



MITSUBISHI MATERIALS communication magazine

SPECIAL FEATURE

TAKING ON THE CHALLENGE OF CARBON NEUTRALITY

SPECIAL FEATURE TAKING ON THE CHALLBNGE **OF CARBON** NEUTRALITY

Aiming for 100% self-sufficiency in renewable energy

Using limited resources carefully and creating a sustainable society with clean energy are common challenges for all people living on earth.

In the Medium-term Management Strategy FY2031. Mitsubishi Materials has declared its commitment as "For people, society and the earth, circulating resources for a sustainable future" and is working on utilizing renewable energy and reducing greenhouse gas (GHG) emissions. In this issue, we will delve into Mitsubishi Materials' journey of tackling the challenge of carbon neutrality.

For more information on Medium-term Manageme Strategy 2031 please see our website

2020



MITSUBISHI MATERIALS' ZERO EMISSIONS ROAD MAP

Mitsubishi Materials has set its target year for achieving carbon neutrality as the fiscal year ending March 2046, five years ahead of the government's target year of the fiscal year ending March 2051, and has established GHG emission reduction goals. Additionally, by the fiscal year ending March 2051, Mitsubishi Materials aims to achieve renewable energy generation equivalent to the electricity consumed internally, thereby achieving 100% self-sufficiency in renewable energy





ZERO CARBON ACTION Creating clean energy

As part of its efforts to achieve a sustainable society, Mitsubishi Materials is actively pursuing initiatives to both create clean energy through renewable energy generation and reduce GHG emissions. Here, we will introduce the initiatives to create clean energy.

Geothermal

Utilizing the Knowledge Gained from Mining Development

Our history of geothermal power generation dates back to our management of coal and metal mines. While involved in mining development, we generated the necessary electricity from geothermal sources and cultivated knowledge of developing and utilizing geothermal energy ahead of other companies from the early stages of domestic introduction. Based on over 50 years of geothermal development experience, ranging from the investigation of geothermal resources to the construction and operation of power generation facilities, we are advancing stable renewable energy development and power generation projects.





Solar Utilizing **Vacant Land**

Utilizing vacant land owned by Mitsubishi Materials Group, we jointly established LM Sun Power Co., Ltd. with Mitsubishi HC Capital Inc. and launched our solar power business in 2013. By 2017, power plants had been constructed and commenced operations in five locations: Makabe (Ibaraki Prefecture), Fukui (Fukui Prefecture), Torigoe (Fukuoka Prefecture), Irigama (Miyagi Prefecture), and Yabuki (Fukushima Prefecture). Additionally, in recent years, our company has made additional investments in companies developing perovskite solar cells, contributing to the proliferation of solar power generation.



Mitsubishi Materials and RENOVA, Inc. are planning a wind power generation project in Imakane Town, Hokkaido. We will effectively utilize our company-owned forests as new sites for the renewable energy business. Our aim is to commence commercial operations by 2031.

Hydro

Over 100 Years of **Operational** Experience

Mitsubishi Materials has a long history of hydroelectric power generation, dating back to 1898. In Akita Prefecture, we constructed seven hydroelectric power plants by 2021, with the aim of supplying power for mining operations and other purposes. Furthermore, in 2022, the Komatagawa New Hydroelectric Power Plant, the first in 69 years in Akita Prefecture, began operations. Currently, Mitsubishi Materials has a total of five hydroelectric power plants in Akita Prefecture, contributing to the stable supply of electricity to the local community.



Leveraging **Company-Owned** Forests

Converting Each Site to Renewable Energy

In our Metals business, which accounts for approximately 60% of domestic power consumption within Mitsubishi Materials Group, there are plans to switch all purchased electricity to renewable sources by the fiscal year ending March 2029. Additionally, we have installed solar power generation facilities at Akashi Plant (Hyogo Prefecture) and Ecomanagement Co., Ltd Myoho Mine Office (Wakayama Prefecture) through on-site services (PPA model) and are using the electricity generated for our business activities.

ZERO CARBON ACTION



The image is for illustration purposes only.

Advancing R&D to Reuse CO₂ with the Power of Technology

Mitsubishi Materials is advancing research and development on carbon recycling processes. In experiments conducted in 2018, we successfully decomposed CO₂ and recovered fine carbon nanomaterials. These carbon nano-

materials hold promise for various applications such as tire reinforcement materials and battery materials. Moving forward, we will continue to create innovative processes that enable the reuse of CO₂.



Carbon nanomaterials

Reducing GHG emissions

Mitsubishi Materials is advancing initiatives to reduce GHG emissions from a wide range of perspectives, including new R&D and management of company-owned forests. Here, we will introduce efforts to reduce GHG emissions.

Producing Environmentally Friendly Products and Technologies

Developing environmentally friendly products and technologies is also one of our strengths. The "Mitsubishi Process" for continuous copper smelting, a world-renowned technology, is a pollution-free system that prevents the emission of sulfur dioxide gas. Additionally, our recycled metal brand, "REMINE," a first of its kind in Japan, offers non-ferrous metal products with higher reliability, achieved through calculations of recycled material content in compliance with international standards and verification by third-party organizations. Starting from January 2024, we have begun selling the first batch of REMINE products, including Refined Tin with 100% recycled material content and Refined Lead with over 99.6% recycled material content.



Contributing to the Prevention of Global Warming through Environmental Conservation of Materials' Forests

Mitsubishi Materials owns 14,000 hectares of Materials' Forests in Japan, and timber production and afforestation are carried out while conserving biodiversity. Forests play an important role in environmental conservation through carbon fixation and other mechanisms. Among them, our Teine Forest (Hokkaido) has been recognized for its adoption of a work system with low environmental impact on forest management and has received certification as a Natural Symbiosis Site by the Ministry of the Environment.





Mitsubishi Materials' recycled metal brand REMINE





Carefully planting trees one by one by hand





Project.1 Construction Project of Appi Geothermal Power Plant

Passing on Clean Energy to the Future, along with **Technical Capabilities and Aspirations for the Next** Generation

In Japan, a country blessed with abundant geothermal resources, there are high expectations for the possibilities of geothermal power generation, which can stably supply electricity regardless of weather conditions. For more than 50 years, Mitsubishi Materials Group has concertedly worked to develop geothermal power generation. One of its latest projects is the Appi Geothermal Power Plant, which commenced operation in March 2024 in Iwate Prefecture. Currently, the plant generates 14,900kW of electricity, equivalent to the consumption of approximately 36,000 general households. It is managed and operated by Appi Geothermal Energy Corporation (AGE), which is jointly funded by three companies, including Mitsubishi Materials. In this article, two members from Mitsubishi Materials and AGE describe the history of challenges leading up to the beginning of operation and share their vision for the future.



Gaku Sasaki Chief, Engineering Department Appi Geothermal Energy Corporation

08

Tatsumi Abe

General Manager, Geothermal Business Development Dept. Renewable Energy Business Div. Mitsubishi Materials Corporation



What broke the deadlock was a commitment to changing minds

----- Please tell us about your career to date and the roles you played in the Construction Project of Appi Geothermal Power Plant.

Abe: Since joining the company, I have spent over half of my career working in the geothermal business. It was in 2019 when I was asked to join this project as the leader of the Drilling and Reservoir Section. At that time, I was involved in the operation management of Sumikawa Geothermal Power Plant in Akita Prefecture, after completing a 10-year overseas assignment in Canada and Chile.

Geothermal power generation involves extracting hot, high-pressure water and steam from geothermal reservoirs about 2,000 meters underground. This water possesses high energy due to being heated by magma, and the steam can be used to rotate turbines and generate electricity. This is why geothermal power generation development requires drilling production wells^{*1} and reinjection wells^{*2}. As the leader of the Drilling and Reservoir Section, I was responsible for successfully completing the drilling work for these wells.

Sasaki: I was also in charge of drilling

*1 Production well: A well that discharges steam from the geothermal reservoir *2 Reinjection well: A well that returns hot water to the

geothermal reservoir

wells with Mr. Abe. Actually, around my second year with the company, I managed the steam equipment of Sumikawa Geothermal Power Plant under Mr. Abe's supervision. So, this is my second time working with him. Later, in 2020, I was seconded from Mitsubishi Materials to AGE, which led me to participate in this project from a different position. Abe: Mr. Sasaki and I have many things in common. such as having studied in the same department at the same university. As a result, we have an easygoing relationship. Speaking of Mr. Sasaki, he also played an active role in handling fire department-related procedures. In September 2019, just a month before the start of the drilling work, we encountered a setback when our method for supplying fuels for the drilling equipment, which we had successfully executed at another power plant, was not approved by the local fire department.

Sasaki: Fortunately, the short construction period in the fiscal year ended March 2021 allowed for another method. However, we were scheduled to conduct long-term work in the fiscal year ended March 2022, so it was necessary to negotiate with the local fire department. It was my first time handling fire department-related procedures, and I was also uneasy about the possibility of being forced to review the drilling method, which would significantly increase the burden for the drilling company and costs for our



company, or, worst case scenario, that the work might have to be canceled. Therefore, I repeatedly visited the fire department and strived to understand their intentions. I also had discussions with the drilling company and contemplated the best way forward for all stakeholders. As a result of my efforts. the fuel supplying method I submitted three months later was approved, leaving me with a great sense of accomplishment.

Abe: Just exchanging documents won't change people's minds. Mr. Sasaki's commitment regained the trust of the fire department, which was once almost lost. It was truly a tough task, but you did it.

Sasaki: The success was thanks to your abundant experience and support. Thank you.

During the four-year battle against the magma, **SCQDE** was our rock

----- In the course of this project, what kinds of challenges have you faced?

Abe: These four years were full of challenges, but the largest was drilling the wells. We spent about three months drilling each one. During the final phase, the temperature exceeded 200°C, so it truly felt like a battle against the magma while we drilled. In this project, we drilled a total of seven wells, and we encountered one unexpected trouble after another. No matter how thorough the investigation, it's impossible to know everything that goes on underground from the surface, so we were unable to eliminate all drill-

ing risks in advance.

For example, there is a risk that the steam won't discharge after drilling, or conversely, that magma-heat steam suddenly blows out in the middle of drilling. We do our best to adequately



consider and prepare for these incidents in advance with stakeholders, but it's frightening to be going up against nature. Nevertheless, we must extract enough steam to operate a geothermal power plant at full scale. That is our mission. In this context, Mr. Sasaki and other young engineers worked to overcome the situation.

Sasaki: To reduce drilling risks, even by a little, we attempted to visualize the geological structure by utilizing the latest modeling tools. We also anticipated the location of the geothermal reservoir based on the data and drilled accordingly. When we succeeded in accurately digging it up, I felt relieved from the bottom of my heart.

In addition to this, there were many other tasks to manage, such as discussions with the drilling company, process management, cost management, and more. We maintained close communication with stakeholders and strived to smoothly carry out the project.



Abe: The greatest contribution of Mr. Sasaki's team was to protect the safety of workers. Mitsubishi Materials Group has a slogan called SCQDE, which stands for Safety & Health, Compliance & Environment, Quality, Delivery, and Earnings. We always keep these points in mind during construction projects, with safety being the utmost priority.

Since the commencement of work in August 2019, I consistently returned to this principle every time we encountered challenges, striving to prioritize safety while balancing other factors. When I struggled to make decisions, even after listening to stakeholder opinions and carefully considering all aspects together, I always went back to SCQDE to move forward. Sasaki: So, SCQDE was your rock and the guide to follow when you felt lost. I will once again engrave it in my heart.

Harmony with the community can make or break a geothermal project

— What are the strengths of Mitsubishi Materials in geothermal power generation development?

Abe: Mitsubishi Materials has been engaged in the geothermal power generation business for more than 50 years, since starting the operation of Onuma Geothermal Power Plant in Akita Prefecture in 1974. The expertise in geothermal power generation that we have inherited during that time is our greatest strength. Additionally, our ability to handle everything from exploration to operation internally by leveraging the comprehensive capabilities of the Group is a unique strength for us.

Sasaki: We also excel in establishing sound relationships with community stakeholders, such as local residents and municipalities. When starting a new geothermal power generation project in a new area, sharing case studies with community members can help ease their concerns to some extent.

— What are the expectations that communities and society have for Mitsubishi Materials?

Abe: With the Japanese government aiming to achieve carbon neutrality by 2050, many companies are required to take actions to contribute to this goal. The same is true for our company. Mitsubishi Materials has set the goal of achieving carbon neutrality by the fiscal year ending March 2046, five years earlier than the target. We aim to achieve practically 100% self-sufficient renewable energy generation by producing enough renewable energy to offset our internal electricity consumption. Mitsubishi Materials handles not only geothermal but also hydroelectric and solar power generation, but as the leader of the Drilling and Reservoir Section. I would like to further invigorate geothermal development.

Sasaki: Japan ranks third in the world in terms of geothermal resources. However, many of the locations blessed with geothermal resources are in the middle of national parks or near hot spring resorts. This prevents Japan from fully utilizing them and is why it is important to build consensus with communities.

Abe: Maintaining harmony with communities is essential in geothermal power generation development. We must avoid situations where geothermal development projects disadvantage local residents, hot spring businesses, and other parties at all costs. Our duty is to ensure sustainable development and stable operations, and to sincerely engage with the community, explaining as many times as necessary until they are satisfied.

Sasaki: As a member of AGE, which operates and manages the Appi Geothermal Power Plant, I will strive to always stay aware of that. To that end, we will continue monitoring the geothermal reservoir every year. Furthermore, I would like to explore ways to contribute to communities by utilizing the energy gained through geothermal power generation.

The future lying beyond stable operation

Sasaki: In the Medium-term Management Strategy FY2031 ("FY2031 Strategy"), Mitsubishi Materials announced "Further expansion of geothermal power generation business." While expansion is crucial, operating and managing existing geothermal power plants is equally important. Therefore, I will first focus on the stable operation of the Appi Geothermal Power Plant.

Operating a large-scale power plant like the Appi Geothermal Power Plant presents a rare opportunity. I will thoroughly absorb this experience and knowledge to utilize it for the next geothermal power generation development project.

Abe: Starting operation is not our end goal, but it is important to ensure stable operation while maintaining high standards of output. As one of the members involved in the geothermal power generation business, I strongly resonated with what Mr. Sasaki said.

Looking back, our company has been working on the Construction Project of Appi Geothermal Power Plant for over 20 years, starting from the investigation stage. This means that the blood, sweat, and tears shed by our predecessors over such a long period have finally paid off. Now, it's our turn to pass on everything we have, including knowledge, experience, and aspirations, to the next generation. Going forward, I am eager to contribute to the development of the geothermal power generation business by nurturing future generations.



Project.2 Imakane Wind Power Project

Entering into Wind Power Generation to Bring New Value into Our Company-Owned Forests

Mitsubishi Materials and RENOVA, Inc. are planning a wind power generation project in Imakane Town, Hokkaido. Its total output will be up to 113,400 kW, and the two companies aim to commence the construction of the facility in May 2028 and commercial operations in November 2031. Mitsubishi Materials will utilize its own forests as a new business site for renewable energy.

WIND F



Kenta Asano Energy Business Development Dept. Renewable Energy Business Div. Mitsubishi Materials Corporation

Contributing to the realization of carbon neutrality through development in harmony with the local community

Since the wind power plant will be established in an open area within the ridge of our company-owned forest, people will be able to see the wind turbines from neighboring fields and urban areas once the project is completed. We aim to create a business that brings joy to the local citizens through the presence of the wind turbines.

We are carrying out the project on a day-to-day basis, believing that our company's goal of achieving carbon neutrality by the fiscal year ending March 2046 will be realized through community-based business developments like this one.







Hitoshi Saito

Head of Project Development Division RENOVA, Inc.

Collaborating and inspiring each other to establish a recycling-oriented society

I'm currently working on surveying wind conditions, analyzing data, and conducting other tasks that are part of the initial stage of feasibility studies. Originally, our company's geothermal development gave us an opportunity to start the project together with Mitsubishi Materials. We are impressed by Mitsubishi Materials' strong sense of ownership toward the realization of the project, as well as the diversity and depth of talent among its employees. These factors motivate us to display our own strengths. Renewable power generation, such as wind power, is a means of realizing a sustainable society. Let's work together toward achieving a recycling-oriented society.



Visiting a Town with MM

Ms. Stride, a woman traveling around the world, visits a town where a Mitsubishi Materials Group hub is located.

Toi Marine Tourist Corporation edition

In this edition, we will introduce Toi Marine Tourist Corporation, who operates the Toi Gold Mine Theme Park.

Toi Gold Mine is located in the western area of the Izu Peninsula in Shizuoka Prefecture. In the past, Tokugawa leyasu focused on the mine's development, and it boasted a high production of gold as one of Japan's major gold mines. Since its closure, the mine site has been used as a tunnel tour and has been visited by many tourists.





hizuoka

Izu Citv

Toi Marine Tourist Corporation

Navigator

Ms. Stride

A woman in her late

twenties who enjoys

strolls around town.

factory tours and

Established in 1917 for gold mining operations in Toi. Closed in 1965 due to ore depletion and re-opened in 1972 as a tourism business. The business is currently operating a tunnel tour and a gold museum at which ore that was excavated from the mine and valuable documents are on display. The world's largest gold bullion, holding a Guinness World Record, is on display at the gold museum. The bullion has been garnering lots of attention from the media due to the recent soaring prices of gold.

Guide

Ayumi Kokubu Section Manager of Toi Gold Mine

Joined the company in 1997. Is in charge of the planning and development of Toi Gold Mine's souvenirs. Her recommended dish is *tokoroten*, a gelatin made from marine algae and a local specialty of Nishi-Izu. Her favorite local sight is watching the sunset at Tabibito Misaki Cape

Tunnel tour Looking back at underground

operations of the Edo period

Inside the tunnel are dolls that move, recreating the scenery of the mine in the Edo period. Visitors can watch the excavation work of the time period. In addition, the San Shrine and the Gold Springs inside the tunnel are popular spots believed to bring good financial luck.







250 kg! The world's biggest gold bullion

The gold museum's most featured exhibit is the world's largest gold bullion, refined at Naoshima Smelter & Refinery in 2005. Visitors are allowed to touch it, so please experience its power, weight, and touch.



Get rich quick with hot spring gold panning!

At Toi Gold Mine, you can attempt gold panning, or sifting for pieces of pure gold in sand. Searching for the small pieces of gold is difficult work. It i a fun attraction in which even adults become consumed!



Nishi-Izu is full of beautiful sights

Koganezaki Crystal Park

In addition to the glass, the kaleidoscope display is also popular!

Glass art from around the world is ex-

hibited and a handmade glasswork ex-

perience is held at Koganezaki Crystal

A large collection of unique souvenirs based on gold

The most popular item is the *junkin mori-mori* soft serve, soft serve ice cream lavishly wrapped with an edible gold leaf. The *maizokin no kintsuba* is a humorous souvenir with small gold coins (chocolate) 4hidden at the bottom. It makes you feel like a villain.

Junkin

mori-mori

soft serve

Toi-zakura light-up

Izu is famous for Kawazu-zakura, but the Toi-zakura bloom in early into the new year. The light-up held annually from January in the courtyard at Toi Gold Mine is a spectacular sight!

Koibito Misaki Cape

Koibito Misaki Cape is a well-known relationship power spot in Izu. Once visitors arrive at the end of the long road, they can see a scenic view of both Mt. Fuji and Suruga Bay.

said that love will blossom if you ring the bell

"Providing as many optimal solutions as there are customers"

DIAGEDGE

Hayato Taki

Oyama Sales Office Hokkaido, Tohoku, Joushin-Etsu Region Domestic Sales Dept., Sales Div., Metalworking Solutions Company

Aiming to transition from "product sales" to "solution sales"

Mitsubishi Materials' tools, which serve as indispensable instruments at automobile, aerospace, and other manufacturing sites, are also the lifelines that support these industries. Contributing to the future of manufacturing by providing high-quality tools is the mission that I have worked on in sales since I joined the company seven years ago.

It sounds cool to put it this way, but sales is a rougher job than one would expect. As I am in charge of a wide range of customers, from small family-operated factories to large corporations, understanding the businesses of each company and their potential needs is rather difficult. There were times where they would not listen to what I had to say when I visited them. Realizing that I would not be able to start without first getting people to trust me, I began paying frequent visits to customers.

Once I built up relationships to the point where customers would consult with me thanks to these frequent visits, I found out that I was not prepared with the techniques to solve my customers' issues. That is why I hammered into my head information on our products, a range of 37,000 items, and implemented optimal proposals. Sales followed naturally, which led to me becoming more confident as a salesperson.

Mitsubishi Materials' Metalworking Solutions business committed to "solution sales to manufacturing sites" in the Medium-term Management Strategy 2031. I have noticed that no matter how good the product is, customers will not choose it if it is not the optimal solution

> Mr. Taki tries to respond quickly to internal and external inquiries. He says that this is because, "People will not be moved if I cannot convey how serious I am. I want to convey how much effort I am putting in by responding with a sense of speed."

for them. The goal of transitioning from "product sales" to "solution sales" also

emerged.

such as myself.

The breakthrough was the collective power of the Group

When I was involved in the development of a special tool for manufacturing engine components after receiving an order from my customer, an agricultural machinery manufacturer, around a year and a half ago, I realized firsthand the inability to progress with my power alone. This customer had been using our tools for a long time, but as time went on, they began requesting tools with higher performance and longer lifespans. The development of this tool became a competition due to a series of new product proposals from competitors. The requirements for this tool were complicated as engine components are ultra-precise components. Furthermore, there were even strict requirements for the tool's lifespan, making the situation unmanageable for a single salesperson

The breakthrough came from the existence of the technical center, which provides comprehensive tool solutions, and my colleagues responsible for tool design and development. We spent around six months continuously thinking together about how we could develop a tool that has a long lifespan and achieves efficient and highly precise processing. I visited the customer multiple times together with engineers from the technical center, and repeatedly carried out analysis and simulations on machining that would be compatible with the machining equipment being used by the customer. As a result of

these efforts, we were able to develop the optimal tool for the customer. When the tool was adopted, I felt relief from the bottom of my heart at the fact that we were able to maintain our relationship with the customer. Furthermore, this experience confirmed to me that Mitsubishi Materials' unique strength, which is not possessed by competitors, is the collective power of Mitsubishi Materials Group.

I want to become the driving force behind the company's growth by constantly upgrading myself

One thing that I want to accomplish for the company is making Mitsubishi Materials into a company where customers say, "You have much momentum." I believe that aggressive companies that cultivate new markets, explore new customers, and continue to take on the challenge of creating innovative products will increase competitiveness naturally and be able to adapt to changes in the market. To do this, I first want to increase my presence. What I want to focus on is having a broad perspective. While listening to other salespeople and attending monthly sales meetings, I want to absorb the latest examples of solutions and knowledge about technologies and constantly upgrade myself to engage with customers. In the future, I want to become the driving force behind the company's growth by utilizing the insights and experience cultivated through contact with customers and actively participating in the departments responsible for management and sales strategies.

The Power of Materials Builds Society

Aircraft

"Coated cemented carbide grade" that displays unrivaled machining performance

It is not an exaggeration to say that the technical capabilities of Mitsubishi Materials enable us to use aircraft safely. Our coated cemented carbide grades are used for machining engine and other components that use superalloys with heat and pressure resistance.

A superalloy is a type of difficultto-cut material that is prone to damage from wear and welding during machining. Recently, tools with higher efficiency and longer lifetimes are required as the market size of the aircraft industry is expected to expand. We have developed an innovative coating technology named "Al-Rich coating" to meet this demand. This coating technology provides extremely superior wear and welding resistance for superalloy machining. As a result, we supply tools with long lifetimes and superior cutting performance to the world.

Our mission going forward is to further enhance Al-Rich coating and to supply society with coated cemented carbide grades that achieve ultralong lifetimes and ultrafast machining, exciting our customers. Our Al-Rich coating will contribute to the further development of the aircraft industry.

PICK UP ·····

MV9005

MV9005 is a product with Al-Rich coating and is the only tool for turning in the world that has adopted CVD-AlTiN coating. It shows an excellent lifetime that is around three times longer than conventional products, and is expected to enhance machining efficiency significantly as it supports highspeed machining.

For disease risk detection during dental checkups

Using biosensors, it is possible to check oral bacteria in a short period of time during dental checkups. Within the types of oral bacteria, there are some that can increase the risk of heart disease or diabetes. It is expected that promptly checking them and providing risk information and prevention methods may help to improve self-care.

\ Please take part in the WITH MATERIALS survey /

We would love to hear your honest thoughts and opinions about this issue of "WITH MATERIALS" and what you would like to see covered in the future.

https://forms.office.com/r/lskXmzSazh

Februarv

Awarded the Silver Prize for the First Time at the 5th ESG Finance Awards Japan

We have been awarded the Silver Prize (the Minister of the Environment Award) for the first time in the Environmentally Sustainable Category of the 5th ESG Finance Awards Japan, sponsored by the Ministry of the Environment. In line with formulating the Medium-term Management Strategy FY2031,

we set out "Our Commitment" of "For people society and the earth circulating resources for a sustainable future," and received the Silver

Prize in recognition of the value to the alobal environment that we aim to create through our business. We will continue to actively engage in ESG activities in order to achieve sustainable corporate value improvement.

Award ceremony

March

Diffusion layer that

discharges oxygen

Layer that increases

catalyst utilization

人的資本経営品質

2023

We have been awarded Supplier Engagement

international NGO

Leader in the Supplier Engagement Rating, which

is related to climate change, conducted by CDP, an

Mitsubishi Materials Group implements various

measures toward achieving carbon neutrality by the

forts, we work together with our suppliers to reduce

fiscal year ending March 2046. As part of these ef-

GHG emissions throughout the supply chain.

2024 Australian Gold Kangaroo Coin with King Charles III Design Released

The Australian Gold Kangaroo coin is a legal tender whose grade and weight are guaranteed by the Government of Western Australia, and it circulates worldwide due to its reliability. The 2024 version of the Gold Kangaroo coin is the first to have a design with King Charles III, who succeeded to the throne of the United Kingdom in September 2022 The Gold Kangaroo coin, whose production began in 1989, is very well received as its design is changed every year, and because of the charm of the lovable kangaroo relief and its stunning brilliance.

March

Co-hosted Event Held on International Women's Day

On March 8, Internation al Women's Day, eight non-ferrous metal compa nies and the Japan Mining Industry Association held DEI Forum 2024: The Beginning of Creation and Change, a co-hosted event

Panel discussion

promoting DEI (Diversity, Equity, and Inclusion) activities. This was the first time the event was co-hosted across corporate boundaries in order to promote understanding and awareness of DEI and accelerate efforts across the industry

Editor/Publisher: Corporate Communications Dept.,

A Materials' Forest where diversity has been protected thanks to constant observation and care for the trees (Abira Town, Hokkaido)

Reasons for valuing forest diversity

Protecting forest biodiversity will bring about benefits for our lives as well. For example, increasing the variety of trees will lead to the conservation of soil and water and the prevention of disasters. This is because various types of trees spreading their roots in a complex manner enhances the ability to maintain soil and water. Furthermore, increasing the variety of lumber that can be provided to society will lead to the reduction of environmental impact as the local production and consumption of domestic lumber will progress, thereby reducing the energy used for transporting lumber from overseas.

For Materials' Forests, we are working on creating forests effectively with people while also creating forests by making the best use of the power of nature. Forest diversity is increasing through the creation of forests where diverse types of naturally cultivated tree species can coexist. For this, it is important to constantly observe the trees to envision how the forest will change and provide the necessary care.

The diverse Materials' Forests will enrich not only our lives but also our souls with their beautiful scenery. As Mitsubishi Materials has been providing a diverse selection of materials, it should also be capable of offering a variety of lumber from Materials' Forests. While holding on to this sentiment, we will enrich society in the future with the power of diversity.