SUSTAINABILITY BRIEFING

Sustainability Briefing



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Representative Executive Officer, President & CEO

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CSO (In charge of Corporate Strategic Planning, IR and SR, Operations of Associated Companies, Three Key Reforms, and Sustainability)

CDO (In charge of DX, Vice President, Business Innovation)

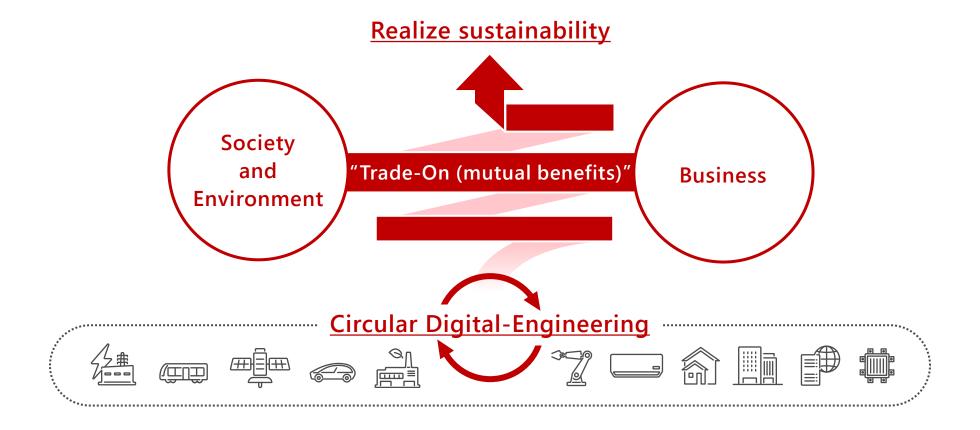


Vision for Sustainability



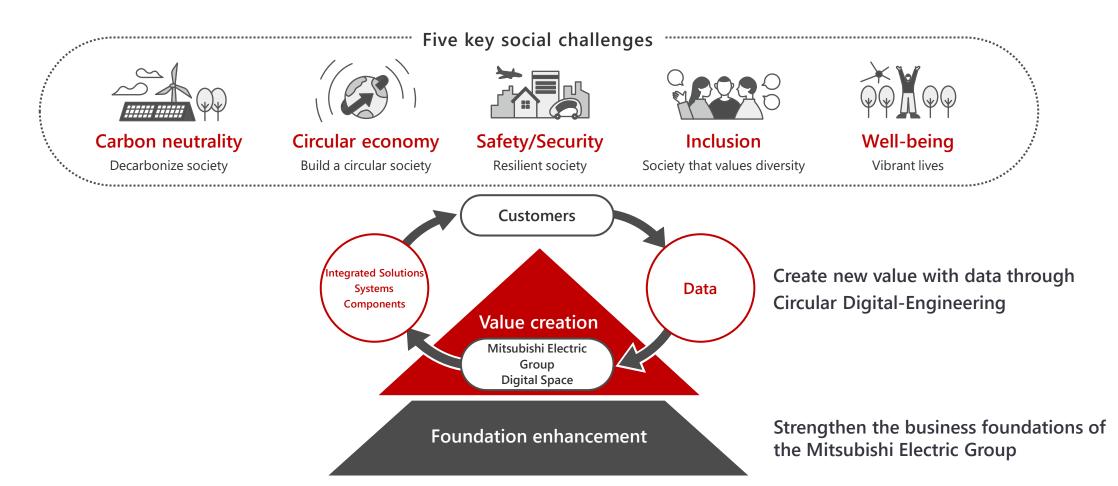
Mitsubishi Electric Group Strives for "Trade-On (mutual benefits)"

Innovate through Circular Digital-Engineering and grow our business while enriching society and the environment Realize sustainability together with every employee by striving towards "Trade-On (mutual benefits)"



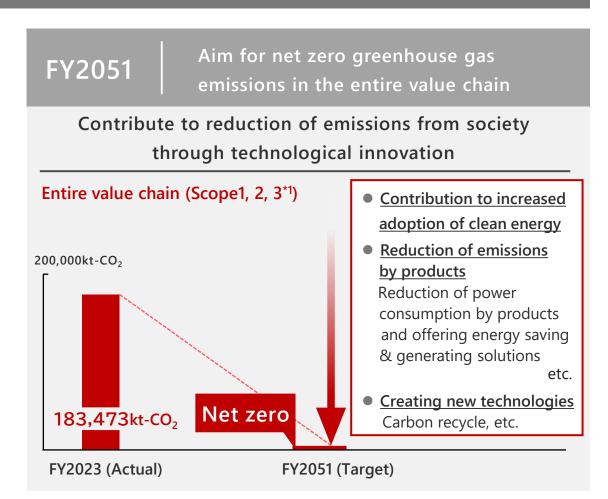


Value creation by Circular Digital-Engineering is critical to addressing the five key social challenges Enhance the foundations in all aspects including digital and support continuous value creation



Mid- to long-term targets toward carbon neutrality

Aim for net zero greenhouse gas FY2031 emissions from factories and offices Accelerate initiatives to reduce greenhouse gas emissions by leveraging in-house technology Factories and offices (Scope1 and 2*1) In-house technology **Energy management** system and heat pump 1,000kt-CO₂ Energy conservation of facilities Clean energy procurement Net zero 1,046kt-CO₂ FY2023 (Actual) FY2031 (Target)



^{*1} Scope1: Direct emissions by companies (fuel combustion and industrial processes); Scope2: Indirect emissions from the use of electricity, heat, and steam supplied by other companies; Scope3: Indirect emissions other than Scope 1 and 2 (emissions from other companies related to the company's activities)



Invest in green-related sector*1 with an eye on future business opportunities

Reduce greenhouse gas emissions from factories and offices

By the FY2031, Aim to power all factories and offices with 100% clean energy*2

 Technology development and capital investment for carbon neutrality, such as an energy management system, energy conservation, electrification, and review of the manufacturing process



Electrification of production facilities (Cleaning process, etc.)



In-house test for using hydrogen in the manufacturing process (Using hydrogen to power brazing burners, etc.)

Expand adoption of renewable energy

Sites that have achieved 100% green energy by FY2023

Japan 9 sites



Overseas 10 sites



Create and expand businesses that contribute to the realization of a green society

Seven years between FY2025-FY2031 Green-related R&D investment: Approx. ¥900.0 bn*3

- R&D for carbon recycling and circular use of materials and products
- Energy management that contributes to an expanded adoption of renewable energy
- R&D for energy conservation & electrification of equipment and next-generation power semiconductors*4



^{*1} Carbon neutrality and circular economy *2 Introduction of renewable energy facilities, procurement of 100% non-fossil fuel power, etc. *3 Estimated figures calculated based on past achievements and growth rates

^{*4} SiC (silicon carbide), Ga2O3 (gallium oxide), etc.

External evaluations and initiatives regarding carbon neutrality

Received top-ratings from CDP*1



Climate and Water
"A List"

Sixth time in each category



Supplier Engagement Leader

Fourth consecutive selection and seventh time

Obtained updated certification from SBT Initiative*2



Obtained updated certification with new targets that aim to keep the average global temperature rise due to climate change within 1.5°C compared with pre-industrial levels.

^{*2} An international initiative led by the UN Global Compact(UNGC), World Wide Fund For Nature (WWF), the CDP and World Resources Institute (WRI)



^{*1} An international NGO that surveys, evaluates, and discloses environmental initiatives of corporations and governments

Establish the Sustainability Innovation Group for comprehensive and strategic promotion of value creation and foundation enhancement to strengthen sustainability management (April 2024)



Value creation

Create new businesses that address social challenges

[Example: GIST*1 project]

Bring together members from business divisions across the company and work on business creation from a global and sustainability perspective



Foundation enhancement

Strengthen business foundation to enable sustainable growth

[Example: Formulation and promotion of the midterm Environmental Plan 2025]

Formulate specific plans based on the Environmental Sustainability Vision 2050*2. To achieve carbon neutrality, circular economy, and nature positivity*3, accelerate the reduction of environmental impact in the entire value chain



^{*2} The Mitsubishi Electric Group's long-term environmental vision toward 2050 *3 To stop the loss of and restore biodiversity



^{*1} GIST: Global Initiative for Sustainable Technology

To solve complex and diversifying social challenges, enhance organizational collaboration that involves not only joint research based on specific technology development themes but also comprehensive theme-setting

The University of Tokyo

Established the "Future Design Committee by Mitsubishi Electric and the University of Tokyo"

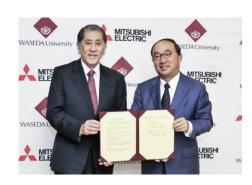
Design an ecosystem for achieving a circular economy and identify challenges and solutions for their realization



Waseda University

Concluded a basic agreement on a comprehensive collaboration for the realization of a sustainable society

Explore joint research themes in five social challenge areas, and advance activities for producing R&D results that contribute to society



Tokyo Institute of Technology

Established the "Mitsubishi Electric Energy & Carbon Management Collaborative Research Hub"

Conduct R&D on technologies related to green transformation (GX), and explore and create new technologies based on insights into the future and analysis of technology trends



National Institute of Advanced Industrial Science and Technology (AIST)

Established the "Mitsubishi Electric-AIST Human-Centric System Design Collaboration Laboratory"

Conduct R&D on CPS*1 building technologies and system designs that integrate CPS and connect industries



*1 CPS: Cyber-Physical Systems



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Initiatives for Addressing Social Challenges



Address social challenges through our businesses by leveraging the Mitsubishi Electric Group's strengths in a wide range of fields, from home to space



*1 A/C : Air Conditioning



Contribute to green transformation of society across all fields by leveraging the Mitsubishi Electric Group's strengths



Accelerate the reduction of environmental impact in the entire society

Carbon neutrality

Circular economy



Energy conservation

Promote energy conservation by developing components with higher efficiency and offering energy management systems

Electrification

Accelerate the transition from fossil fuels to electricity as the energy source for vehicles and heating systems

Renewable energy

Contribute to increased adoption of renewable energy and stable power supply by delivering highly reliable power systems

Resource circulation

Develop business models that create resource circulation such as carbon recycling

Solutions / Systems / Components





















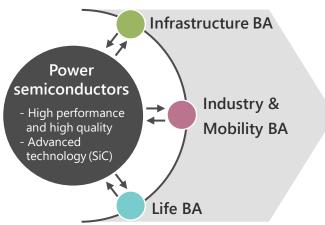


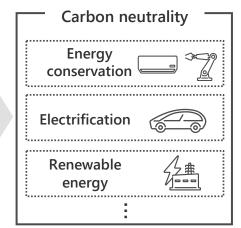
Power semiconductors

Contribute to the green transformation (GX) of the world by pursuing technological evolution in power semiconductors, which are key devices for reducing energy consumption of electronic equipment, electrifying vehicles, improving renewable energy conversion efficiency, and others.

Features

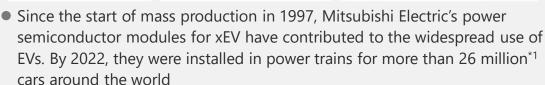
Contribute to the achievement of carbon neutrality by leveraging technological synergy within the Mitsubishi Electric Group





New SiC/Si power semiconductor modules for xEV J3 Series





The new products contribute to making inverters smaller, with SiC-MOSFET*2 and RC-IGBT*3(Si) installed in the same package and the module size reduced to approx. 40% of conventional products

^{*1} Aggregated the number of xEVs equipped with Mitsubishi Electric's power semiconductors for automotives *2 MOSFET: Metal Oxide Semiconductor Field Effect Transistor

^{*3} RC-IGBT: Reverse Conducting Insulated Gate Bipolar Transistor

ZEB*1 solutions

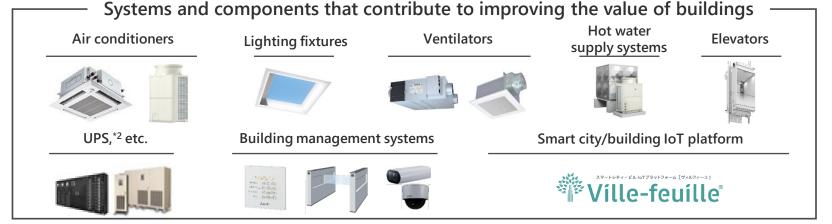
Contribute to the achievement of carbon neutrality while both conserving energy and improving comfort in buildings

Features

- As a ZEB planner, offer one-stop support from planning to design, construction, and maintenance, for both the construction of new buildings and the renovation of existing buildings
- Offer solutions that integrate facilities necessary for ZEB (air conditioners, lighting fixtures, ventilatiors, hot water supply systems, and elevators) operation management



with digital technologies, as well as field knowledge of maintenance and



Example of renovating existing building into ZEB: Nishishinjuku Sanko Building



- Reduced primary energy use by 62% through efficient facilities (air conditioners, lighting fixtures, and ventilations), centralized air conditioning control and other measures.
- Achieved energy conservation and a comfortable office environment

*1 ZEB: Net Zero Energy Building *2 UPS: Uninterruptible Power Supply



Contribute in all fields to create a safe, secure, and comfortable society by leveraging the Mitsubishi Electric Group's strengths

Safe, secure, and comfortable society

Contribute to realizing a safe, secure, and comfortable society in 133 countries and regions^{*1} in the world

Safety/Security

Inclusion

Well-being



Contribute to the maintenance and management of aging infrastructure, as well as early recovery after disasters

Improving transportation accessibility

Develop highly convenient transportation networks that ensure comfortable mobility for everyone

Resolving labor shortages

Automate on-site operations to save labor and utilize digital technology to facilitate the transfer of skills from experienced engineers

Comfortable lifestyle

Create an environment where everyone can live a healthy and vibrant life

Solutions / Systems / Components























^{*1} Number of countries and regions where our products and systems are sold



3D measurement app "Rulerless"

Contribute to improving the efficiency of disaster damage investigation and preventing and mitigating disasters, with an application that utilizes a LiDAR*1 scanner installed on smartphones

Features

- Make 3D models of and measure close-by space and objects, based on photos taken and 3D point cloud data acquired with a LiDAR *1 sensor built into smartphones
- Contribute to prompt support of disaster victims by improving the efficiency of house damage investigation, facility inspection, and other measurement work at the time of disasters

Intended occasion of use -



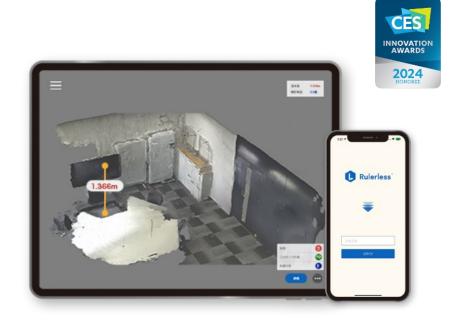
Disaster investigation



Facility inspection



Equipment delivery simulation



Received the CES 2024 Innovation Award in the Mobile Devices, Accessories & Apps category

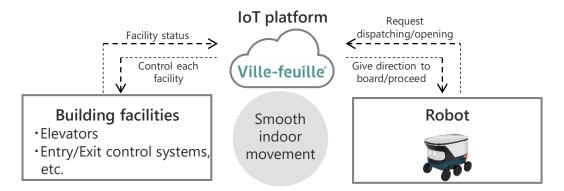
^{*1} LiDAR (Light Detection and Ranging): A technology to measure the distance to and shape of an object, based on the time until the irradiated laser bounces back

Product delivery service using self-driving robots

Contribute to addressing social challenges, such as labor shortages in the transportation and delivery industry, by working on the social implementation of delivery robots with excellent driving performance that can seamlessly move vertically and horizontally both indoors and outdoors

Features

- Improve customer convenience by delivering products using high-performance self-driving robots with excellent outdoor driving performance
- Ensure smooth indoor movement by operating together with elevators, entry/exit control systems, etc. (under development)



Business partnership with Uber Eats Japan and Cartken



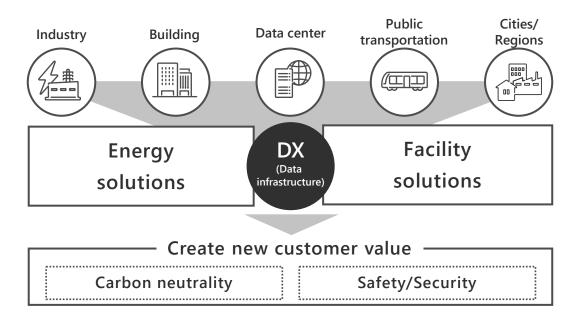
- Formed a business partnership with Uber Eats Japan and Cartken to offer online delivery services using self-driving robots.
- Started offering services in a select part of Tokyo from March 2024

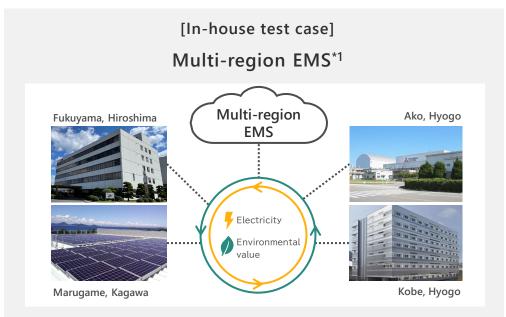
Energy & Facility solutions

Utilize digital technologies and create integrated solutions that cover from procurement and optimal management of energy to efficient operation and maintenance of facilities to realize carbon neutrality that has economic rationality, as well as a safe and secure society

Features

Utilize IoT, AI, and other digital technologies to accumulate and analyze data from customers, and address all challenges customers face in relation to energy and facility

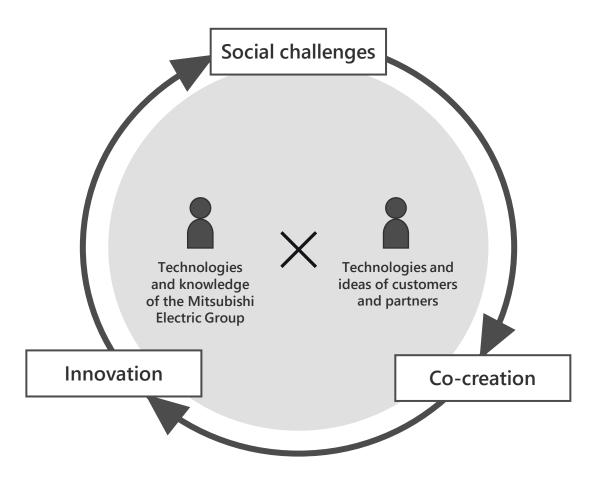




 Connect multiple factories and offices in different electricity supply areas, and test self-consignment of renewable energy, optimal operation of power storage systems, and management of environmental value over two years starting from March 2024

^{*1} An energy management system that optimizes the transferring of renewable power between multiple locations and helps companies achieve decarbonization targets

Accelerate initiatives in fields of innovation for addressing social issues by leveraging co-creation with startups and customers, as well as investments and M&As, including corporate venture capitals



Create innovation by collaborating with startups

Invest in and collaborate with startups to address social challenges



Ensures the safety of and optimizes urban transportation by leveraging image analysis technology



Offers solutions to support the achievement of carbon neutrality in the manufacturing industry



Solves water pollution problems with wastewater treatment and purification technology



Resolves shortages of workers for visual inspections at manufacturing sites by leveraging AI technology

Co-creation with customers and partners

Create new value through by co-creation with customers and partners by leveraging the Mitsubishi Electric Group's technology assets



Contributes to the realization of a circular society by leveraging know-how in the plastic recycling business

Globally secure and develop human capital that will be a driving force for promoting sustainability management, accelerate human capital strategies that are linked to management strategies, and promote DE&I*1 and other initiatives to maximize the value of human capital

Human capital as a driving force for addressing social challenges

Maximize the value of human capital

Human capital strategies Strengthen a **Transform** Transform HR **Transform** diverse and divisions with corporate versatile talent digital culture and human capital management technology mindset foundation

Investment in people

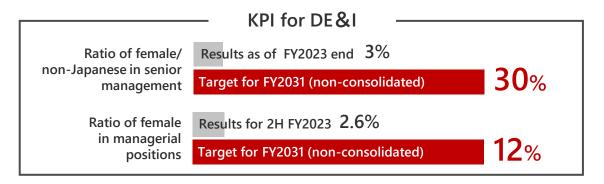
Secure diverse and versatile human capital globally, enhance development systems, and introduce job-based human capital management

Encourage self-initiative and challenging spirit, and enhance career ownership

- Enhance in-house job offering/application systems and personal career development support programs
- Revamp the salary and compensation system to incorporate job-based human capital management

Enhance DE&I initiatives

- Promote diversity in senior management*2 based on global succession management
- Early appointment of personnel for managerial positions linked with a management candidate development system



^{*1} DE&I: Diversity, Equity & Inclusion *2 Senior management: Executive Officers and Directors



Recent initiatives and strategies

Fulfill corporate social responsibility and strengthen business foundations for sustainable growth

Human rights

Promote continuous improvement activities to ensure that our business activities do not have a negative impact on human rights

Human rights initiatives based on international norms

- Continue to carry out Human Rights Due Diligence
- Continue activities to identify and address risks involving major human rights violations in the supply chain

Corporate Governance

Further improve the flexibility and transparency of management, and strengthen the supervisory function

Improvement of the effectiveness of the Board of Directors

- Conduct third-party evaluation of the effectiveness of the Board of Directors and pursue sustainable improvements
- Ensure that independent outside directors account for more than half of the Board of Directors and the three statutory committee members
- Appointed independent outside directors to chairpersons of the Board of Directors and the three statutory committees

Sustainability-oriented corporate culture

Proactively communicate with stakeholders and foster a corporate culture that aims to address social challenges from a mid- to long-term perspective

Activation of internal communication

 Implement the Purpose Project, which provides every employee with the opportunity to think about their "My Purpose"

Active engagement in IR/SR*1 activities

 Hold enhanced dialogues with shareholders, investors, and other stakeholders through IR Days, briefings, and other events

*1 IR·SR: Investor Relations · Shareholder Relations

Major Non-financial Indicators

Materiality		Targets/Initiative indicators	
@	Realize a sustainable global environment	Achieve carbon neutral	 FY2031: Aim for <u>net zero</u> greenhouse gas emissions from factories and offices FY2051: Aim for <u>net zero</u> greenhouse gas emissions in the entire value chain Provide products, services and solutions that contribute to carbon neutrality
		Achieve circular economy	FY2036: 100% effective use of wasted plastics
	Realize a safe, secure, and comfortable society	Contribution through business activities in the areas of safety/security, inclusion, and well-being	 Provide products, services and solutions that contribute to safety/security, inclusion and well-being
	Respect for all people	Promote human rights initiatives that are based on international norms	 FY2031: Establish human rights initiatives based on international norms FY2031: Realize a responsible supply chain
		Realize workplace where diverse and versatile human capital gathers and works together	 FY2026: Employee engagement score*1 70% or more (non-consolidated) FY2031: Ratio of female/non-Japanese in senior management*2 30% or more (non-consolidated) FY2031: Ratio of female in managerial positions 12% or more (non-consolidated)
	Strengthen corporate governance and compliance on a sustainable basis	Increase effectiveness of the Board of Directors	Maintain the ratio of independent outside director at 50% or more
		Prevent recurrence of improper quality control practices	 Promote three key reforms (quality assurance, organizational culture and governance), monitoring of the three reforms by the Board of Directors, and appropriate information disclosure
		Understanding and practices of a compliance motto "Always Act with Integrity"	Provide compliance education on a continuous basis
		Improve the Cybersecurity maturity level	 FY2029: Achieve level 2 or higher*3 in the Cybersecurity Maturity Model Certification across the Group
	Create a sustainability- oriented corporate culture Promote	Understanding and practices of sustainability by employees	• FY2026: Understanding on the operation of business in line with the corporate purpose and goals according to the results of the employee awareness survey <u>75% or more (non-consolidated)</u>
Y F		Promote communication with stakeholders both inside and outside the company	 Issue the Sustainability Report and the Integrated Report, hold dialogues with experts, and conduct sustainability report questionnaires

^{*1} Ratio of employees who respond that they feel that they are proud and motivated to work for the Company in the employee awareness survey

^{*2} Senior management: Executive Officers and Directors *3 Framework for Cybersecurity Maturity Model Certification set forth by the U.S. Department of Defense (CMMC 2.0)



Mitsubishi Electric Group's Sustainability Management

- Pursue the realization of sustainability by striving for <u>"Trade-On (mutual benefits),"</u>
 where we grow our business while solving social challenges
- Strengthen business foundations and create new value by accelerating sustainability initiatives and investments
- <u>Taking on the challenge of sustainability innovation</u> by bringing together the technological capabilities nurtured in a wide range of fields and the creativity of each employee













