf/ customer 01.pdf

Policy on Conflict Minerals

The UBE Group practices responsible procurement of raw materials, in order to meet its social responsibilities as a corporation. If it is found that conflict minerals (minerals that are mined and sold under the control of armed groups in the Democratic Republic of the Congo and surrounding regions) are used in procured raw materials, we will immediately stop procurement of the raw materials.

^{*} Declaration on Partnership Building: The Council on Promoting Partnership Building for Cultivating the Future established this framework for building new partnerships. This entity's members include the Cabinet Office and the Small and Medium Enterprise Agency. A company as the ordering party, declares to build a new partnership, by the name of the representative of the company

Corporate Governance

Corporate Governance Initiatives in Fiscal 2022

- Better supervised progress with key management matters linked to achieving business plans over medium and long terms and swiftly implemented initiatives
- As a chemicals company, constantly enhanced Groupwide internal controls and risk management systems while more closely overseeing their effectiveness
- As a holding company, bolstered oversight of effective governance system operations for machinery and cement-related businesses

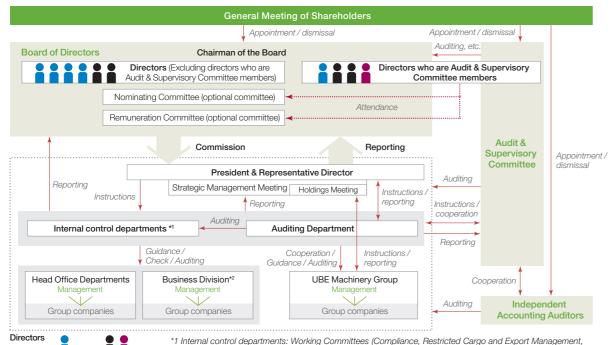
Detailed information on UBE's corporate governance is available on the UBE Group's website: https://www.ube.co.jp/ube/en/corporate/management/governance_report.html

Information Security, and Crisis Management), Head Office Departments Working on Internal Control

*2 Business Division, etc.: Four Business Divisions, Production & Technology Division, and Research &



Overview of Corporate Governance and Internal Controls



Basic Approach to Corporate Governance

Our basic mission is to deliver sustainable growth Groupwide and increase corporate value over the medium to long terms. We accordingly deemed it vital to take the following steps to ensure effective corporate governance and operate sustainably to fulfill our responsibilities to all stakeholders, including shareholders, customers, business partners, employees, and communities, and gain their trust.

- Reinforce the Board's business oversight by establishing a framework in which directors who are Audit & Supervisory Committee members with rights to audit and express their opinions can also vote in Board of Directors' meetings
- Expedite implementation by delegating important business decisions to the President & Representative Director

Board of Directors

In principle, a director who is not concurrently an executive officer serves as Chairman of the Board of Directors. In accordance with laws, regulations

and the Articles of Incorporation, the Board of Directors stipulates key management matters, encompassing basic corporate policies and key financial and risks based on the Regulations of Board of Directors and makes decisions about these. It also oversees that directors and executive officers carry out their duties appropriately and efficiently. As a Company with Audit & Supervisory Committee, we are accelerating operational execution by delegating a part of decision-making on important operations to the President and CEO while consistently reinforcing supervision.

Key Agenda Items in Fiscal 2022

Progress in Implementing Medium-Term Management Plan

 Overseeing progress in executing growth strategies and sustainability management (business structure reforms that prioritize addressing global environmental issues and such measures as bolstering human capital and digitizing business processes buttressing such reforms)

Directors' Attendance at Board and Committee Meetings From April 1, 2022 to March 31, 2023

	Name	Board of Directors		Nominating Committee	Remuneration Committee
Directors	Yuzuru Yamamoto	13/13 (100%)		4/4 (100%)	3/3 (100%)
	Masato Izumihara	13/13 (100%)			
	Makoto Koyama*1	3/3 (100%)			
	Hideo Tamada*2	10/10 (100%)			
	Masayuki Fujii	13/13 (100%)			
Outside Directors	Keikou Terui*1	3/3 (100%)		2/2 (100%)	2/2 (100%)
	Tetsuro Higashi*3	8/9 (89%)		3/3 (100%)	3/3 (100%)
	Takefumi Fukumizu*2	10/10 (100%)		2/2 (100%)	1/1 (100%)
Director, Member of the Audit & Supervisory Committee	Atsushi Yamamoto	13/13 (100%)	18/18 (100%)		
Outside Directors, Members of the Audit & Supervisory Committee	Takashi Shoda	13/13 (100%)	18/18 (100%)	1/1 (100%)	
	Tadahiko Fukuhara*1	3/3 (100%)	4/4 (100%)		
	Tamesaburo Yamamoto*2	9/10 (90%)	14/14 (100%)		
	Satoko Suzuki*2	10/10 (100%)	14/14 (100%)		

- *1 Retired as of June 29, 2022
- *2 Appointed as of June 29, 2022 *3 Retired as of January 4, 2023

Group Governance

- Oversee the effectiveness of Groupwide internal controls and risk management systems
- Supervise new administrative structure as a holding company for machinery and cementrelated businesses
- Assess effectiveness of Board of Directors and debate initiatives to address issues
- Discuss disclosure content in Corporate Governance Report reflecting UBE's commitment to all 83 principles of the Corporate Governance Code
- Evaluation of the economic rationality of crossshareholdings, etc.

Audit & Supervisory Committee

The Audit & Supervisory Committee monitors and verifies the establishment and operations of internal control systems and supervises directors and others executing business in line with laws and regulations and committee regulations by implementing such initiatives as below.

- Cooperating with the Auditing Department and Independent Auditors
- Exchanging views with the President and CEO
- Auditing executive directors, executive officers, and business divisions, including subsidiaries, and the Internal Control Departments, and expressing opinions as needed

& Supervisory mittee entage of outside tors on the Audit pervisory mittee	Tamesaburo Yamamoto (Chairman)	Outside Directo Independent Directo
	Satoko Suzuki	Outside Directo Independent Directo
	Tatsuya Tanaka	Outside Directo Independent Directo
	Masayuki Fujii	Non-Executive Insid Director, Full-tim

Outside directors in the Audit & Supervisory committee attend Nominating Committee and Remuneration Committee meetings to confirm details and procedures and supervise selections and dismissals of directors (excluding those on the Audit & Supervisory committee) and their remuneration.

(Nominating Committee Percentage of outside directors on the Nominating Committee	Takefumi Fukumizu (Chairman)	Outside Director Independent Director
(Tsugio Mitsuoka	Outside Director Independent Director
	66.6%	Yuzuru Yamamoto	Chairman of the Board, Non-Executive Inside Director

Remuneration Committee	Tsugio Mitsuoka (Chairman)	Outside Director Independent Director
Percentage of outside directors on the Remuneration	Takefumi Fukumizu	Outside Director Independent Director
Committee	Yuzuru Yamamoto	Chairman of the Board, Non-Executive Inside Director

Outside Directors

UBE has appointed outside directors to add independent,

Percentage of outside directors

third-party viewpoints to the decision-making

Number of Directors



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process and to the monitoring of management to ensure efficiency, transparency, and objectivity from June 2005. In addition, UBE employs a Nominating Committee and Remuneration Committee as advisory bodies to the Board of Directors. Each comprises three members—two outside directors (excluding members of the Audit & Supervisory Committee) and one non-executive inside director (Chairman of the Board)—and is chaired by an outside director.

Effectiveness Assessment of the Board of Directors

UBE convenes an annual Evaluation Meeting for Effectiveness of the Board of Directors composed of all directors to hold deliberations on evaluating the effectiveness of the Board of Directors, based on directors' self-assessment of the Board of Directors (to be obtained through questionnaires, etc.). The Board of Directors conducts an evaluation of its effectiveness based on these deliberations. In the April 2023 meeting of Board of Directors, the board concluded that the effectiveness of the Board of Directors is ensured because it was functioning effectively in view of an assessment that its composition and operation was effective and that it had engaged in vigorous discussions and deliberations.

Key challenges for fiscal 2022 were as follows.

Challenges

- Better supervise progress with key management matters linked to achieving business plans over medium and long terms and swiftly implement initiatives.
- 2. As a holding company, bolster oversight of effective governance system operations for machinery and cement-related businesses.

Major Initiatives

 The Board stepped up efforts to supervise progress with key management matters linked to achieving

- business plans over medium and long terms and the effectiveness of Groupwide internal controls and risk management systems by requesting executives to constantly improve reporting and instructing them to accelerate their efforts.
- The Board supervised operational progress with a new administrative structure as a holding company for the machinery business cement-related businesses.
- In an Executive Management Workshop, Board members drew on information from external experts in the global business environment and corporate strategies in the chemicals industry to discuss UBE's issues in seeking to drive specific initiatives to reach medium- and long-term management plan objectives.

At the same time, the Board of Directors is becoming more diverse as outside directors changed. It was in view of that transition that members presented prospective issues and improvement proposals to enhance the Board's effectiveness. These included providing more business and organizational information to outside directors, enhancing business reports, and broadening preliminary explanations so deliberations in Board gatherings could be more comprehensive. The Board accordingly decided to improve its effectiveness by stepping up efforts to address basic and material issues that it identified in fiscal 2022.

Director Skills Matrix

Members of the Board of Directors have a wealth of experience and advanced expertise in general business management and sustainability, finance and accounting, manufacturing, technology and R&D, sales and marketing, compliance and risk management, human resources management, and global business. We ensure diversity in gender as well as other areas, and choose directors who are members of the Audit & Supervisory Committee for their experience, capabilities, and knowledge of finance, accounting, and legal matters.

Skills Matrix for Direct	ors	General Business Management / Sustainability		Manufacturing / Technology / R&D	Sales / Marketing	Compliance / Risk Management	Human Resources Management	Global Business
Directors	Yuzuru Yamamoto	•		•		•		
	Masato Izumihara	•			•			•
	Hideo Tamada	•				•	•	
	Hirotaka Ishikawa	•	•				•	
Outside Directors	Takefumi Fukumizu	•		•		•		
	Tsugio Mitsuoka			•				
Director, Member of the Audit & Supervisory Committee	Masayuki Fujii	•	•					•
Outside Directors, Members of the Audit & Supervisory Committee	Tamesaburo Yamamoto	•				•	•	
	Satoko Suzuki	•	•			•		
,,	Tatsuya Tanaka	•			•			•

Note: Up to three skills expected of director are indicated.

Anticipated Areas and Roles

General business management/sustainability Oversee efforts to resolve UBE's business issues and improve corporate value by leveraging corporate management experience at companies and knowledge of organizational operations and management strategies to drive sustainability management

Finance/accounting Draw on experience and expertise in finance and accounting to deliver sound judgments and advice regarding capital policies, financial strategies, and financial reporting.

Manufacturing/technology/R&D Draw on experience and expertise in technological fields to determine the suitability and advice regarding policies, strategies, and management resource investments in product manufacturing, technology development, and R&D

Sales/marketing Harness experience and expertise in sales and marketing to assess and advise on sales and marketing policies, strategies, and business resource investments

Compliance/risk management Oversee and advise on compliance and risk management initiatives based on experience and expertise in compliance and risk management

Human resources management Employ experience and expertise in human resources, labor relations, and human resources development to evaluate and advise on Group human resources management initiatives

Global business Draw on experience and expertise in global business to oversee and advise on the Group's global deployment and issue resolution efforts

Director and Executive Officer Remuneration

The Remuneration Committee advises the Board of Directors and comprises the chairman and a majority membership of outside directors. This body deliberates on the compensations of individual directors (excluding those of Audit & Supervisory Committee members) and executive officers, and presents its findings to the Board of Directors, which then makes decisions. Audit & Supervisory Committee members discuss and determine remunerations for directors who are committee members.



Director and Executive Officer Remuneration System and Method of Calculation

Fixed Compensation/ Performance-linked Remuneration	Structure of Remuneration	Name of Remuneration	Method of Calculation
Fixed Compensation	Base Compensation	Fixed remuneration for each position	Fixed remuneration for each position
Performance- linked	Annual incentives	Company performance-linked remuneration	Consolidated ordinary profit in the previous fiscal year × Coefficient for each position
Remuneration		Remuneration based on evaluation of achievement of annual individual performance targets	Level of achievement of annual targets for each officer
	Long-term incentives	Remuneration based on evaluation of achievement of medium- to long-term individual performance targets	Level of achievement of 3–5 year medium- to long-term targets for each officer
		Restricted stock remuneration	Ordinary year: Base amount for each position / Average share price during the previous fiscal year + Number of shares carried over from the previous fiscal year
			Adjusted year: Base amount for each position / Average share price during the previous fiscal year × (100% + Grant ratio - 20–30%*) + Number of shares carried over from the previous fiscal year

Note: Directors who are Audit & Supervisory Committee members and outside directors receive base compensation only, at a fixed amount.

Fixed remuneration -

Ratios of Base Compensation and Annual and Long-Term Incentives of Directors (Excluding Members of the Audit & Supervisory Committee and Outside Directors) and Executive Officer Remuneration

Performance-linked remuneration

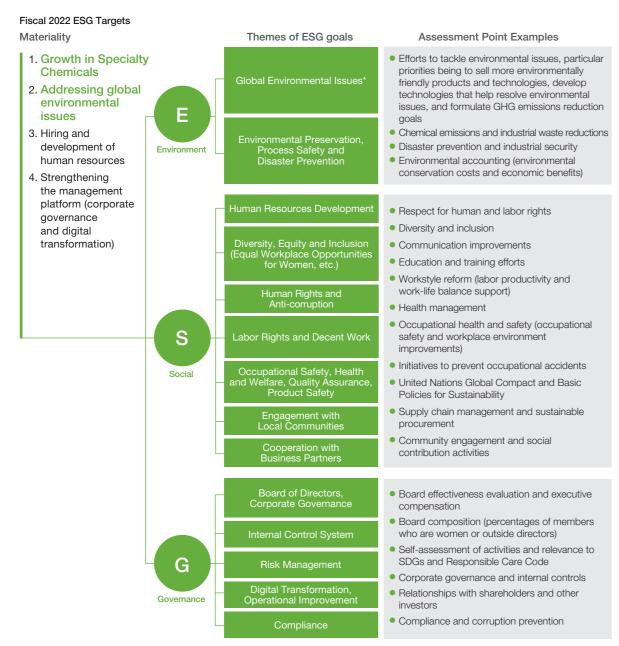
Base compensation	Annual i	ncentives	Ap	prox. 0%	Long-t incent	
Approx. 50%	Appro	x. 30%		relate	d Approx	. 20%
Note: The ratios of annual incentives for the President and the Chairman are high compensation lower, compared to those for other directors and executive			initia	atives		
Total Amounts of Remuneration, etc., for Each Category of Officer,	Total		Breakd	own		
Amounts for Each Type of Remuneration, etc., and the Number of Officers		Fixed Remuneration		Remun		
(Millions of yen)		_			Term Incentives	Number
Officers	Total Remuneration	Base Compensation	Annual Incentives		Of Which, Share Compensation	of Eligible Officers
Directors (Excluding directors who are Audit & Supervisory Committee members)	301	147	92	62	30	8
(Of which, outside directors)	(21)	(21)	(—)	(-)	(-)	(3)
Directors who are Audit & Supervisory Committee members	78	78	_	_	_	5
(Of which, outside directors)	(40)	(40)	(-)	(-)	(-)	(4)
Total	379	225	92	62	30	13
	(61)	(61)	(—)	(—)	(—)	(7)

^{*} Adjusted in a range from 80% to 130% depending on the level of achievement of the management indicators

Initiatives to Help Create Value and Grow Sustainably

ESG Targets

Our annual and medium- to long-term targets include ESG-related initiatives. We draw on ESG initiatives in tackling the pivotal challenges of growth in specialty chemicals and addressing global environmental issues. We set ESG targets for each director, evaluating performance and calculating compensation to build incentives to reach. ESG goals differ among directors. In fiscal 2022, progress with ESG targets accounted for approximately 10% of total compensation for directors. A similar setup applies to executive officers.



- * Global environmental issues: Set guidelines in three priority areas in response to changes in the external environment.
- 1. Addressing climate change (carbon neutrality)
- 2 Contributing to a circular society (circular economy)
- 3. Contribute to nature conservation and restoration (Nature Positive)

Executive Officers

UBE has been using an executive officer system to separate supervision and business execution since June 2001. The President and Representative Director delegates authority to executive officers, who perform their duties based on management policies decided by the Board of Directors.

General Meeting of Shareholders and **Exercise of Voting Rights**

The Notice of Convocation is sent out three weeks prior to the General Meeting of Shareholders, but its contents are posted on the UBE Group's website earlier. UBE provides access to mobile phone and internet voting in addition to voting by

mail so that shareholders unable to attend can also exercise their voting rights. UBE also uses an electronic voting platform for institutional investors.

We are live streaming the gathering to make it accessible for shareholders unable to attend in person.

At the General Meeting of Shareholders held on June 29, 2022, a total of 20,725 shareholders exercised their voting rights (including 20,625 shareholders who exercised voting rights in writing and via the internet), representing 78.7% of total voting rights.

Engagement with Shareholders

Two-Way Communication through IR Activities

We aim to fairly disclose timely and appropriate information. We engage closely with investors and draws on their feedback to improve corporate value. We accordingly provide extensive opportunities for investors to speak directly with the president and CEO and other members of the management team.



Detailed information is available in the Investor Relations section of the UBE Group's website: ttps://www.ube.co.jp/ube/en/ir/

Internal Control Systems

We have chief compliance and chief risk officers, and undertake Groupwide internal controls and risk management through the Legal Department, Risk Management Department, Environment & Safety Department, QA Department, and other internal control bodies, and through a range of operational

committees and risk management committees overseeing compliance, information security, export controls, and crisis management.



Detailed information on the Basic Policy for Establishing Internal Control is available on the UBE Group's website: tps://www.ube.co.jp/ube/en/corporate/manage-

Compliance

UBE established the UBE Group Action Guidelines as a code of conduct guiding basic behavior within the UBE Group and among constituent members. The guidelines outline the standards and criteria for compliance in corporate activities, which directors and employees are expected to adhere to.

UBE is working to upgrade and strengthen structures and frameworks for compliance. Initiatives include the introduction of the "UBE C-Line," a hotline that allows executive officers and employees to directly report compliance issues without going through normal channels. This encourages the rapid finding and swift correction of workplace harassment and labor problems, embezzlement and other misconduct, corruption such as bribery, collusion, and other compliance issues. By providing compliance-related information, e-learning, team coaching, and other programs, UBE continuously educates and enlightens its employees.

In fiscal 2022, we conducted legal training to educate about the Anti-Monopoly Act, Subcontract Act, Unfair Competition Prevention Act, and other legislation by in-house and outside instructors. We also conducted compliance training for Group

Key investor relations activities in fiscal 2022

	Main representatives	Times held
Management Overview Briefing	President and CEO	1 (After the announcement of financial results for the fiscal year)
Earnings briefings	CFO	4 (Quarterly)
Overseas road shows	President and CEO, and CFO	3 (Individual meetings with investors in United States and Asia and teleconferences with European investors owing to pandemic)
Small meetings	President and CEO, and executive officers	2 (one meeting with sell- and buy-side analysts)
Individual meetings with institutional investors and securities analysts Of which, accounted for by ESG meetings	CFO and Accounting & Finance Dept.	About 160 times (130 with domestic investors and 30 with foreign investors) Approx. 10 times

Key topics and areas of interest

- Specialty business growth strategies and business structure reforms
- Initiatives to tackle environmental issues, particularly climate change
- Performance trends and outlook for cement-related businesses
- Shareholder return policy direction

Feedback to management

- Sharing feedback from meetings with analysts and investors in Board and other gatherings • Distributing securities firm analyst reports by email and other channels
- Outcomes from engaging with shareholders and other investors
- Investor request: While your cement-related business is now a separate unit, I would like to see you maintain user-friendly disclosure regarding that area.
- → From fiscal 2023, we have held management briefings and other gatherings regarding cement-related businesses in which representatives of Mitsubishi UBE Cement take part.
- Investor request: Please present a coherent rationale for your growth strategies. → We have improved disclosure to focus on priority businesses, starting with medium-term

management plan and other materials in fiscal 2023.

company managers and online meetings with people at overseas offices to foster compliance Groupwide.

Compliance System

UBE Group Compliance

Divisional Compliance

Preventing Corruption

Chapter 3 of the UBE Group Action Guidelines for Business Conduct, titled Fairness and Integrity, states a commitment to maintaining healthy relationships with governments and regulators. The objective is to prevent the bribery of public officials in Japan or abroad as well as other forms of corruption. We accordingly formulated the UBE Group Policy on Bribery Prevention, and provide e-learning and collective training courses for executives and employees. We maintain a framework that if such matters of concern as suspected bribery of public officials, excessive entertainment with business partners, exchanges of money and goods, or collusion come to light through our internal hotline, compliance officers and departments collaborate to swiftly inquire into the facts and take the necessary measures.

In fiscal 2022, there were no incidences of corruption, which would be subject to disciplinary action, or any penalties or other charges for corruption.



Please visit the Compliance section of the UBE Group's website for the UBE Group Policy on Bribery Prevention. nttps://www.ube.co.jp/ube/en/sustainability/compli-

Information Security

Cyberattacks and other information security threats have surged in recent years as digitization has advanced and social conditions have changed. These considerations prompted us to create a suitable structure to safeguard our operations. This effort entailed appointing a chief information security officer (the executive officer overseeing the Information Systems Department). We additionally set up the Information Security Committee to advise that officer and plan and deliberate on key related matters.

On top of that, we formulated our Information Security Guidelines to ensure that we rigorously disclose, use, preserve, and manage information properly and implement and constantly review information security measures on an ongoing basis.

Also, we conduct regular in-house training for all executives and employees to ensure that they understand the importance of information security. Through these and other initiatives, we strive to safeguard information and enhance our standing as a good corporate citizen.



Please visit the Information Protection and Management section of the UBE Group's website for details on our information security management structure and information security guidelines.

https://www.ube.co.jp/ube/en/sustainability/compliance/compliance html#information

Directors (As of June 29, 2023)



Representative

Audit & Supervisory

Audit & Supervisory

Audit & Supervisory

Director

Chairman of

the Roard

CRO and CCO

Chairman of the Board and Director Yuzuru Yamamoto

Joined the Company Executive Officer, UBE Machinery Corporation, Ltd.

Representative Director, President of UBF Machinery Corporation, Ltd.

Executive Officer Managing Executive Officer

Senior Managing Executive Officer 2013

Representative Director and Senior Managing Executive Officer 2015

President & Representative Director, President & Executive Officer, and Group CEO

Directors & Representative Director Chairman of the Board of Directors & Director (current position)

Chairman of the Board of

President and Representative

Masato Izumihara

Joined the Company General Manager, Corporate Planning Dept. and Investor

Relations & Public Relations Dent Executive Officer

Director, and Executive Officer Director, and Managing Executive Officer

Director, and Senior Managing Executive Officer Representative Director

President & Executive Officer, (current position)

Representative Director

Hideo Tamada

Joined the Company

General Manager of Planning and Management Dept. of Ube Industries Central Hospital 2015 Executive Office Managing Executive Officer

2021 Senior Managing Executive Officer 2022

Senior Managing Executive

(current position)

Hirotaka Ishikawa

Joined the Company General Manager of

Director

Accounting & Finance Dept. (current position)

Director, Executive Officer

Director, Audit and Supervisory Committee Membe

Masayuki Fujii

Joined the Company

General Manager, Corporate Planning Dept.

Executive Officer

Director, and Managing

Executive Officer Director, Audit and

Supervisory Committee Member (current position)

Outside Directors

Takefumi Fukumizu

Joined the Ministry of International Trade and Industry (currently the Ministry of Economy, Trade and Industry)

Director-General, Kansai Bureau of Economy, Trade and Industry

Director-General, Regional Economic and Industrial Policy

Director-General, Small and Medium Sized Enterprise Agency

Deputy Director NEDO Vice President, Japan Alcohol

Corporation

Director, Japan Testing Center for Construction Materials

Advisor, Japan Testing Center for Construction Materials (current position)

Outside Director of the Company (current position)

Tsugio Mitsuoka

Heavy Industries Co., Ltd. (currently IHI Corporation) Executive Officer Vice President of Aero Engine & Space

Operations, IHI Corporation Managing Executive Officer, President of Aero Engine &

Space Operations Director, Managing Executive Officer, President of Aero Engine & Space Operations

President, Chief Operating Officer Representative Director and

President Chief Executive Officer Representative Director and

Chairman of the Board and esident, Chief Executive Officer Representative Director and airman of the Board, Chief Executive Officer

Jananese Aero Engines Corporation (current position) Representative Director and Chairman of the Board IHI Corporation (current position) Chairman, The Society of Japanese Aerospace Companies (current position)

Representative Director

Outside Director of the Company (current position)

Satoko Suzuki

Professor, Faculty of Law, Keio University 2003 Examiner. Certified Public

Accountant Examination New Bar Examination (current position)

Ichigo Hotel REIT Investment Corporation (current position) Outside Director

Bull-Dog Sauce Co., Ltd. (current position)

(current position)

Outside Auditor, Co., Ltd.

Outside Directors and Members of the Audit & Supervisory Committee

Tamesaburo Yamamoto

2010

Director,

Japan Association

of the Law of Trust

(current position)

Director Japan

of the Company

(current position)

Keio University

(current position)

Professor Emeritus

Association of Private

Outside Director and

member of the Audit &

(currently Deloitte Touche Tohmatsu LLC) Registered certified public

accountant Representative, opened

Registered tax accountant

Director, NPO Accounting & Tax Professionals Network Supervisory Director,

Outside Director and member of the Audit & Supervisory Committee of the Company

Helios Techno Holdina

Tatsuya Tanaka

Joined Fujitsu Limited

Director of the Board & Vice President Fujitsu (China) Holdings Co., Ltd.

Corporate Executive Officer Manufacturing Industry Business Unit, Fuiitsu Limited

General Manager, Manufacturing Industry Business Unit, Manufacturing Industry, Logistics, and Sales Group

Corporate Senior Vice President, and General Manager, Asia Region

Corporate Executive Officer, SEVP and General Manager, Asia Region Corporate Executive Officer, SEVP

Chairman of the Board of Directors

Chairman of the Board, Fujitsu Marketing Limited Fuiitsu Japan Limited

Outside Director, Nippon Light Metal Holdinas Company, Ltd (current position)

Senior Adviser, Fujitsu Japan Limited Adviser, Tsukishima Kikai Co., Ltd. (currently Tsukishima Holdings Co., Ltd.)

Outside Director and member of the Audit & Supervisory Committee of the Company

Executive Officers (As of June 29, 2023)

President & Executive Officer Masato Izumihara

Senior Managing Executive Officers

Hideo Tamada Yuki Nishida Keiichi Nagata

Managing Executive Officers

Masavoshi Ota Yoichi Funavama

Hisaaki Yokoo

Senior Executive Officers

Bruno de Bièvre Watchara Pattananiinirundorn Futoshi Takase

Executive Officers

Hirofumi Nonaka Hirotaka Ishikawa Shinya Takahashi

Masahiro Naiki Kazunori Yukimoto Rvo Kawamura







The UBE Machinery Group will operate in line with its new purpose, which is to contribute to better tomorrows for society by caring for the environment and continuing to generate the value that customers demand.

Long-Term Vision

Enhance business value by reinforcing the revenue base while becoming more autonomous and competitive

Goal: Contribute to customers with products and services offering brand value

- Keep developing products that match market needs
- Globally supply services that leverage ICT and AI and realize digital transformation in after-service processes

Principal Products and Businesses

Molding machines

(Die-casting machines, extrusion presses, and injection molding machines)

 Industrial machinery (Kilns, vertical mills, transportation systems, water screening equipment, crushers, and chemical equipment), bridges, and grab buckets

- Machinery services
- Steel products (Billets and castings)
- Control boards

Business Policies under the Medium-Term Management Plan

We seek to enhance the profitability of product businesses by capitalizing on globally expanding market

needs, such as the shift to xEVs and carbon neutrality. At the same time, we look to expand service businesses by developing new proposals and catering to the products of other companies.

The UBE Machinery Group will reinforce corporate governance and establish an independent business operation.

Numerical Targets

(Billions of yen)

	2022		2	2024 (FY)	
	Targets	Results	Targets	Forecasts	Targets
Net sales	106.0	96.9	98.0	108.5	100.0
Operating profit	5.0	5.2	5.5	6.0	6.0

Growth Strategy toward Fiscal 2030

Molding Machine Business

For die-casting machines, we will develop equipment and processes that make it possible to manufacture new, lightweight components for automobiles at low costs. These include battery cases and body and chassis parts that will replace conventional engine and transmission parts with the shift to xEVs. We will expand earnings by supplying these offerings to customers.

For injection molding machines, we will create carbon-neutral, recycling-friendly new products and molding processes. We will pursue new materials approaches that contribute to a better environment.

Employee Spotlight on Strengths

We design a wide range of conveyors, cranes, and other transportation equipment models. We recently completed a testing machine at our facilities for a new air-float conveyor. We are using it to offer specifications that match customer needs and promote our efforts. We will keep supplying products and services that match customer requirements, including air-float conveyors that help lower environmental impacts.

Tomohiro Kawasaki

A staff member: Storage and Transportation System Crane & Bulk Handling Machinery Engineering Gr. Industrial Machinery Engineering Dept. (Bulk Handling & Crusher & Water Screen) Industrial Machinery Headquarters

Strengths

SWOT Analysis

Opportunities

diversifying.

companies' products.

- We have a robust record in serving the automotive, electric power, cement, steelmaking, and other key sectors, and have earned solid customer reputations for our efforts.
- We can draw on numerous domestic and overseas operations to quickly cater to various customer needs in everything from development through after-service.
- With one of the biggest processing facilities in Japan and talented engineers, we deliver manufacturing capabilities that customers trust.

• There are accelerating efforts in carbon neutrality,

to contribute to a better environment.

• The technical requirements of customers for

electrifying and lightening automobiles are

product recycling, and other areas across society

Demand for services and support is robust across

diverse markets, including for global and other

Threats

Weaknesses

 While technological development is progressing in carbon neutrality, digital transformation, and other respects, there are concerns about negative impacts on corporate value, such as from slow sales stemming from delays in delivering product value or addressing technological needs.

• While our broad product lineup is a plus, the small businesses

Countermeasures: We will focus on creating core businesses

that are impervious to economic downturns by developing

technologies and markets in environmental and other fields.

of our offerings expose us to economic fluctuations.

with growth potential and exploring alliances.

- Countermeasures: We will collect timely information from customers and other sources to develop technologies and improve systems.
- Intensifying competition in terms of pricing and delivery owing to rocketing raw materials and fuel costs and longer delivery times for electrical components, as well as delays in customer capital investment decisions, could affect our business.
 Countermeasures: We will secure business opportunities, such as by proposing lower product costs, shorter lead times, and government subsidy usage.



Injection molding machine 1300em III

In Chinese market, we will focus on enhancing earnings by reinforcing our local production structure for large die-casting machines in addition to regular injection molding models. In the promising Indian market, we will use local distributors to expand sales and build our brand image. We will also enhance our ICT offerings to eliminate downtimes, provide preventive maintenance, and swiftly resolve issues.

Industrial Machinery Business

We will expand our business by providing products and services that meet the needs of carbon-neutral and other environment-related markets. We will focus on capturing demand for new energy and expanding sales in that area. Efforts in that regard will include entering the markets for biomass fuel transportation equipment, offshore wind power generation equipment, and ammonia-related facilities. For bridges business, we will help develop social infrastructure by alleviating urban traffic congestion and renovating deteriorating overpasses.

After-Service

We will cater to customer demand at existing facilities,

adding value and stepping up after-service by extending the operating lives and enhancing the performances of facilities by leveraging advanced technology while focusing on control equipment renovations. We will additionally build a structure that enables us to serve customers faster by allocating personnel more flexibly.

Steelmaking Business

We will continue to transition our business structure from quantity to quality and stabilize earnings while taking advantage of our production capacity to manufacture special steel types and specially sized billets and large castings, which are our strengths. We will expand our environmental recycling business as a third key earnings source.

Sustainability-Related Initiatives

We will keep striving to develop and supply equipment and service offerings that help conserve energy and develop processes and facilities that improve customers' recycled materials usage rates. In the steelmaking business, we will contribute to communities and society from the perspective of circular economy. We will do so by recycling scrap steel and melting and detoxifying medical and industrial waste.

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Medium-term Management Strategy

Infinity with Will 2025 ~MUCC Sustainable Plan 1st STEP~ (Fiscal 2023 to 2025)

We will strive to improve corporate value by formulating a vision based on business climate projections for around 2030. A top priority will be to lay the groundwork in keeping with prevailing circumstances.

Mission Continue to support the future of the planet by providing the highest quality with the best technology and services.

Business Climate

- Domestic market gradually declining
 Workforce shrinking
- High coal prices
 Export markets deteriorating
- Southern Californian market growing
- Carbon neutrality accelerating
- Environmental protection initiatives
- Innovative digital technologies progressing

Value Integrity and Sincerity
Teamwork and Group Strength

Our Vision

Challenges and Change

The name uses Mitsubishi UBE Cement's tagline, "Infinity with Will."

- Cost leader in the domestic business
- Continue to grow overseas businesses
- Carbon neutrality leader
- Sophisticated value chain
- Unique technologies for building new value

Vision for 2030

Corporate group with leading technology and high profitability by maximizing the synergistic effects of business integration

Deliver domestic consolidated operating income of at least ¥30 billion and overseas consolidated operating income of at least US\$350 million by expanding domestic and international businesses Consolidated ROE and ROA of at least 8% and 6%, respectively

Business Policies and Growth Strategies under the Medium-term Management Strategy

Strengthening and Cost Reduction of Domestic Cement Business

Become Japan's most competitive cement business by cutting costs, restructuring businesses, and bolstering value chain

- Transact at fair prices
- Become more competitive by optimizing production and logistics
- Tackle energy price hikes by transitioning to a decarbonized society
- Overhaul and rationalize business infrastructure

2. Business Growth in the U.S. and Exploration of New Business Sites

Strengthen vertical integration model based on top share of ready-mixed concrete in Southern California, endeavoring to maximize value and exploring new sites that can be the second core pillar following U.S. businesses

- Cater to growing demand (secure stable supplies of cement and ready-mixed concrete and stable procurement of aggregate)
- Pass on costs
- Become carbon neutral

3. Promotion of Global Warming Countermeasures

Establish and swiftly commercialize advanced

technologies and materialize cement manufacturers' business-oriented decarbonization schemes to cut CO₂ emissions by 40% by 2030 from 2013 levels and become carbon neutral by 2050

(1) Undertake swift energy conversion

Convert thermal energy for firing

- Reach waste-derived fuel ratio of 50% by 2030
- Attain carbon-free fuel ratio of 50% by 2050
 Decarbonize electricity (reduce emissions by
- Decarbonize electricity (reduce emissions by 2030 and fully decarbonize by 2050)

(2) Swiftly commercialize carbon dioxide capture and utilization

Position low-cost, high-concentration CO₂ captured from cement production processes as useful resource and establish carbon dioxide capture and utilization business model by 2030

4. Strengthening and Expansion of Domestic Value Chain

(1) Environment and Energy Business

Generate profits by strengthening energy value chain (expand use of thermal energy alternatives and biomass conversion) through the Ube Coal Center, one of Japan's largest such facilities

- Establish and strengthen energy value chain
- Explore affordable fuel (expand sources)

(2) Mineral Resources Business

Stably procure limestone, maximize added value, and minimize costs

- Optimize organizational structure for mining limestone, secure silica resources by developing mines, and secure procurement sources and resources
- Maximize synergies by integrating Ube Material Industries' aggregate and limestone businesses and optimizing group-wide supply structure
- Expand magnesia applications and quicklime sales channels
- Broaden sales of MOS-HIGE fibrous magnesium oxysulfate by expanding automotive applications
- Enhance supply capacity for ultra-high-purity calcium carbonate for multilayered ceramic capacitors

(3) Ready-mixed concrete operations and distributors

Strengthen business infrastructure, generate stable earnings, and form groups that lead their fields and contribute to domestic cement sales strategy

- Restructure directly affiliated ready-mixed concrete operations and distributors
- Leverage alliances to lead areas
- Tap Group human resources
- Capture low-carbon product demand

5. Enhancement of R&D and Business Management

(1) R&D

Leverage superior development capabilities to innovate technologies and create new value to drive business growth and contribute to a sustainable society

- Global environmental measures: Swiftly acquire technologies to cut and tap CO₂
- Rebuild and strengthen existing businesses:
 Improve profitability and productivity by deepening and leveraging proprietary technologies
- Create new businesses (strengthen and expand growth areas): Promote development and practical application of proprietary technologies and materials

(2) Human resources

We accept diverse individuals and offer rewarding work environments. We achieve group-wide efficiency by strategically reallocating people.

- Allocating people appropriately: Shift people abroad, to R&D operations, and group companies by enhancing operational efficiency and mobilizing individuals
- Secure and develop specialists in such areas as digital transformation (DX) and global operations
- Adopt job-based employment
- Embrace diversity and inclusion

(3) DX strategy

Leverage digital technology and data to support sustainable growth group-wide by deploying digital infrastructure that supports business transformation and establish a competitive edge by continuing to capture new value creation opportunities

 Develop DX structure to formulate strategies and cultivate talent and streamline and automate operations

Contribution to Carbon Neutral Society and Circular Economy

Mitsubishi UBE Cement has made tackling global warming a top Group priority under this mediumterm management strategy. It seeks to become carbon neutral group-wide by 2050 by undertaking a business-centric decarbonization framework unique to that of a cement manufacturer. It is drawing on strengths from concentrating core sites in coastal areas of western Japan, where there are large ports, and technologies and supply chains amassed as a conglomerate. The company will pursue new initiatives to become carbon neutral by collaborating with neighboring regions and other industries and become a top runner in its sector.

Technology	Roadmap	Development & D	Demonstration	Deployment			
toward Carb	oon Neutrality	2022	2025	2	030	2040	205
CO ₂ reduction	on		Energy-saving ar	nd highly efficient equipmen	t		
technology	Energy-derived	Increase of plastic waste	& biomass use	Waste-derived fuel ratio: 50%			
CO ₂		Production & combustio	n of carbon-free fuel			De	ployment
	Process-derived	Low-carbon cement & c	oncrete			Additions to prod	uct lineup
	CO ₂	Low-carbon raw materia	als			Expans	on of use
CCU techno	logy	CCU technology & proce Carbon recycled produc				Commer	cialization
Environmen	tal contribution				Supply of high	n-durable & long-life	products
offsets		Evaluation method of CC	D ₂ uptake in concrete		Consi	deration of CO2 upt	ake effect

● Financial Results and Corporate Data

● Financial Results and Corporate Data

Segment Results Overview

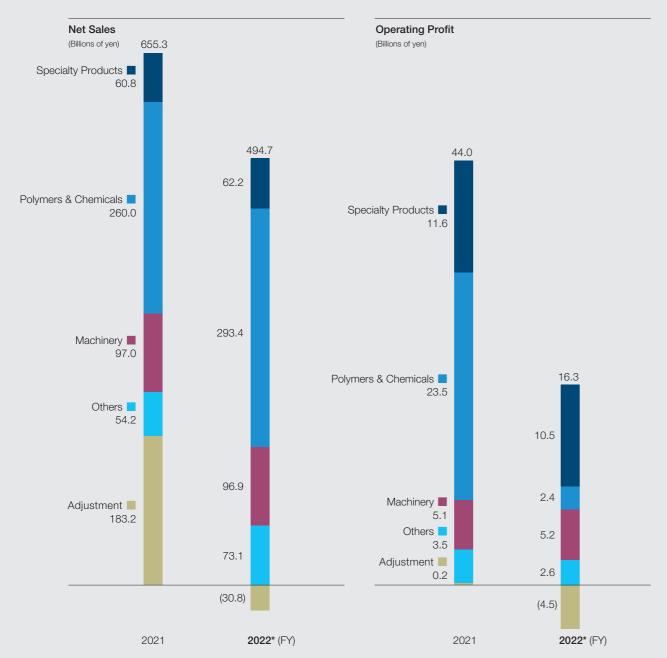
In fiscal 2022, consolidated net sales of the UBE Group decreased, although sales in the Specialty Products Segment remained stable and sales prices in the Polymers & Chemicals Segment rose thanks to strong market prices, the transformation of the cement-related business to an equity-method affiliate significantly affected overall performance.

Operating profit decreased, because rising prices of raw materials and fuel as well as a decrease in sales volume as a result of weak demand had a significant negative impact on the Polymers & Chemicals Segment, in addition to the biennial inspection of the ammonia product factory.

The UBE Group reported ordinary loss, because share of profit of entities accounted for using equity method declined significantly due to the strong impact that the sharp price increase of coal had on the cement-related business, which had transformed to an equity-method affiliate.

Loss attributable to owners of parent was reported despite gain on change in equity due to the separation of the cement-related business, because ordinary loss significantly affected the overall performance.

The graphs on this page show consolidated net sales and operating profit.



Note: In accordance with the integration of the cement-related business into an equity-method affiliate from fiscal 2022, the Company has been reclassified from Chemicals, Construction Materials, Machinery, and Others into the four segments of Specialty Products, Polymers & Chemicals, Machinery, and Others. Pharmaceutical is included in Others. Therefore, the results for fiscal 2021 have also been reclassified into new segment categories for comparison, and Construction Materials is included in Adjustment.

Specialty Products Revenues **UD** and earnings down Billions of yen Change from Fiscal Year 2021 2022 FY2021 Net sales 60.8 62.2 10.5 Operating profit 11.6 (10.0)%

- The Polyimide Business recorded a net sales decrease because of negative impact of inventory adjustments of the COF films for displays, although sales of varnish used on organic EL panels remained stable.
- The Separation Membrane Business recorded an increase in net sales thanks to the continued stable demand for its products, particularly those relating to biogas.
- The Ceramics Business recorded an increase in net sales thanks to strong demand for bearings and products used on substrates.
- The Separators Business recorded a decrease in net sales due to the negative impact of production reduction in the automobile industry that was mainly the result of the shortage of semiconductors.

The Specialty Products Segment as a whole recorded an increase in net sales and a decrease in operating profit. While demand for separation membranes and ceramics remained strong, the performance of the Polyimide Film Business was affected by inventory adjustment, and the Separators Business was negatively influenced by production reduction in the automobile industry.

Polymers & Ch	and	Revenues up earnings down	
	Billions	of yen	Change from
Fiscal Year	2021	2022	FY2021
Net sales	260.0	293.4	12.8 %
Operating profit	23.5	2.4	(89.7)%

Performance Polymers & Chemicals Business

- The Composites Business recorded a sales increase despite being affected by the production reduction in the automobile industry, because of rising sales prices supported by price increases in raw materials such as caprolactam.
- Net sales of the Nylon Polymer Business were almost the same as the previous fiscal year despite sales price increases mainly due to the rising market price of caprolactam, as demand for products such as nylon film for food packaging was weak.
- The Caprolactam & Ammonium Sulfate Business recorded a net sales increase because of a higher sales price as the result of higher market prices for raw materials such as benzene and ammonium.
- The Industrial Chemicals Business recorded a net sales increase depite a decrease in shipment volume due to the biennial inspection of the ammonia product factory. Sales prices of products rose thanks to higher market prices of raw materials.
- The Fine Chemicals Business recorded a sales increase, because sales prices rose due to

rising raw materials prices.

Elastomer Business

 The Elastomer Business recorded an increase in net sales, as sales prices rose thanks to higher market prices of raw materials such as butadiene.

As a whole, net sales increased, but operating profit decreased in the Polymers & Chemicals Segment. While sales prices rose, rising raw materials and fuel prices as well as a decrease in sales volume due to weak demand had a significant negative impact, in addition to the biennial inspection of the ammonia product factory.

Machinery	Revenues down and earnings up			
	Billions of yen		Change from	
Fiscal Year	2021	2022	FY2021	
Net sales	97.0	96.9	(0.1)%	
Operating profit	5.1	5.2	1.7 %	

- The Molding Machine Business recorded an increase in net sales, because sales increased as demand from the automobile industry recovered.
- The Industrial Machines Business recorded a decrease in net sales, because a series of big projects to supply conveyors used in the electric power industry were completed.
- The Steel Products Business recorded an increase in net sales due to rising sales prices mainly as a result of rising raw materials prices.

In the Machinery Segment, both net sales and operating profit were almost the same as the previous fiscal year as a whole, because a decrease in net sales in the Industrial Machinery Business was offset mainly by an increase in sales of molding machines and rising sales prices of steel products.

Others	Revenues up and earnings down			
	Billions of yen		Change from	
Fiscal Year	2021	2022	FY2021	
Net sales	54.2	73.1	34.8 %	
Operating profit	3.5	2.6	(25.5)%	

- The Pharmaceuticals Business recorded a net sales increase despite a decrease in royalty revenues, mainly because of positive impact by acquisition of a contract development and manufacturing organization (API Corporation) in December 2022.
- The Power Producer Business recorded an increase in net sales, because power supply to the Cement-Related Business was recorded as a gain in sales and prices also rose.

The Others Segment as a whole recorded an increase in net sales and a decrease in operating profit. Although some factors such as the price rise of sold electric power contributed to the overall performance, a decrease in royalty revenues of the Pharmaceuticals Business had a significant negative impact on the overall segment.

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Investor Information

UBE Corporation

(As of March 31, 2023)

	p	(AS 01 IVIAICIT 51, 2025)		
Head Office	*	Seavans North Bldg., 1-2-1, Shibaura, Minato-ku, Tokyo 105-8449, Japan Phone: +81-3-5419-6110 Fax: +81-3-5419-6230		
	Ube Head Office	1978-96, Kogushi, Ube, Yamaguchi 755-8633, Japan Phone: +81-836-31-2111 Fax: +81-836-21-2252		
Establishment		1897		
Consolidated Companies		51 (36 consolidated subsidiaries and 15 equity-method affiliates)		
Fiscal Year		April 1 to March 31		
Common Stock		Outstanding: 97,040,569 shares (excluding treasury stock of 9,159,538 shares)		
Paid-in Capital		¥58.4 billion		
Number of Shareholders with Voting Rights		57,865		
Annual General Shareholders' Meeting		June		
Stock Exchange Listings		Prime Market of Tokyo Stock Exchange (Code: 4208) Fukuoka Stock Exchange		
Transfer Agent and Share Registrar		Mitsubishi UFJ Trust and Banking Corporation, 1-4-5, Marunouchi, Chiyoda-ku, Tokyo 100-8212, Japan		
Independent Audi	itors	Ernst & Young ShinNihon LLC		

Major Shareholders Percentage of Share Units Owned 1 The Master Trust Bank of Japan, Ltd. (Trust Account) 16,778,000 17.29% 2 Custody Bank of Japan, Ltd. (Trust Account) 6,731,400 6.94% 3 SUMITOMO LIFE INSURANCE COMPANY 2,000,000 2.06% 4 DFA INTL SMALL CAP VALUE PORTFOLIO 1.98% 1,918,054 5 CITY INDEX ELEVENTH CO.,Ltd 1,773,700 1.83% 1,600,009 6 Nippon Life Insurance Company 1.65% 7 THE YAMAGUCHI BANK, Ltd. 1,548,264 1.60% 8 JP MORGAN CHASE BANK 385781 1,270,545 1.31% 9 The Norinchukin Bank 1,237,409 1.28% 10 STATE STREET BANK WEST CLIENT - TREATY 505234 1.201.100 1.24%

Shareholder Composition

Securities Companies 2.88%



Other Domestic Companies 6.37%

Note: As UBE holds 9,159,538 shares of treasury stock, we are excluded from the major shareholders stated above. Percentages of voting rights are calculated by subtracting the number of shares of treasury stock.

Stock Price	ce				
(Yen)					
4,000					
3,000	\				
2,000		\			
1,000					
0	2019	2020	2021	2022	2023

UBE's Inclusion in ESG Investment Benchmarks

(As of June 2023)









2023 CONSTITUENT MSCI JAPAN ESG SELECT LEADERS INDEX

2023 CONSTITUENT MSCI JAPAN EMPOWERING WOMEN INDEX (WIN)

Note: The inclusion of UBE Corporation in any MSCI index, and the use of MSCI logos, trademarks, service marks or index names herein, do not constitute a sponsorship, endorsement or promotion of UBE Corporation by MSCI or any of its affiliates. The MSCI indexes are the exclusive property of MSCI. MSCI and the MSCI index names and logos are trademarks or service marks of MSCI or its affiliates.



Morningstar Japan ex-REIT Gender Diversity Tilt Index (GenDi J)

Financial Results and Corporate Data

About this Integrated Report

Executive Officer Declaration

Thank you for reading the UBE Group's Integrated Report 2023.

This publication presents the UBE Group's comprehensive strengths to help you understand how it will grow as a corporate group centered on specialty chemicals to achieve its Vision for 2030. It contains growth strategies for key specialty chemicals products as well as strengths including R&D, intellectual property, digital transformation, human resources, and environmentally friendly products and technologies to showcase our comprehensive strengths.

In producing this report, we presented top management with feedback from annual meetings with several institutional investors about this publication. We identified issues that needed addressing before we started planning this edition. At the production stage, we collaborated with relevant departments to gather the most up-to-date and appropriate information, editing it as intended.

I hereby declare that the editorial process and the published content are valid and genuine. I hope that this report will help you understand the UBE Group's ability to generate value over the medium through long terms.

Hirotaka Ishikawa

Executive Officer, CFO, General Manager of Accounting & Finance Dept. with responsibility for Group Management Dept. and Corporate Planning Dept.

Reference Guidelines -- International Integrated Reporting Framework of the Value Reporting Foundation (VRF) Ministry of Economy, Trade and Industry (METI) Guidance for Integrated Corporate Disclosure and Company-Investor Dialogue for Collaborative Value Creation Reporting Period This report covers fiscal 2022, ended March 31, 2023, and also includes activities and information before and after that term. - UBE Corporation consolidated subsidiaries, and non-consolidated subsidiaries Scope of Coverage

March 31 Fiscal Year-End of the Company

The fiscal year ended March 31, 2023, is fiscal 2022.

Forward-Looking Statements

website

Detailed

information

This report contains forward-looking statements regarding UBE's plans, outlook, strategies, and results for the future. All forward-looking statements are based on judgments derived from information available to the Company at the time of publication.

Certain risks and uncertainties could cause the UBE Group's actual results to differ materially from any projections presented in this report. These risks and uncertainties include, but are not limited to, the economic circumstances surrounding the Company's business, competition, product development, exchange rates, and revision of related laws and regulations.

The UBE Group publishes information for its stakeholders through a variety of media.

Quality Assurance)



materials are available in the Investor Relations section of the UBE Group's website:



Information regarding sustainability, environmental and safety initiatives, compliance, risk management, corporate governance, human rights and labor, and quality are available in the Sustainability section of the UBE Group's website:

UBE Corporation

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https://www.ube.co.jp/ube/en/



