Integrated Report 2022
For the year ended March 31, 2022
DENSO Philosophy

Contributing to a better world by creating value together with a vision for the future

DENSO Spirit

A spirit of foresight, credibility and collaboration

The DENSO Spirit expresses values and beliefs shared by our employees around the world that have driven us to contribute to the automotive industry and society as a whole since our establishment in 1949.

The DENSO Creed

Be trustworthy and responsible

Cherish modesty, sincerity, and cooperation

Be pioneering, innovative, and creative

Provide quality products and services

Foresight

Providing surprises and impressions in a way that only DENSO can

Vision

Creativity

Challenge

Credibility

Providing quality and reliability beyond customer expectations

Quality First

On-site Verification

Kaizen, Continuous Improvement

Collaboration

Achieving the highest results by working as a team

Communication

Teamwork

Human Development
Publication of DENSO Integrated Report 2022

DENSO publishes an integrated report every year in order to foster a deeper understanding among investors and all of its stakeholders regarding the Company’s initiatives toward sustainable corporate value enhancement.

DENSO Integrated Report 2022 includes specific information on the strategies and initiatives DENSO is pursuing toward “green” and “peace of mind” with the aim of realizing its Long-term Policy for 2030 as well as the details of the new Mid-term Policy for 2025, formulated in fiscal 2023, and efforts to strengthen its non-financial capital, a topic that has garnered a great deal of attention in recent years. In addition, the report introduces the Company’s financial strategies for continuing to create corporate value even under an uncertain business environment.

Going forward, DENSO will continue its efforts to disclose accurate information to its stakeholders in a timely manner and engage in dialogue with them. Lastly, I would like to assure the readers that the creation process for this report was done in an appropriate fashion.

DENSO Integrated Report 2022

Editorial Policy

In addition to providing financial information, such as results and sales overview as well as management strategy, DENSO's Integrated Report 2022 is intended as an integrated report that reports, in an easily understandable manner, on what value DENSO's operations in FY2022 provided to the stakeholders in the form of intangible assets, including on the environment, society and governance (ESG), that are seen as the foundation underpinning growth.

DENSO creates long-term corporate value for all of its stakeholders, including shareholders and other investors, and would appreciate their understanding for the efforts the Company is making in aiming to realize a sustainable society.

In compiling this report, references have been made to the Integrated Reporting Framework that is proposed by the International Financial Reporting Standards (IFRS) Foundation, as well as the Guidance for Integrated Corporate Disclosure and Company Investor Dialogue for Collaborative Value Creation, formulated by the Ministry of Economy, Trade and Industry in addition, with regard to social reporting and the environment, please refer to the “Sustainability” section of the Company’s website.

Scope of Report

Target Organization

DENSO CORPORATION and the DENSO Group (in this report, DENSO CORPORATION refers to DENSO on a non-consolidated basis).

Reporting Period

This report covers the activities of the DENSO Group during fiscal 2022 (April 1, 2021 to March 31, 2022). Certain parts of this report include content on the Group’s activities from April 2022 onward.

Target Audience

All stakeholders involved with the DENSO Group.

Cautionary Note: Forward-Looking Statements

The content published in this report, what is not historical fact comprises future predictions based on expectations or on plans for the future. As they include contributory factors, such as risks and uncertain elements, the possibility exists that actual achievements and results may differ materially from this report.

To Our Stakeholders

8 Past, Present, and Future
22 Our Three Cultivated Strengths
26 Our Accumulated Capitals
28 Creating New Value through Our Seven Core Businesses
30 DENSO’s Value Creation Process
32 Special Feature: Value Creation in Action

DENSO’s Value Creation Story

90 Corporate Governance
99 Corporate Governance
108 Dialogue with the Outside Board Members
111 Message from the New Outside Board Member
112 Members of the Board and Audit & Supervisory Board Members
114 Risk Management
116 Compliance
117 Corporate Data
120 10-Year Data
122 Company Overview and Stock Information
DENSO has pledged its support for the Task Force on Climate-related Financial Disclosures (TCFD). For DENSO Integrated Report 2022, we referenced the climate-related disclosure items recommended by the TCFD. This section elaborates on how the alignment between the TCFD recommended disclosure items within this report and the ones on our corporate website, as well as this integrated report includes sections that disclose opportunities and risks based on scenario analysis and summarize DENSO’s initiatives in accordance with the TCFD recommendations. Please see pages 7 to 76 for details.

**Table of Contents**

- [Introduction](#)
- **Universal Way of Telling and Targets**
  - The DENSO Creed and Philosophy
  - Mid-term Policy for 2025
  - Long-term Policy for 2030
- **Business Environment and Long-term Policy for 2030**
  - A Universal Way of Telling
  - Related SDGs
- **Strategies for Achieving Mid-term Policy for 2025**
  - Action 1: Strengthening Partnerships with Stakeholders
  - Action 2: Strengthening R&D
- **Progress of Business Thematic Implementation**
  - Core Values
  - Value Chain
  - Performance

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**DENSO's Value Creation Process**

DENSO is committed to being a company that promotes growth and achieves its targets by exercising its long-term policy for 2030 through its business activities, taking into account the contributions to realizing the long-term policy, eventually achieving growth.

**Value Creation Process**

- **Universal Way of Telling and Targets**
- **Business Environment and Long-term Policy for 2030**
- **Strategies for Achieving Mid-term Policy for 2025**
- **Progress of Business Thematic Implementation**

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**Metrics and Targets**

- **Strategy**
  - P.114–115: Risk Management
- **P.41: Materiality**
- **P.119: Non-Financial Highlights**
  - CO2 Emissions (Global, Scope 1 + Scope 2)
- **P.76: Efforts to Maximize the Value of “Green”**
  - Indicators and Targets

---

**Market Risk**

- A) Disclose the metrics used by the organization to assess climate-related risks and opportunities in line with its strategy and risk management process
- C) Describe how processes for identifying, assessing, and managing climate-related risks are integrated into the organization’s overall risk management

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**Universal Way of Telling and Targets**

- The DENSO Creed and Philosophy
- Mid-term Policy for 2025
- Long-term Policy for 2030

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**Business Environment and Long-term Policy for 2030**

- A Universal Way of Telling
- Related SDGs

---

**Strategies for Achieving Mid-term Policy for 2025**

- Action 1: Strengthening Partnerships with Stakeholders
- Action 2: Strengthening R&D

---

**Progress of Business Thematic Implementation**

- Core Values
- Value Chain
- Performance

---

**DENSO's Capital**

- P.176–177: Capital Efficiency
- P.178: Capital Structure

---

**DENSO's Sustainability**

- P.190: Overview of DENSO's Sustainability
- P.191: Materiality
- P.192: Understanding of DENSO's Environmental Management
- P.193: Vision and Roadmap for 2030
- P.194: Long-term Policy for 2030
- P.195: Related SDGs
- P.196: Mid-term Policy for 2025
- P.197: Strategies for “Green” and “Peace of Mind”
- P.198: Financial Strategies
This world is full of achievements that haven’t yet happened. We haven’t built a society where we can all move from place to place with no risks. We haven’t found a way to manufacture with zero CO₂ emissions. We haven’t found a way to feed the entire world or build a robot that can work on the same level as a human.

When things we haven’t achieved turn into things we have. These are the moments the world takes a step forward.

When the things we’ve achieved become the everyday. That’s where a better world awaits us.

Our goal is to work with our partners so we can make new things happen together.

Because our world is full of achievements that haven’t yet happened. And that’s why we’re here.

Here at DENSO, we are professionals who make things happen.

(Excerpt from DENSO Brand Purpose)
Expressing My Gratitude to All Those Who Support Us

In fiscal 2022, although there was a gradual recovery in economic activities amid the entrenchment of “with COVID-19” lifestyles, there were continued semiconductor shortages and logistics disruptions, which led to a decline in the number of automobiles produced. These factors, among others, made fiscal 2022 a year in which efforts to respond to change were needed more than ever before. The reasons why we were able to continue to supply our customers under these circumstances were undoubtedly the concerted efforts of car manufacturers to make automobiles one after the other and the support of our suppliers around the world, who continued to deliver components to us throughout the year. If even one component cannot be made or delivered, then it is impossible for the manufacturer to make an automobile. Due to the fact that DENSO operates business on a global basis, we have a major responsibility of supply, as even one unmade or undelivered component can have a ripple effect across the globe. I therefore would like to say a heartfelt “thank you” to our suppliers and business partners around the world who provide us with the necessary support to keep our global operations afloat. I am also extremely thankful of the fact that we have been able to continue our Monozukuri (manufacturing) activities on a daily basis while receiving this support.

Striving to Realize a Company More Resilient to Change

At the moment, we are dealing with various uncontrollable circumstances, including the soaring cost of energy and the rapidly depreciating yen. As a result, the outlook for the future is becoming increasingly more uncertain. However, this uncertainty is not something that started just recently. In addition to geopolitical risks and natural disasters, risks such as telecommunication failures and cyber-attacks have been becoming even more diverse and complex in recent years, and we now find ourselves in a situation where we are constantly exposed to danger. In other words, we now live in a world where dramatic change has become commonplace. In such a world, it truly becomes a matter of how far we can extend our range of assumptions on a daily basis as well as how quickly we can get an uncontrollable circumstance under control. To that end, DENSO has been taking action to reinforce its crisis management structure, including the utilization of data to ascertain problems and the implementation of first-response training in anticipation of an emergency. Additionally, in 2022, we launched the Response Capabilities Enhancement Project through which we have been undertaking efforts to strengthen risk management on a Companywide basis, with a particular focus on such divisions as sales, production management, and procurement. Our overseas bases have also been participating in

To realize a future brimming with smiles, all DENSO employees will work with tremendous passion to embody DENSO Culture and create new value that is uniquely DENSO. By doing so, we will bring happiness to people and society at large.
this project, helping us prepare a structure for responding to risk on a global scale. Going forward, we will work in close collaboration with our partners across the supply chain to further enhance our ability to respond to change so that we can flexibly absorb the impact of any external disruptions on management and realize an instantaneous recovery.

Restoring DENSO Culture

Since 2019, we have been working to rebuild our management foundation, and this is an activity we will continue to undertake without ever being satisfied with the status quo. In light of the occurrence of a quality-related issue and the ongoing COVID-19 pandemic, we have been striving to rebuild our foundation for quality, strengthen our financial position, and rethink the way in which we approach our work. The results of these efforts have been steadily manifesting in the changing awareness and behavior of each employee and in our business performance as well, including in terms of profits and our break-even point. Furthermore, guided by the principles of green and peace of mind, we have once again clarified our mission and role. This, together with the honest approach of “cherish modesty, sincerity, and cooperation” adopted under the DENSO Creed, has started to bring about change in our organizational structure and corporate culture.

For that reason, it is now more important than ever to continue efforts to reestablish an unshakable management foundation with a renewed sense of commitment. While working to entrench DENSO culture across the organization and in the actions of all employees, we will seek to become a more flexible and robust company that is reinforced all the way down to its very core.

Understanding How Culture Strengthens a Company

Corporate culture provides the driving force for a company and serves as the source of its competitiveness. I gained a sense of the importance of corporate culture nearly 20 years ago, when I served as president at one of our overseas locations. At the time, this company was facing extremely difficult operating conditions due to continued deficits, and I remember how I initially could not get my head around what we needed to do in order to change the course. Despite my uncertainties, I strove to understand the actual situation of the company in great detail and shed light on the management issues it faced through repeated dialogue with the employees. While doing so, I realized that the employees still had a look of determination in their eyes and that we could certainly overcome these hardships if I could just do something to channel this determination to something greater. I therefore started to undertake the challenge of creating a DENSO Culture that accommodates the local characteristics.

While pursuing this challenge, I placed importance not on insisting to do things the way we do in Japan but rather on incorporating local elements into DENSO Culture that encapsulated the will of the local employees, while making sure that the most important elements of DENSO Culture were kept intact. The starting point for these efforts was to restore pride among employees in working for the company and having them believe in themselves again. From there, I began to conduct employee-centric activities and worked to enhance a sense of belonging to the company while fostering a corporate culture that values the participation of all employees. I understand that this sounds like an extremely matter-of-fact approach, but the fact that the company had lost track of such fundamentals is what caused it to fall on such difficult times. I believe this demonstrates the underlying importance of a strong corporate culture.

In addition, I valued the idea that, no matter how difficult a situation may be, we must always focus on a brighter future and communicate our dreams with one another. In conjunction with the diligent activities we pursued each day, we also envisioned future growth strategies and worked together on a Companywide basis to make those strategies a reality. As a result of these endeavors, we were able to overcome hardships and return the company into the black. Of course, a major accomplishment of these efforts was improving management indicators such as profits and quality. For me, however, I rejoiced the most in the fact that the company became a brighter place to work, shifting to a positive corporate culture that brought back the passions and smiles of the employees and their families.

Although there were many difficulties in pursuing these kinds of dramatic reforms, I still feel a deep personal connection to all those I worked with at that time to prevail over the tremendous hardships that the company faced. I feel this is because of the unique corporate culture and value systems that bound us together and were created from the passions of employees, who were able to openly communicate with each other about what we should value as employees of DENSO. I also feel this experience showcases how we can build confidence by working together to accomplish tasks that we have not been able to do for many years or tasks that are seemingly impossible, but we never give up until results are achieved. I believe this confidence remains in the hearts of those employees as a part of their unique culture and strengths.

Once Again Placing Emphasis on DENSO Culture

Looking back on the numerous stories that have made DENSO the company it is today, I believe that DENSO Culture can be defined as the ability to act and the ability to turn ideas into reality. It can also be defined as the unyielding determination to do whatever it takes to overcome a challenge. Lastly, I believe DENSO Culture can be described as the consideration and compassion we have for each other, our business partners, and greater society.

Our ability to act and our unyielding determination have been tested countless times through the numerous supply crises we have recently faced under the COVID-19 pandemic. For example, when our suppliers faced issues with supply, our employees rushed to the front lines to take action with a preparedness that DENSO will do whatever it takes to help remedy the situation. They did this not based on instruction from above or a request from our customers, but rather as a fundamental action on their own initiative. I believe this perfectly encapsulates DENSO Culture. As dramatic changes and crises have been ongoing over the past several years, we have once again been made aware of the importance of DENSO’s unique determination and ability to see actions through to their completion. At the same time, recent circumstances have made our employees aware of the many abilities that they can demonstrate from their individual positions. Meanwhile, consideration and compassion are something that need to be once again brought to the forefront due to the significant social changes that have occurred in the wake of the COVID-19 pandemic and the new styles of communication and interaction between people that have become entrenched as a result. The changes that occurred over the past several years are not something that can be easily reversed. And this is precisely why I feel we must pay attention to the aspects that are being lost in the shadows of greater convenience and efficiency. For example, when employees come to the office, they are able to speak with each other face to face, making it easy to notice the subtleties of people’s expressions and feelings. The reality of the situation is that these subtleties are more difficult to observe by way of a screen when employees are teleworking. In addition, even when employees come to the office, it has now become commonplace for them to eat in silence in the employee cafeteria with partitions between them. In the break
rooms of our plants as well, we no longer see employees chatting and laughing with each other like they did before as we must maintain social distance. In these kinds of new work environments, we tend not to notice slight changes among our coworkers and are more likely to turn a blind eye to aspects that seem insignificant. As a result, there is a concern that, before we know it, we will become essentially indifferent to each other. A workplace of employees who are indifferent to each other is something I absolutely do not wish to see. Nor matter how accurately and swiftly we are able to pursue our work, an apathetic organization not only violates DENSO Culture, it also loses what it means to work at DENSO. I certainly do not want to make DENSO such a company. What is needed to preserve DENSO Culture, maintain a sound workplace culture, and make DENSO a company brimming with vitality is not some kind of special policy or groundbreaking initiative; it is simply the consideration that our employees have toward one another. Such consideration is something everyone can have, whether it be through greetings, small talk, or just checking in with someone to see how they are doing. However, this consideration has been something we have tended to neglect recently, as it has become slightly inconvenient amid these new workstyles. Consideration of our fellow coworkers and sensitivity to their feelings is an indispensable element of an invigorated organization, and thus something we must maintain no matter how much our workstyle evolves or how diverse our team becomes. While flexibly responding to the changes brought about by the COVID-19 pandemic, we aim to continue creating a company where employees value one another and take time out of their day to engage in the little actions that create a warm and welcoming environment.

Respecting Actions That Only People Can Do as Part of DENSO Culture

In addition to changes in the way people interact, the COVID-19 pandemic has made us once again realize the tremendous potential of digital technology. Although such potential has been discussed for a very long time, by actually having the experience of dealing with such innovative technology on a daily basis, such as having a large number of people teleworking or participating in an online meeting, I have truly gained a sense of the tremendous role that machinery can play and of the major advantages that technology has given us. On the other hand, these recent developments have also made us consider tasks that people are supposed to do and tasks that only people can do. Although machines can process and analyze massive amounts of information and data, what could and should be done with such information and data depends on the ambitions of people. More so than reaching a reasonable conclusion derived from logical and scientific thinking, I believe that establishing ambitious targets based on one’s own thoughts and desires brings more excitement to people and better compels them to take on challenges. Only people can form ideals, envision the future, and talk about their dreams in a manner that can excite those around them. Furthermore, being able to realize such dreams depends on the level of people’s passions and the organization to which they belong. It goes without saying, but when a machine processes a task, it does so without passion or a desire to do so on behalf of someone else. People are passionate about the significance of their work and pursue tasks with various people in mind and by drawing on the expectations of those around them as a source of passion and energy. Therefore, people are able to feel that they are being supported by others during times of difficulty, and at times when a feeling of support can bring out unexpected strength. I have consistently maintained the desire of turning DENSO into a company with high levels of passion. Unlike machines, people become highly motivated by their social mission and passionately speak about their dreams with each other. I want DENSO to be an organization that has that motivation and desire to put forth its best efforts for its members and for society as a whole. I believe we have in place the foundation and are presented with sufficient opportunities to become such an organization.

Embodying DENSO Culture, Meeting Shareholder Expectations, and Offering Value to Society

I believe that DENSO is starting to play a role in society that is greater than we have previously ever imagined. As the issues facing the entire automotive industry become more complex and diverse, and as our business domains expand into areas such as carbon neutrality, semiconductors, and agriculture, the way DENSO is viewed by society is steadily changing. While this places a certain level of pressure on us, it also provides us with a significant opportunity to offer more value to society. We therefore aim to turn these expectations and responsibilities into a major strength that will drive us toward the realization of our dreams. DENSO’s dream is to bring happiness to people and society at large and deliver a future for the next generation that is brimming with smiles. We currently find ourselves in a period of uncertainty and instability, and it can be said that this period is the time when we must truly offer value. In a time when we need unwavering conviction and tremendous passion in order to accomplish our greatest dreams, our conviction is encapsulated in the DENSO Creed as “provide quality products and services.” As we enter into the period of our second founding, we must return to the DENSO Creed, which represents the spirit of our founding, and reexamine our origins as a company.

The biggest source of our passion is our employees who have the strong will and desire to offer value to society. I believe this source of passion is amplified through the embodiment of DENSO Culture, which entails acting on your own initiative to see actions through to their completion, no matter how many times you fail. With the tremendous passion of our 170,000 DENSO employees working as one invigorated team, we are able to create value that is uniquely DENSO. We will continue to pursue such value with unyielding determination for the sake of people and society as a whole. I would like to ask our shareholders and other investors for their continued support as we work to achieve our dreams going forward.

September 2022

Koji Arima
President & CEO, Representative Member of the Board
Past, Present, and Future /

DENSO’s Value Creation Story

Continuing to Create Value for the Mobility Society

Identity

DENSO Culture Inherited from the DENSO Creed

In 1956, seven years after the Company’s founding, we formulated the DENSO Creed to express in words the mentality of all DENSO employees—which we have had even before splitting from Toyota Motor Co., Ltd.—while taking the next step toward new progress based on a clear self-awareness.

Without changing the values encapsulated in the DENSO Creed, we formulated the DENSO Philosophy in 1994 to reflect the social changes occurring at the time. In addition, to share our value system on a global basis, we established the DENSO Spirit in 2004. The four ideals of the DENSO Creed, which have served as the source of the Company’s progress, have been gradually passed down through the years and are still inherited today by our approximately 170,000 employees across the globe.

Four Ideals of the DENSO Creed

Be trustworthy and responsible.
The trust that our predecessors worked earnestly to build over the years underpins the DENSO of today. We will therefore maintain this trust and seek to build it up further so that we can pass it on to the next generation. By doing so, we will meet the expectations of society and fulfill our responsibility to ensure DENSO’s future.

Cherish modesty, sincerity, and cooperation.
We work to refine not our appearance or job title but the essence of who we are as a part of DENSO, and we work in collaboration to perform our duties with sincerity. The sincere and cooperative relationships we have with each other as employees will bring forth inspiration and help us build long-lasting relationships with our customers and business partners.

Be pioneering, innovative, and creative.
By consistently leading the times with our research and creativity and continuing to refine our technologies and know-how, we will swiftly create new value that truly benefits society, thereby paving the way for the future.

Provide quality products and services.
We will earnestly approach each issue facing this ever-changing society and continue to bring hope and happiness to all people while aiming to provide our customers and society with products and services of the very best quality.

Establishment of the DENSO Heritage Center

In December 2021, we established the “Heritage Center” with the aim of enabling all employees to return to DENSO’s origins, which are represented by the DENSO Creed and the principles of quality and safety, and to provide them with an opportunity to consider what they themselves want to pass on to the next generation of DENSO. At the DENSO Heritage Center, we have established areas that introduce events that happened at the time of the Company’s founding, which represent the starting point of DENSO. We also have areas where visitors can reflect on DENSO’s history of offering quality and peace of mind. The Heritage Center is visited by a large number of employees every day.
Hardships and Challenges at the Time of Our Founding

DENSO overcame the numerous hardships it faced at the time of its founding and continued to develop since with the desire to realize an even better society, which is encapsulated in the DENSO Creed. The desire serves as the starting point of DENSO and remains with the Company even to this day. Recently, as DENSO enters into the period of its second founding, there is a need to boldly take on unprecedented challenges, such as promoting initiatives toward CASE and realizing carbon neutrality. By once again reflecting on the desire embodied in the DENSO Creed and returning to our starting point as a company, we will steadily move forward toward our aim of bringing happiness to people and society as a whole.

1935

Taking on the Challenge of Producing Electrical Equipment In-House

During an extremely difficult period in which we did not possess the proper tools and equipment, our determination alone is what allowed us to achieve success.

In 1933, an automobile department was established within Toyota Automatic Loom Works, Ltd. (currently Toyota Industries Corporation). In 1935, executive director of Toyota Automatic Loom Works, Kisshiro Toyota, instructed Ryuchi Suzuki (who would later become a member of the Board at DENSO) to take on the challenge of producing electrical equipment in-house. However, developing such equipment internally became an extremely difficult task. At the time, the quality of electrical equipment was unstable, and there was a growing opinion that promoting the in-house production of such equipment was not a task the company should undertake. As a result, Mr. Toyota stated to Mr. Suzuki that this task seemed to be far harder than he had imagined, and he asked Mr. Suzuki whether they should quit at that juncture. Mr. Suzuki pleaded to Mr. Toyota to allow him to continue his efforts to realize in-house production for one more month. Eventually, after doing so, the enthusiasm and the persistence of Mr. Suzuki and the young engineers on his team led to the official adoption of electrical equipment in Toyota vehicles.

1949

The Birth of NIPPONDENSO

Even without a clear path forward, we were resolved to make one on our own and move forward on it no matter what the outcome.

In 1949, with the Japanese economy in an extremely difficult state due to the promotion of the Dodge Line by the General Headquarters of the Supreme Commander for the Allied Powers, the electrical equipment department split off from Toyota Motor Co., Ltd., and was established as NIPPONDENSO Co., Ltd. The company’s first president, Torao Hayashi, aimed to rapidly expand the company not just in Japan but also overseas. For that reason, he chose the name NIPPONDENSO (“Nippon-denso” meaning Japan), rather than KAIHINDENSO, AICHIDENSO, or TOKAIKOMI, which are names of the local area where the company was founded, to display his conviction toward becoming self-reliant and expanding the company. Amid a recession and a lack of materials and equipment, NIPPONDENSO got off to a rough start. However, a strong bond was formed among the company’s employees.

1950

Moving Forward with a Strong Labor–Management Relationship after Settling Labor Disputes

Pursuing the Highest Quality and the Lowest Price through the United Efforts of All Employees to Become No. 1 in the Industry

Chotic economic conditions continued after NIPPONDENSO split off from Toyota Motor to become its own company, and in 1950, the company declared its intention to rebuild itself. Then company member of the Board Tatsuaki Iwatsuki (who would later become president of DENSO) stated that, “we are approaching rough seas as a company, and I would like to see management make a proposal in order to stop this ship from sinking.” A workforce reduction of 473 employees, which was roughly one-third of all employees at the time, was subsequently carried out. In addition, Mr. Iwatsuki also penned a starting article in the company newsletter, titled “Will NIPPONDENSO Fail?” in which he stated how it would be difficult to protect the company from failure in the domestic market if dramatic changes were not made. He also communicated to employees that, “to be the No. 1 company in the industry, we have no choice but to compete by offering the highest quality at the lowest price.” After a 29-day labor dispute, labor and management achieved mutual trust, and this trust helped commence efforts to build a management foundation that aimed for the highest quality and the lowest price through the united efforts of all employees.

1953

Start of Technical Cooperation with Robert Bosch GmbH

Becoming a Trusted Company That Customers Could Feel Confident in Choosing

After resolving labor disputes and beginning efforts to rebuild, the special demand stemming from the Korean War breathed new life into NIPPONDENSO’s management. However, in terms of technology, there was a clear disparity between NIPPONDENSO and companies in Europe and the United States, resulting in an urgent need to achieve international-level technology and quality as quickly as possible. At the time, the German-based Robert Bosch GmbH was roughly 10 times larger than NIPPONDENSO, but through the mediation of Dr. Takushiki Mishima (inventor of MKM steel), the recommendation of Kazuo Kawamura (the president of Toyo Motors), and the determination and agility of our management, we were able to enter into a technical alliance with Robert Bosch. While learning various aspects from this company, we established a technological, quality, and business foundation that could compete on an international level.

1956 Formulation of the DENSO Creed

DENSO overcame the numerous hardships it faced at the time of its founding and continued to develop since with the desire to realize an even better society, which is encapsulated in the DENSO Creed. The desire serves as the starting point of DENSO and remains with the Company even to this day. Recently, as DENSO enters into the period of its second founding, there is a need to boldly take on unprecedented challenges, such as promoting initiatives toward CASE and realizing carbon neutrality. By once again reflecting on the desire embodied in the DENSO Creed and returning to our starting point as a company, we will steadily move forward toward our aim of bringing happiness to people and society as a whole.
Value Creation That Draws on DENSO Culture

The DENSO Creed, formulated after overcoming the hardships and challenges we faced since our founding, and the principles enshrined within it provide the source of our value creation to this day. In this section, we introduce iconic examples that embody the four principles of the DENSO Creed and that demonstrate how we have delivered value to our customers and society throughout the years.

1959

Pursuing Efforts to Achieve the Deming Prize

Competing on a Global Stage with Quality, Not Price

International competition began to intensify with the approaching liberalization of automotive trade. To survive under such circumstances, we decided to pursue efforts to achieve the Deming Prize, one of the most prestigious awards for quality control. Accordingly, we participated in interviews with companies that had received the prize and attended outside seminars. We also established quality-related educational activities specific to employee rank. Further, study sessions for employees on the front lines were held on a near-daily basis. Without being overly confident in the knowledge and experience we had accumulated in the past, we worked on a Companywide level to learn about quality control and revised the way we approached our work from the bottom up. As a result, in October 1961, we became the first Toyota Group company to receive the Deming Prize. Our efforts toward receiving this prize laid the foundations for the “Quality First” approach and corporate culture that we still embrace to this day.

“Cherish modesty, sincerity, and cooperation.”

1968

Transition to the In-House Production of Semiconductor Products

Learning and Acting with the Utmost Sincerity So That We Could Pave the Way for the Creation of Products with Social Value

In 1968, we established the IC Research Center in anticipation of the shift to the electronic control of automotive components in the future. Through this center, we commenced the automotive industry’s first full-scale development of semiconductors, including their manufacture. We believed that only an automotive component manufacturer such as ourselves could realize semiconductors that operate in the unique environment of an automobile. Accordingly, we provided products that offer true value to society. We worked to acquire production facilities, establish an R&D structure that included external experts, and sought knowledge from large-scale semiconductor manufacturers in other industries. After successfully mass-producing semiconductor products, we continued to challenge ourselves with the development of even more ambitious products, which helped grow electronic-related products, including semiconductors, into one of our mainstay products today.

“Be trustworthy and responsible.”

1972

Leading the World with the Electronic Control of Engine Combustion

Understanding That We Are Working to Bring Smiles to the People of the Future

The United States became the first country in the world to enact regulations on exhaust gas due to the worsening problem of air pollution. With regulations regarding automobiles becoming more rigid in the 1960s, we developed electronic fuel injection (EFI) systems with a focus on creating an even better tomorrow. As EFI systems have free control over the engine, we believe they could become a future mainstay product that could clear next-generation environmental regulations without sacrificing fuel efficiency and drivability. We therefore commenced the development of these systems even without a previous track record of doing so. Based on the idea that individual components should be thought about, designed, and evaluated based on the overall system that is the automobile, we were able to produce a demo vehicle equipped with an internally developed EFI system. This demo vehicle was introduced to our customers. The endeavor reflected our desire to enhance the attractiveness of automobiles while addressing their negative aspects and to provide the highest level of quality possible from the customer’s perspective. This desire remains unchanged to this day.

“Provide quality products and services.”
DENSO's innovations start from a focus on the future and what makes people happy. Our mission as a corporation is to anticipate changes in society and resolve social issues from the perspective of sustainability. Based on this mission, we have continued to realize growth while consistently leading changes in the mobility domain and repeatedly pursuing innovations and new creations. Throughout this journey, we have cultivated strengths and capabilities that will continue to be the source of our value creation well into the future, thereby expanding our business domains.

### History of Creating Value to Address Social Issues

#### 1950s
Taking on the challenge of resolving social issues using cutting-edge technologies from the time of our founding
- Developed and mass-produced the battery electric vehicle DENSO-GO to reduce global greenhouse gas emissions.
- Developed Japan's first air conditioning systems for automobiles.
- Through thorough analysis, we continued to develop products that respond to environmental regulations, one after the other.

#### 1960s
Taking on the challenge of addressing air pollution in advance of tightening emission regulations
- Established the system for the common rail production of integrated circuits (ICs) for automobiles. Accumulated a large amount of knowledge on the importance of semiconductors and ICs by conducting thorough analysis.

#### 1970s
Responding to full-fledged regulations on exhaust gas and building a foundation for safety products
- Established Nissan's first airbag system for controlling exhaust gas. Vehicles equipped with DENSO systems comply with the world's strictest regulations at that time.
- Participated in the Comprehensive Automobile Traffic Control System (CACS) project initiated by the Ministry of International Trade and Industry (currently the Ministry of Economy, Trade and Industry). The technologies cultivated through our participation in this project would later help us develop car navigation systems and connected driving systems.

#### 1980s
 Accelerating the commercialization of safety systems for preventing traffic accidents causing fatalities
- Developed the world's first electronic control type door locks, which impressed the world with their ability to control exhaust gas, reduce fuel consumption, and lower high-speed waves. Able to operate even in rainy and foggy environments, these sensors helped enhance the safety of automobiles.

#### 1990s
Contributions to eco-friendly lifestyles with core technologies
- Formulated DENSO Eco Vision 2005. Accelerated efforts to reduce CO2 emissions from business activities.
- Developed our first front upward air conditioning systems using infrared to reduce CO2 emissions from business activities.

#### 2000s
- Formulated DENSO Eco Vision 2005. Accelerated efforts to reduce CO2 emissions from business activities.
- Developed our first front upward air conditioning systems using infrared to reduce CO2 emissions from business activities.

### History of Innovation and Creation

What We Have Cultivated in the Over 70 Years Since Our Founding

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The Greatest Strengths That Have Driven DENSO’s Growth

Our Three Cultivated Strengths

Over its 70-year history, DENSO has cultivated various unique strengths. These strengths have been passed down since DENSO’s founding and further refined through the Company’s DNA, the DENSO Spirit, which permeates the actions of all DENSO employees around the world. The connections between these strengths have driven DENSO’s growth over the years. Amid a challenging business environment going forward, DENSO will further enhance these strengths as the driving force behind value creation that is uniquely DENSO.

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DENSO’s Value Creation Story

DENSO’s Value Creation Story

The relationships between these strengths have driven DENSO’s growth over the years. Amid a challenging business environment going forward, DENSO will further enhance these strengths as the driving force behind value creation that is uniquely DENSO.

Relationship Between Our Three Strengths

1: Hitozukuri

2: Research and Development

3: Monozukuri

Hitozukuri

Spirit of Our Founding

Diversity

Skills

Research and Development

Foresight

Speed

Advanced Technologies

Technological Capabilities

Analytical Capabilities

Frontline Capabilities

Leverage knowledge gained from products in technological development

Refine and strengthen frontline technologies and capabilities

Create world-leading technologies as products

Support and realize sustainable growth as a source of value creation

The Key to Our Strengths

DENSO Spirit

Bodily Taking On New Challenges

No Matter What the Circumstances

The DENSO Spirit is one of foresight, credibility, and collaboration. It also establishes a culture of values and beliefs that DENSO has cultivated since its establishment in 1949. Accordingly, the DENSO Spirit is shared among all employees. As an action guideline that provides the driving force for contributing to the mobility society and the lifestyles of people as well as the source of our competitiveness, the DENSO Spirit permeates the actions of the approximately 170,000 DENSO Group employees around the world. Guided by this spirit, we are using the passion and ambition of all our employees as the driving force for implementing our day-to-day work procedures and accelerating innovation amid this period of dramatic change.

Global human resource development

Introducing a Global Common Personnel Management System to Promote the Active Role of a Diverse Group of Employees

DENSO introduced a global common personnel management system targeting the members of senior management at its headquarters and at each Group company. This system incorporates a “Global Individual Grade” that focuses on the individual capabilities of senior management members. By using a common grading tool to evaluate and promote its senior staff, DENSO allows its personnel around the world to develop their careers on a global scale.

Cultivation of young technicians

Nurturing Advanced Technicians as the Key to Corporate Growth

To nurture advanced engineers and technicians, DENSO has been operating the DENSO Industrial School (offering industrial high school and specialized vocational high school courses), which carries on the tradition of the technical training schools established in 1954. In addition to domestic Group companies, this school supports the development of technicians from certain suppliers and overseas offices. Many young technicians who participated in our educational systems have gone on to become WorldSkills Competition medalists who compete at the world’s highest level.

Significantly Enhancing the Performance of BEVs through a Highly Efficient Eco Heat Pump—A World-First Technology

Our highly efficient eco heat pump system, which is adopted in the Toyota bZ4X and the Subaru Solara, is a new product that helps increase the practicality of BEVs. This system makes effective use of energy in BEVs, which do not have an engine to provide a heat source, by extracting heat from outside air and using it as a heat source. To significantly increase cooling and heating performance compared with conventional products, we used advanced heat control technologies to simplify the refrigeration cycle into a receiver cycle. By doing so, we successfully improved cooling and heating performance while reducing the number of required components. In addition, the heat pump system is equipped with the world’s first existing function that activates when the BEV is moving, utilizing driving exhaust heat. This function helps improve the energy efficiency of BEVs. Furthermore, through DENSO’s ultrafine processing technologies, a strength of our Monozukuri activities, we realized the system’s high-performance compact chiller, which contributes to greater battery cooling performance.

New product for improved performance of BEVs

The heat pump system was made possible by the comprehensive knowledge and capabilities of the project’s diverse team members, comprising personnel from four Toyota Group companies and 16 divisions of DENSO. Going forward, we will continue to create attractive products for BEVs together with our customers by bringing together our three strengths of Hitozukuri, RD, and Monozukuri.

Further Enhancing Our Strengths

Promoting "DENSO Culture DX" through the Cultivation of AI-Savvy Human Resources

DENSO is promoting "DENSO Culture DX" activities, which involve maximizing the performance of its approximately 170,000 globally diverse human resources and fully utilizing the on-site know-how and data that it has cultivated for over 70 years. As part of the foundation to support these activities, we are accelerating efforts to provide AI-related training to all employees so that they can begin working in a manner that offers more added value. Specifically, we provide a wide range of educational content in accordance with employees’ level of AI understanding and individual circumstances. These educational activities help employees not only improve their own individual work and the work performed by their respective department but also realize operational and business reforms in collaboration with external stakeholders. Through the promotion of these activities, we aim to enhance the AI literacy of all employees at DENSO CORPORATION (training of 15,000 employees already completed as of July 2023, and 10% of them are expected to be proficient in AI within the year). In addition, by the end of Fiscal 2023, we aim to cultivate 2,000 AI-savvy human resources who can fully leverage AI in their duties.
2: Research and Development

By accurately ascertaining social needs, DENSO has created competitive products with a commitment to world-first and world-best offerings. In our R&D activities, which have been the starting point for the value creation that allows us to create such products, we are planning technologies in a wide range of fields with a focus on five to 20 years in the future and strengthening our R&D structure. Additionally, in technology development in each region, enhance the appeal of mobility, and contribute to the future mobility society, we operate technical centers and laboratories around the world.

1953 Commanded a technical cooperation agreement with Robert Bosch GmbH. Under this agreement, we established a technological and production base with the aim of becoming a comprehensive manufacturer of automotive parts that can keep pace with the world with global companies.

1985 Established Nippondenso America, Inc., with which we jointly created our first overseas technical center. Through this center, we built an optimized structure for the development, production, and supply of local products.

1991 Established the Fundamental Research Center (currently the Advanced Research and Innovation Center), at this center, we have carried out R&D activities on future technologies that cover a wide range of fields. Today, this center continues to create a large number of innovative technologies that lead to the development of world-first and world-best products.

2014 Completed the establishment of technical centers in seven regions across the globe. Through these centers, we have set up a structure to create competitive products that can promptly meet diversifying local needs.

2020 Established the Electrification Innovation Center (EIC), which promotes efforts to strengthen our development and production of products powered by electricity, and Global R&D Tokyo–Hiranuma, which conducts the development of automated driving and other technologies. By doing so, we have accelerated our R&D activities in the domains of green and peace of mind.

3: Monozukuri

Since its inception, DENSO's Monozukuri (manufacturing) has thoroughly integrated in-house technologies. Through Monozukuri positive steps are taken to design and manufacture equipment, production lines, materials, and processing methods. This enables us to provide society with the world’s most advanced groundbreaking technologies and products conceived by our R&D team. We have driven to develop and efficiently produce products that are compact, unique, that, as well as streamlined production and inspection methods have been achieved to create innovative products. In recent years, we have made efforts to digitalize the production line anew, a trend that has been accelerated over many years on the manufacturing front lines and leverage it as explicit knowledge. This has enabled us to also ensure high efficiency and high-quality and offer competitiveness and added value to our products.

1968 Created the IC Research Center to establish a structure for the production of semiconductor products completely in-house in anticipation of the shift to the electronic control of automotive parts in the future.

1972 Established our first overseas production company. Since then, we have accelerated the establishment of additional overseas production companies, helping us gain an understanding of the needs in each region and begin production activities that meet those needs.

1979 Received the Osaka Memorial Production Prize. This prize was received in recognition of our highly accurate, high-quality Monozukuri that was realized through our comprehensive in-house manufacturing of production lines and equipment.

1984 Launched a project for the practical application of robotics. Furthermore, the development of such technologies as barcodes and RFID, which were pursued in a similar manner, helped establish the foundation of our current factory automation (FA) business.

1997 Commenced Excellent Factory (EF) activities. We began to expand activities on a global basis to improve our factories, led by personnel on the front lines of production. These EF activities represent the origins of DENSO’s ambitious activities focused on quality improvements.

Since 1990, we have contributed to the improvement of our factories by introducing digital technology and the creation of a manufacturing system that allows for the efficient production of products. This process has been repeated over many years, and our factories now have a high level of competitiveness. In recent years, we have made efforts to digitalize the production line anew, a trend that has been accelerated over many years on the manufacturing front lines and leverage it as explicit knowledge. This has enabled us to also ensure high efficiency and high-quality and offer competitiveness and added value to our products.
## Capitals That Enable Us to Be a Leading Company in the Mobility Domain

### Our Accumulated Capitals

The capitals that we have accumulated while achieving growth as a company now support our business activities and provide us with a source for enhancing our corporate value. Efforts to refine the substance of the strengths that drive our growth will allow us to reinforce our human, manufacturing, intellectual, natural, and social and relationship capitals, which in turn will help us increase our financial capital. To realize sustainable growth through this kind of cycle, we will not only maintain but also enhance these capitals going forward.

### Financial Capital

**Striving to Realize a Slim, Sturdy, and Flexible Operating Structure**

To continue to contribute to society through the concepts of “green” and “peace of mind,” we need to be able to realize sustainable business growth by expanding our equity spread. By accomplishing this, we are able to generate capital for investing in capital expenditures, R&D activities, and human resources. Through the steady execution of our new financial strategies, we aim to realize a slim, sturdy, and flexible operating structure.

#### ROE

<table>
<thead>
<tr>
<th>Year</th>
<th>ROE (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiscal 2021</td>
<td>6.4%</td>
</tr>
</tbody>
</table>

#### Ratio of Overseas Employees

<table>
<thead>
<tr>
<th>Year</th>
<th>Ratio (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiscal 2021</td>
<td>53%</td>
</tr>
</tbody>
</table>

#### Capital Expenditures

<table>
<thead>
<tr>
<th>Year</th>
<th>Expenditures (¥ billion)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiscal 2021</td>
<td>353.9</td>
</tr>
</tbody>
</table>

### Intellectual Capital

**Promoting R&D Activities That Realize World-First and World-Best Offerings**

We find ourselves in the midst of a paradigm shift in which new technologies are being created at a tremendous speed, and the nature of business itself is changing. In this environment, there is a need to bolster R&D capabilities to secure a competitive advantage if we are to enhance corporate value. To that end, we will boost our investment efficiency through the introduction of cutting-edge technologies and promote intellectual property strategies that are aligned with our business strategies. By doing so, we will expand our development domains and accelerate development speed.

#### R&D Expenses

<table>
<thead>
<tr>
<th>Year</th>
<th>Expenses (¥ billion)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiscal 2021</td>
<td>497.6</td>
</tr>
</tbody>
</table>

### Natural Capital

**Pursuing Environmental Neutrality in Order to Both Preserve the Global Environment and Create Economic Value**

DENSO’s business activities have a close relationship with natural capital as we use our world-class materials and resources as raw materials for our products. For that reason, minimizing the impact we have on natural capital is an important theme for DENSO. In addition to further refining our long-established environmental technologies, we will pursue a wide array of efforts to become environmentally neutral, including the efficient use of natural capital and the reduction of our environmental burden.

#### CO₂ Emissions (Consolidated)

<table>
<thead>
<tr>
<th>Year</th>
<th>Emissions (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiscal 2021</td>
<td>2.06 million</td>
</tr>
</tbody>
</table>

### Social and Relationship Capital

**Strengthening Our Bonds with Diverse Stakeholders through Dialogue in Pursuit of Mutual Growth**

For a company like DENSO, which promotes its business activities while being involved with a wide range of stakeholders, building good relationships with stakeholders and gaining even more allies are imperative elements for enhancing corporate value. To that extent, we are repeatedly holding dialogues with stakeholders in order to deepen our understanding of social expectations and external opinions. We are also working to increase the number of allies with whom we collaborate. Such efforts will allow us to strengthen and expand our various types of capital.

#### Number of Supplier Companies

<table>
<thead>
<tr>
<th>Year</th>
<th>Companies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiscal 2021</td>
<td>6,500</td>
</tr>
</tbody>
</table>

### Manufacturing Capital

**Skills That Continuously Evolve and On-Site Capabilities That Enable Constant Improvements**

As software becomes more extensively involved and utilized in automobiles and as DENSO grows its business domains, we believe there are two major elements to achieving differentiation: “high-quality, highly reliable, and world-leading Monozukuri,” which we have cultivated in the automobile domain, a domain where people entrust their lives to us, and “the ability to offer a stable supply on a global basis.” To that extent, we strive to evolve Monozukuri through the utilization of digital twin technologies, energy-saving technologies, and other innovative technologies.

#### Manufacturing Capital Expenditures

<table>
<thead>
<tr>
<th>Year</th>
<th>Expenditures (¥ billion)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiscal 2021</td>
<td>374.3</td>
</tr>
</tbody>
</table>

### Human Capital

**Turning Our People and Organization into a Group of Professionals with the Ability to Make Their Ambitions a Reality**

To create new value, it is essential to have a group of employees with diverse thoughts and ideas working with enthusiasm and sufficiently leveraging their capabilities. To that end, we will promote efforts to enable employees to envision their dreams and make them a reality while also striving to improve the well-being of employees and maintain and enhance their level of engagement with their work and the organization.

#### Ratio of Overseas Employees

<table>
<thead>
<tr>
<th>Year</th>
<th>Ratio (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiscal 2021</td>
<td>53%</td>
</tr>
</tbody>
</table>

#### Capital Expenditures

<table>
<thead>
<tr>
<th>Year</th>
<th>Expenditures (¥ billion)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiscal 2021</td>
<td>374.3</td>
</tr>
</tbody>
</table>

### Relationship Capital

**Stakeholders through Dialogue in Order to Both Preserve the Global Environment and Create Economic Value**

With business operations in over 30 countries and regions around the globe, DENSO enjoys a diversified group of employees with diverse thoughts and ideas. Through continuing dialogue and active engagement, we are working to expand the number of allies with whom we collaborate. Such efforts will allow us to strengthen and expand our various types of capital.

#### Number of Supplier Companies

<table>
<thead>
<tr>
<th>Year</th>
<th>Companies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiscal 2021</td>
<td>6,450</td>
</tr>
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</table>
DENSO was established as a manufacturer of electrical equipment and radiators. Since its establishment, the Company has expanded its business domains in conjunction with social change, applying the technologies it has cultivated in the mobility domain, its main area of operation, to develop lifestyle- and industrial-related equipment. At the moment, DENSO has seven core businesses that devise solutions for the mobility society of the future. Centered on these core businesses, DENSO is making full use of the technologies it has accumulated in the mobility domain as it pursues a variety of businesses that support the mobility society of the future.

**Pursuing a Variety of Businesses That Will Support the Mobility Society of the Future**

**Creating New Value through Our Seven Core Businesses**

- **Electrification**
  - Reducing Environmental Burden and Realizing Highly Efficient Mobility
  - DENSO has been engaged in the development of electrified vehicle systems that are eco-friendly and enable even more comfortable travel. As a result, DENSO has realized high-functioning, compact, and fuel-efficient products integral to these systems and is producing these products around the world. Going forward, we will leverage our expansive business domains to form linkages between various in-vehicle systems and products in an effort to efficiently manage energy within vehicles. In this manner, we will further improve fuel efficiency and contribute to the conservation of energy.

- **Advanced Safety and Automated Driving**
  - Realizing a Safe Society without Fatalities from Traffic Accidents, and Free and Comfortable Mobility
  - DENSO aims to create a mobility society without fatalities from traffic accidents and in which all people can move safely and with peace of mind. Guided by this aim, DENSO has developed reliable, high-quality safety technologies. By enhancing our long-cultivated sensing technologies as well as our AI and information technologies, we will further contribute to the development of automated driving. Also, we are moving forward with the development of control technologies, including for in-vehicle air quality and temperature, in order to realize more comfortable mobility. Maintaining our firm commitment to quality, which we have adopted since our founding, we will deliver genuine peace of mind for the future of the mobility society.

- **Connected Driving**
  - Realizing a New Mobility Society That Connects Vehicles, People, and Goods
  - Amid the major transition from the trend of owning a vehicle to the trend of using a vehicle as a service, DENSO is pursuing efforts in the Mobility-as-a-Service (MaaS) business, which involves providing mobility services that move people and goods. Going forward, we aim to provide safe, secure, and efficient transportation methods with low environmental burden for people with vehicles and for those without, thereby contributing to the realization of a new mobility society.

- **Non-Automotive Businesses**
  - (FA and AgTech)
  - Contributing to Improved Social and Industrial Productivity
  - DENSO has a solid track record of introducing factory automation (FA) systems in 1,380 factories. Leveraging this record, we will propose and provide FA systems that can meet the diverse needs of our customers, thereby making extensive contributions to the development of the Monozukuri (manufacturing) industry. Also, with the aim of delivering happiness to all people through agriculture, we will draw on the expertise and knowledge we have cultivated in the automotive field to offer new value in the food and agriculture industries.

- **Industrial Solutions**
  - Enhancing the productivity of the Monozukuri (manufacturing) industry and contributing to an improved quality of life
  - Main products: Automated modules, vertical-articulated robots

- **Food Value Chain**
  - Combining technologies and ideas to contribute to an enriched society where all people can live safely and with peace of mind
  - Main products: Horticultural facility-related products, compact mobile refrigeration units

- **Advanced Devices**
  - Leading the industry in sensing and semiconductor technologies and energy management that are eco-friendly and help realize a mobility society with comfort and peace of mind
  - Main products: Power cards, MCV-e

**Relationship between Our Four Focus Fields and Seven Core Businesses**

<table>
<thead>
<tr>
<th>Four Focus Fields</th>
<th>Seven Core Businesses</th>
</tr>
</thead>
</table>
| **Electrification** | **Electrification Systems**
  - Supporting electrification to achieve an enriched environment and comfortable mobility
  - Main products: Power control units, motor generators |
| **Advanced Safety and Automated Driving** | **Powertrain Systems**
  - Providing solutions that help overcome the seemingly contradictory task of balancing the joy of life with vehicles with superior environmental performance
  - Main products: Diesel common rail systems and gasoline direct-injection products |
| **Connected Driving** | **Thermal Systems**
  - Resolving various thermal-related issues present in the mobility society in order to realize a more comfortable society for both the earth and its people
  - Main products: Heat pump systems, main products: Car air-conditioning systems, bus air-conditioning units |
| **Non-Automotive Businesses** | **Mobility Electronics**
  - Realizing a society in which all people can move comfortably and with peace of mind (Quality of Mobility)
  - Main products: HEV ECUs, BEV ECUs, Vision sensors, millimeter-wave radar sensors |
| **Advanced Devices** | **Advanced Devices**
  - Main products: Semiconductor sensors |
DENSO’s Value Creation Process

Maximizing the Value of “Green” and “Peace of Mind” to Continue to Grow with Society

To fulfill the DENSO Philosophy, we are incorporating social issues into our Long-term Policy for 2030 and into our material issues (Materiality) and are implementing sustainability management that works to resolve social issues through our business activities. By doing so, we will contribute to a sustainable society and improve our corporate value.

**The value we offer society**
- We contribute to an eco-friendly mobility society by promoting the widespread use of products powered by electricity. [Page 50, 84–85, 88–89]
- We contribute to an energy-efficient society through CO2 capture, storage, and recycling technologies. [Page 50]
- We will realize completely carbon-neutral Monozukuri activities by achieving net-zero emissions at our plants. [Page 68–69, 72–76]
- We contribute to the permanent preservation of the global environment by reducing environmentally harmful substances. [Page 72–76]
- We help eliminate fatalities from traffic accidents by popularizing and enhancing safety products. [Page 51, 90–91]
- We provide comfortable spaces that meet the need for safe air environments. [Page 51, 88–89]
- We offer technologies that support working people to address the issue of a declining workforce. [Page 51, 94–97]
- We provide safe and secure products and technologies through rigorous quality control activities. [Page 115]

**Controlling Factors That Negatively Impact Our Value Creation**

We are implementing measures to respond to risks that could negatively impact our value creation.

TCFD [Page 73–76]
Risk Management [Page 69–70]
Undertaking Initiatives toward Respecting Human Rights [Page 79]
Promoting Electrification and Contributing to a Carbon-Free Society through Next-Generation Silicon Carbide Power Semiconductors

To realize the DENSO Philosophy, which is grounded in the ideals of the DENSO Creed, we are pursuing sustainability management that focuses on resolving social issues through our business activities. Utilizing our newly developed silicon carbide (SiC) power semiconductors as an example, this section introduces DENSO’s value creation story, including the strengths we have cultivated over our history that have led to the resolutions of social issues as well as our vision for the future.

Social Issues: Increase in Electricity Consumption Following the Evolution of Mobility and Popularization of Electrified Vehicles

The sales volume of electrified vehicles that significantly contributes to reducing environmental burden is estimated to increase by 15 times between 2020 and 2035, leading to an expected increase in the volume of electricity consumption. Enhancing power usage efficiency and controlling the rise in electricity consumption are the keys to promoting the popularization of electrified vehicles and the shift to smart mobility in the future.

Contribution to Popularizing Electrified Vehicles and Reducing CO2 by Enhancing Power Efficiency through SiC Power Semiconductors

To popularize electrified vehicles and contribute to the reduction of CO2 while resolving the social issue of increasing electricity consumption, DENSO has developed SiC power semiconductors that incorporate unique patented technologies.

Characteristics of SiC Power Semiconductors and Contributing Fields

Power semiconductors are semiconductors that receive instructions from the electronic control unit (ECU) to operate inverters or motors. To ensure that power semiconductors required for the energy management of electrified vehicles endure the harsh in-vehicle environment, it was necessary to develop power semiconductors that use SiC. Since SiC performs very well under high-temperature, high-frequency, and high-pressure environments similar with the silicon that has been used up until now, it has gained attention as a raw material that reduces power loss in inverters, contributes greatly to downsizing, and accelerates the electrification of mobility. However, since commercially available SiC materials did not deliver the quality requirements for in-vehicle use, it was necessary to develop the material in-house. DENSO has produced SiC that can endure the in-vehicle environment by developing high-quality materials.

Capabilities and Strengths Built Up during Our History of Semiconductor Development to Date

The reason DENSO was able to develop semiconductors that can endure the harsh in-vehicle environment was the capabilities and strengths built up during our long history of developing semiconductors.

The history of initiatives for in-vehicle semiconductors at DENSO dates back to the 1960s, when a research center for in-vehicle semiconductors was set up with the aim of shifting to in-house production. Additionally, we have promoted initiatives for mass production and commercialization through vertically integrated development capabilities that cover the entire process, from material development and production through to system design. Furthermore, DENSO has completed the development of tough semiconductor products by repeatedly measuring and improving the endurance of products under extreme environments to understand what kind of environment the developed products can operate normally under.

DENSO has also completely commercialized SiC power semiconductors over a period of approximately 25 years.

Value Provided to Society

Realization of a Carbon-Free Society

By further popularizing the SiC power semiconductors newly developed by DENSO, we have been able to popularize electrified vehicles and promote CO2 reduction, contributing to one of the goals of DENSO’s environmental strategy—contribute to the electrification of automobiles and reduce our CO2 emissions to the greatest extent possible. Furthermore, we are continuously working to achieve a low-carbon society and then carbon neutrality by 2035 for a future where electricity will be essential in even more situations.

Further Evolution of Power Semiconductors and Their Connection to Carbon Neutrality

Despite achieving commercialization of SiC power semiconductors, SiC is only just at the threshold of electrification. The true value of DENSO’s semiconductors will be tested to see whether they can fully meet the expectations for electrification, which is experiencing a fully-fledged acceleration. Furthermore, there are numerous possibilities for SiC power semiconductors. Going forward, the application of power semiconductors in wireless power and wireless power transfer to moving vehicles in the future will enable power supply systems to become significantly smaller and more efficient. Additionally, semiconductors must become even tougher as new electrified mobility becomes tougher, as exemplified by the all-electric vertical take-off and landing (eVTOL) aircraft, which is essentially a flying car, relative to construction machinery and conventional mobility like commercial trucks. Power semiconductors that operate in a stable manner should be used in these situations. We will continue striving to meet new needs as a whole by utilizing experience gained from the commercialization of SiC.
Accelerating Efforts toward Sustainability Management
One of the ideals of the DENSO Creed is “provide quality products and services.” This ideal signifies DENSO’s approach since its founding for continuing to be a company that society needs by pursuing innovations in anticipation of the changing times and resolving social issues through quality products and services. In addition, this ideal serves as the basis for our approach to sustainability management, toward which we are currently accelerating efforts. Furthermore, we have established the DENSO Group Sustainability Policy to ensure that all DENSO employees act appropriately as members of a global organization and in accordance with the DENSO Creed and DENSO Philosophy throughout the interactions they have with our stakeholders and with society as a whole.

Long-term Policy for 2030
In the promotion of sustainability management, DENSO has formulated the Long-term Policy for 2030, which serves as a vision for what the Company aims to be by 2030. In addition to maximizing the value we provide through “green” and “peace of mind,” two of our fundamental areas of focus, we have adopted the theme of “inspiring” and are working to create new value for society that can inspire our diverse stakeholders.

Promotion Structure for Sustainability Management
DENSO has appointed members of the Board and senior executive officers as the personnel in charge of sustainability management and has entrusted the promotion function for Companywide sustainability management to the Corporate Strategy Division. This division is involved in such efforts as drafting policies and action plans related to sustainability, providing follow-up support for the sustainability activities of each division, and engaging in internal and external communication. Furthermore, matters such as the direction of sustainability management and the status of Companywide sustainability activities are reported to and deliberated on by the Company’s formal committees (such as the Management Deliberation Meeting) and overseen by the Board of Directors. In addition, the divisions in charge of individual sustainability themes promote activities to address these themes in collaboration with relevant divisions and after deliberation on said themes by each expert committee.

Promotion Structure and Division for DENSO’s Sustainability Management

*1 Strategies deliberated on by the Management Strategy Meeting and the Management Deliberation Meeting (see page 101).
*2 With committees in charge of these themes, such as the Quality Assurance Meeting and the Companywide Safety, Health, and Environment Committee serving as the secretariat, initiatives to address these themes are deliberated on by the Company’s formal committees.
Aims and Road Map for 2030

The DENSO Philosophy provides the foundation for drawing the outline of the Company’s management policies, and sustainability management acts as the core mechanism for realizing these policies. In light of the aforementioned changes in the business environment and from the perspectives of both risks and opportunities, DENSO has formulated its Long-term Policy for 2030, which serves as our vision for 2030. The Company also established material issues (Materiality) and various strategies as a path for realizing its Long-term Policy for 2030. Through these efforts, DENSO is implementing sustainability management.

Recently, we integrated our Long-term Plan for 2025, our Mid-term Policy for 2021, and the three strategies we are promoting under Reborn21 into the new Mid-term Policy for 2025. By promoting this policy alongside our strategies related to green and peace of mind, we will aim to realize our Long-term Policy for 2030.

Growth Indicators to Realize the Long-term Policy for 2030 and Social Issues We Aim to Resolve

To realize its Long-term Policy for 2030, DENSO is working to achieve growth in its top line by realizing growth in new mobility domains and promoting management reforms, among other efforts. However, with the increased level of uncertainty regarding the outlook for consumption demand, and based on the fact that our highest priority issue recently has been to establish a structure that is resilient to changes in the business environment, we are now placing the most emphasis on profitability as an indicator for growth and aim to achieve ROE of 10% or higher and an operating margin of 10% by fiscal 2026. Furthermore, we have made connections between the social issues we aim to resolve through our business activities and the Sustainable Development Goals (SDGs), and have clarified the goals we aim to achieve on a Companywide level. At the same time, our employees have determined individual goals that they can work toward through their job and are working on a daily basis to do so.
### Awareness of Business Environment

Amid the ever-increasing global population, aging societies, and advanced urbanization, the progression of global warming and the increase in traffic accidents are becoming serious social issues. In particular, people’s values are diversifying and these issues are becoming increasingly more complex as a result of the digitalization of society and the advancements in robotics, the reversals of the COVID-19 pandemic, and rising geopolitical risks. Furthermore, in the mobility domain, measures are being taken to address a number of issues, such as efforts toward achieving carbon neutrality, reducing traffic accidents, and easing traffic congestion. These issues, coupled with the proliferation of IoT and AI, have led to advancements in electrification, automated driving, and connected driving.

Going forward, we will continue to pursue the resolution of social issues while accurately assessing and responding to risks and opportunities related to these various social changes.

#### Social Changes as of 2030 and Key Initiatives for DENSO

We are narrowing down our forecasts of future society, revising them every year through PEST (political, economic, social, and technological) analysis, using social changes as of 2030 as a key theme. In accordance with this theme, we have analyzed risks and opportunities and identified key initiatives for DENSO moving forward. We will work to gain an accurate understanding of the outlook for the CASE evolution and changes in the mobility society, and thoroughly examine whether or not these changes will have an impact on the key initiatives of DENSO.

#### Key Initiatives for DENSO

### Maximizing the Value of “Green” and “Peace of Mind” to Be Inspiring

The rapid changes in society that will occur going forward (such as changing values and behavior) present a significant opportunity for a company such as DENSO, which has continued to refine technologies and gain experience in the mobility domain. With the aim of reducing our environmental burden and realizing a society without traffic accidents, we will actively promote the creation of a mobility society with a view to achieving the goals of “sustaining viability for the environment” and “safe, comfortable, and flexible life for all people.” Furthermore, we will leverage the technologies we have cultivated through automotive products, system development, and Monozukuri to offer peace of mind and safety not just in the mobility domain but to all people in society.

By doing so, we will continue to create new value that inspires society.

### Reinforcing the Corporate Foundation That Underpins Our Value Creation

To flexibly resolve social issues, which are becoming more complex and diverse, we need to strengthen our risk management and governance framework with the aim of minimizing the impacts of risk. It is also important that we cultivate professional human resources and establish a vibrant organizational culture. In these ways, we will support the creation of higher quality value at faster speeds by reinforcing our management foundation.
We have determined material issues (Materiality) to be addressed in order to achieve our Long-term Policy for 2030 and are accelerating sustainability management in an effort to resolve these issues. Among our social forecasts based on our awareness of the projected business environment of 2030 as well as the various social issues that are present today, including those highlighted in the SDGs, we have adopted the three themes of “green,” “peace of mind,” and “corporate foundation” as areas that have a high level of importance for realizing a sustainable society and areas in which we can make particularly significant contributions. Accordingly, we are sharing information on the material issues we have identified in each of these fields on our corporate website and have established a specific vision and KPIs (numerical indicators, or guides) related to each material issue we have identified. By achieving these KPIs through our business activities, we will strive to realize our Long-term Policy for 2030 and resolve social issues going forward.

Materiality

DENSO has selected important issues from among the various issues society faces within the three areas of “green,” “peace of mind,” and “inspiring” declared under DENSO’s Long-term Policy for 2030.

Process for Determining Materiality

DENSO evaluates the importance of each issue to society and their importance to management and selects their material significance (Materiality) through an approval process at the management level while receiving opinions and advice from third parties.

1. Reflect on DENSO’s past sustainability activities
2. Identify social issues by referencing the SDGs and ESG trends (FTSE, MSCI, etc.)
3. Set priorities and determine targets by analyzing the degree of importance to the Company and to society as a whole
4. Discuss with external experts (stakeholder engagement)
5. Discuss and approve at the management level

Materiality KPIs

We establish KPIs for each of the identified material issues (Materiality), incorporate them into Company targets, and follow up on and discuss at the Management Deliberation Meeting and the Board of Directors’ meeting. Furthermore, the level of achievement for some KPIs is evaluated as a calculation index for executive compensation.

<table>
<thead>
<tr>
<th>Materiality</th>
<th>Vision</th>
<th>KPIs (Fiscal 2023)</th>
<th>Related SDGs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prevention of global warming</td>
<td>Contribute to achieving and maintaining sustainable society by reducing environmental burden and achieving highly efficient mobility</td>
<td>Reduce CO2, emissions from factories to zero</td>
<td></td>
</tr>
<tr>
<td>Prevention of air pollution</td>
<td>Reduce CO2 emissions from fossil fuel use in vehicles and electricity use in factories by 2020</td>
<td>Reduce CO2 emissions from fossil fuel use in vehicles and electricity use in factories by 2020</td>
<td></td>
</tr>
<tr>
<td>Effective utilization of resources</td>
<td>Contribute to realizing a carbon-neutral society through technologies that capture, store, and reuse CO2</td>
<td>Develop technologies that capture, store, and reuse CO2</td>
<td></td>
</tr>
<tr>
<td>Conservation of water resources</td>
<td>Contribute to achieving a sustainable society by reducing water consumption while complying with laws and regulations in each country and region</td>
<td>Reduce water consumption in factories and comply with laws and regulations in each country and region</td>
<td></td>
</tr>
<tr>
<td>Reduction of traffic accidents</td>
<td>Promote safe products in order to eliminate fatalities due to traffic accidents</td>
<td>Promote safe products in order to eliminate fatalities due to traffic accidents</td>
<td></td>
</tr>
<tr>
<td>Provision of flexible and comfortable movement</td>
<td>Address the need for ensuring a safe and comfortable space</td>
<td>Ensure a safe and comfortable work environment</td>
<td></td>
</tr>
<tr>
<td>Provision of safe and secure products</td>
<td>Support working people by offering technologies that help resolve social issues associated with digital workspaces</td>
<td>Provide high-quality safety products that satisfy and gain the trust of customers</td>
<td></td>
</tr>
<tr>
<td>Response to decrease in birthrate and aging population</td>
<td>Promote the development of technologies that help resolve the issues associated with a declining workforce</td>
<td>Promote the development of technologies that help resolve the issues associated with a declining workforce</td>
<td></td>
</tr>
<tr>
<td>Compliance</td>
<td>Ensure that each employee acts in a fair, honest, and ethical manner while complying with laws and regulations in each country and region</td>
<td>Ensure compliance with laws and regulations in each country and region</td>
<td></td>
</tr>
<tr>
<td>Information security</td>
<td>Provide safe and reliable products to customers, protect information assets, and prepare for cybersecurity risks that the “connected society” poses</td>
<td>Protect information assets and prepare for cybersecurity risks that the “connected society” poses</td>
<td></td>
</tr>
<tr>
<td>Diversity and inclusion</td>
<td>Promote the development of people, organizations, and the working environment to encourage our employees to maximize their abilities and work with enthusiasm and peace of mind.</td>
<td>Promote the development of people, organizations, and the working environment to encourage our employees to maximize their abilities and work with enthusiasm and peace of mind.</td>
<td></td>
</tr>
<tr>
<td>Healthy and safe working environment</td>
<td>Protect employees from accidents while ensuring workers in the field are engaged with customers in a safe and secure manner.</td>
<td>Protect employees from accidents while ensuring workers in the field are engaged with customers in a safe and secure manner.</td>
<td></td>
</tr>
<tr>
<td>Workstyle reform / Job satisfaction enhancement</td>
<td>Support workers by offering technologies that help resolve the issues associated with a declining workforce</td>
<td>Support workers by offering technologies that help resolve the issues associated with a declining workforce</td>
<td></td>
</tr>
<tr>
<td>Protection of human rights / Sustainable procurement</td>
<td>Introduce a comprehensive approach to work engagement at DENSO CORPORATION.</td>
<td>Introduce a comprehensive approach to work engagement at DENSO CORPORATION.</td>
<td></td>
</tr>
<tr>
<td>Corporate governance</td>
<td>DENSO will support the above targets for Materiality and progress to a more effective governance system as necessary based on factors such as social trends, changes to the external environment, and DENSO Corporation’s culture.</td>
<td>DENSO will support the above targets for Materiality and progress to a more effective governance system as necessary based on factors such as social trends, changes to the external environment, and DENSO Corporation’s culture.</td>
<td></td>
</tr>
</tbody>
</table>
Results of the Long-term Plan for 2025 and Mid-term Policy for 2021

In 2017, we formulated the Long-term Plan for 2025 (with fiscal 2026 as the year of achieving these goals) as a pathway to reaching out Long-term Policy for 2030. Additionally, we have established the Mid-term Policy for 2021 (with fiscal 2022 as the year for achieving these goals) as a three-year action plan for steadily advancing the Long-term Plan for 2025. By undertaking these initiatives, we aim to contribute to a sustainable society and enhance corporate value. The results of these initiatives are as follows:

Relationship between Mid-term Policy for 2021 and Reborn21
Since fiscal 2019, we have been steadily implementing an action plan based on the Mid-term Policy for 2021, but factors such as the COVID-19 pandemic in fiscal 2020 and quality-related issues on an unprecedented scale have shaken the foundation of DENSO. Accordingly, the Mid-term Policy for 2021 has been replaced by a new set of targets framed as Reborn21, a reform plan aimed to transform the Company into a “high-quality DENSO,” which reflects the progress made and the latest business environment.

Growth of the Four Focus Fields
By pursuing value from the perspective of the vehicle, we will accelerate the commercialization of new mobility fields, thereby driving growth.

Electrification
- Cumulative Electrification Group’s R&D investments from fiscal 2019 to fiscal 2022: Approximately ¥200.0 billion
- Establishment of Bluespex Corporation, a joint venture company for the sale and development of the drive module to popularize electrification
- Creation of the ELEKTRON brand, an electrification product line
- Development and market launch of the world’s highest level of heat management systems

Advanced Safety and Automated Driving
- Cumulative AD & ADS Business Unit’s R&D investments from fiscal 2019 to fiscal 2022: Approximately ¥240.0 billion
- Establishment of joint venture J-QAUD DYNAMICS Inc. for development of integrated control systems
- Expansion of retrofitting products for already-sold vehicles, such as acceleration control devices for when drivers accidentally step on the gas pedal
- Development and market launch of Global Safety Package 3 (GSP3), an active safety system product

Connected Driving
- Subsidiary acquisition of DENSO TONE Limited (formerly FUJITSU TONE) to reinforce competitiveness in the connected domain
- Development and market launch of cloud-based taxi dispatch system
- Development and market launch of an accident prevention support system that utilizes data from drive recorders
- Acceleration of technology development through investment in Uber ATG and other ventures
- Development of digital key systems for mobility service providers and commercialization in North America

Non-Automotive Businesses (FA and AgTech)
- Declaration of ¥300.0 billion in sales by 2030
- Development and market launch of D Series process rationalization solution
- Development and market launch of 4D-microns compact mobile refrigerator in collaboration with Yamaha Transport Co., Ltd.
- Development of traceability system that utilizes QR codes and blockchain technology

Five Pillars of Management Reform
To achieve the Long-term Policy for 2030, DENSO must transition to an organization that acts with unprecedented levels of speed and can invigorate the workplace. To that end, DENSO has adopted the Five Pillars of Management Reform and has been working to realize significant change in its management structure to enhance its organizational capabilities and compete in a challenging business environment.

<table>
<thead>
<tr>
<th>Five Pillars of Management Reform</th>
<th>Results and Examples</th>
<th>Evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aim</td>
<td>- Realization of functional management speed in operating departments through introduction of cross-sectional organization that creates value across vehicles</td>
<td>・Implementation of a shift of power to operating departments</td>
</tr>
<tr>
<td>2. Advanced R&amp;D Function to Realize Agile Development Globally</td>
<td>- Administration of laboratories around the world by headquarters</td>
<td>・Promotion of alliances and establishment of laboratories around the world</td>
</tr>
<tr>
<td>Aim</td>
<td>- Promotion of de-emphasis and disincentive* activities through formulation of a business portfolio that utilizes DENSO’s unique style of ROIC</td>
<td>・Promotion of de-emphasis and disincentive* activities through formulation of a business portfolio that utilizes DENSO’s unique style of ROIC</td>
</tr>
<tr>
<td>3. Business Unit Evolution and Smaller but Stronger Headquarters</td>
<td>- Promotion of de-emphasis and disincentive* activities through formulation of a business portfolio that utilizes DENSO’s unique style of ROIC</td>
<td>・Promotion of de-emphasis and disincentive* activities through formulation of a business portfolio that utilizes DENSO’s unique style of ROIC</td>
</tr>
<tr>
<td>Aim</td>
<td>- Realization of value creation and provision of professional services through reformation of management operations in functional departments</td>
<td>・Transfer of responsibility and authority to operating departments through introduction of cross-sectional organization that creates value across vehicles</td>
</tr>
<tr>
<td>4. Global Management with Optimal Use of Group and Regional Power</td>
<td>- Realization of value creation and provision of professional services through reformation of management operations in functional departments</td>
<td>・Transfer of responsibility and authority to operating departments through introduction of cross-sectional organization that creates value across vehicles</td>
</tr>
<tr>
<td>Aim</td>
<td>- Autonomous rotation of the PDCA cycle with a timely understanding of conditions in each region</td>
<td>・Establishment of an information sharing and strategy creation system that utilizes the strengths of the region through the roles of research and suggestion, not only through PDCA within the region</td>
</tr>
<tr>
<td>5. Ways of Working with Tremendous Speed and Efficiency</td>
<td>- Establishment of an information sharing and strategy creation system that utilizes the strengths of the region through the roles of research and suggestion, not only through PDCA within the region</td>
<td>・Establishment of an information sharing and strategy creation system that utilizes the strengths of the region through the roles of research and suggestion, not only through PDCA within the region</td>
</tr>
</tbody>
</table>

Innovative Values and Initiatives Going Forward:
Initiatives for reform have been progressing smoothly. Based on internal reviews, we have reflected the following key initiatives in the Mid-term Policy for 2025:

- Reassessment of DENSO vision and strategies through conceptualization of world views in 2035 and backcasting
- Clarification of areas to be addressed as new businesses in the expanding business domain
- Realization and acceleration of implementing human resource portfolio that achieves business portfolio reform
- Creation of a workplace that enables full demonstration of individual capabilities for 170,000 employees, with a focus on the shift to DX at all plants

Reinforcement of Profitability for Existing Businesses
Creation of a Perfect Earnings Base to Support Future Growth
- Reinforcement of our ability to respond to changes in demand: Enhance productivity through introduction of F-IT, reorganize global production and supply system, etc.
- Reduction of fixed costs: Reorganize and aggregate shared service companies, make R&D in the software domain more efficient, etc.

Technology Development for Achieving Overwhelming Competitiveness
Aggregate technology development for ECUs, semiconductors, sensors, and motors for achieving overwhelming competitiveness of components and systems (Please see the next page for details)
Results of DENSO Revolution Plan “Reborn21”

Since fiscal 2020, DENSO’s operating environment has continued to undergo dramatic changes. These changes have included the impacts of the COVID-19 pandemic, which caused a massive decline in sales. In addition, we saw the occurrence of a quality-related issue, which shook the foundation of our management. In response to these developments, we have been working to restore our quality, which is the foundation of our business and trust, and to transition to a firm and robust corporate structure, which will allow us to respond to changes in the external environment in any age and provide new value. With these aims, we formulated the DENSO Revolution Plan “Reborn21.” In the two-year period leading up to March 31, 2022, we have sought to transform ourselves into a company with even higher value so that DENSO is poised to cut a fresh start. Specific successes of our initiatives can be found below.

### Quality

**Goal**

Taking a humble approach toward thoroughly reinforcing the three pillars that form the basis of our recommitment to quality

**Successes and Initiative Examples**

- Complete measures, ensure improvements in quality, and recover trust from customers

**Evaluation**

- Reinforce our fundamental technologies
  - Establishment of development and quality assurance systems for individual fundamental technologies to make steady progress in the development of new fundamental technologies
- Create excellent working environments that ensure open communication
  - Cultivation of a culture in which quality nonconformities and issues are quickly communicated to relevant parties to facilitate swift responses
  - Enforcement of well-grounded action directed by division leadership through quality control teams

**Adopt a humble stance**

- Fostering of recognition of compliance as a fundamental principle and of related culture
- Reduction of error in growing volume of software development processes through digital transformation

### Strategy

**Goal**

Formulate long-term scenarios for maximizing environmental performance and peace of mind, move forward with development of concrete technologies, and advance product deployment plans

**Successes and Initiative Examples**

- Commencement of annual tracking of key performance indicators related to business continuity and CO2 emissions (mobility products)
- Formulation of CO2 emissions reduction plan leading up to 2025 and establishment of renewable energy and credit acquisition policies (Monozukuri)
- Examination of potential alliances with multiple companies and industries to advance commercialization of initiatives (energy use)

**Evaluation**

- Promote the Global Safety Package 3 (GSP3) sales, expansion of post-installation products, and planning of next-generation products and related business strategies (safety)
- Swift launch of various in-vehicle air purifiers (comfort)
- Acquisition of multiple orders centered on solutions that respond to customer needs (support for working people)

### Business practices

**Goal**

Transform employee awareness and work processes to promote adherence to proper work processes founded on digital technologies and Core & Customization Strategy* at all workplaces

**Successes and Initiative Examples**

- Development of business portfolio strategy for achieving growth based on both “green” and “peace of mind” principles and Core & Customization Strategy
- Improvement of quality control and sales promotion efficiency for growth field products based on Core & Customization Strategy
- Commencement of de-emphasis and discontinuation of designated products** with fulfillment of supply obligations to customers as top priority

**Digitalization**

- Promotion of accurate communications based on data and cultivation of culture of utilizing digital technologies to facilitate proper work processes
- Unification of unconnected company data and automation and mechanization of processes previously performed by hand
- Construction of a groundwork for adopting higher value processes through digitalization and process reforms

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* Strategy of planning standard (core) specifications that benefit all customers and customizable specifications for matching specific customer needs to swiftly supply
** Businesses and products designated for de-emphasis or discontinuance (including through business transfer) based on business portfolio strategies

### Message from an Executive Vice President

**Creation of New Value Based on Principles of “Green” and “Peace of Mind”**

The founding spirit of “provide quality products and services” forms the basis for DENSO’s quality philosophy. Despite the commitment to quality that this indicates, a major quality-related issue occurred as a result of our prioritizing quantitative indicators like sales and profit. Recommitting ourselves to quality, we enacted the DENSO Revolution Plan “Reborn21,” based on which we are reforming our awareness and behavior in line with DENSO’s principles of “green” and “peace of mind.” Through this plan, we are dedicated to achieving results that are apparent in the defined indicators by thoroughly examining our philosophy and approach toward quality, incorporating initiatives for addressing social issues into our strategies while achieving business sustainability, and popularizing DENSO’s products and services.

Specific benefits of our activities in this regard include the start of business portfolio reorganizations based on our philosophy and the entrenchment of comprehensive planning for defining conditions for customers and practices using the latest digital tools to improve quality. These advancements were achieved through a concerted effort to reframe our corporate culture. As a result, we have seen improvements in the quality of delivered and on-market products, which has led to our receiving quality awards from companies around the world. In terms of finances, these improvements have lowered our break-even point.

When it comes to creating value that inspires customers and society, nothing is more important than our people. I therefore hope to contribute to companies and society by making sure that DENSO is always a company at which employees can use their time to help shape a more exciting future for society and utilize their innovative ideas and refined sensibilities.
The Company’s employee surveys are used as a means of guiding changes seen in awareness among employees as a result of initiatives under “Reborn21.” The 2022 survey revealed a change in employee behavior with regard to quality awareness along with a progressive individual-level shift toward work attitudes that are more conducive to transforming DENSO into a company with even higher value.

Raising of Employee Awareness
The Company’s employee surveys are used as a means of guiding changes seen in awareness among employees as a result of initiatives under “Reborn21.” The 2022 survey revealed a change in employee behavior with regard to quality awareness along with a progressive individual-level shift toward work attitudes that are more conducive to transforming DENSO into a company with even higher value.

Examples of Global Initiatives

Promoting the Bok Noi Dai Mai (Let Me Hear Your Voice) Project—Collecting Over 80,000 Proposals for Improvements
Our Thai manufacturing base, SIAM DENSO MANUFACTURING CO., LTD. (SDM), our largest manufacturing base in the United States, launched the Reborn21 Project Team, which promotes activities focusing on (1) reestablishing quality foundation, (2) implementing swift factory reforms, and (3) promoting DX and organizational integration. With regard to quality, the Reborn21 Project Team created open working environments that incorporate real associates’ voices and feedback. In addition, the team enacted rigorous countermeasures to prevent defective products from reaching the customer. For factory reforms, the team was able to launch 35 new production lines for CASE products over a three-year period through the swift reorganization of SDM’s production structure. In terms of the integration of DX and organizations, the team integrated the organizations of individual business units and factories into one Companywide organization and reduced duplicate functions and repetitive work processes through the expansion of DX. As a result of the Reborn21 Project Team’s activities, which brought together all SDM associates, SDM was able to improve competitiveness through fixed cost reduction and a break-even point of 2.7%. Through the promotion of Reborn21, SDM was able to restart itself as a North American hub for CASE that can respond to the needs of customers and society and pursue the ideas of “green” and “peace of mind.”

Business Portfolio Transformation for Realizing Principles of Green and Peace of Mind

Optimization of Business Portfolio
In fiscal 2022, DMTN began conducting business portfolio optimization initiatives for maximizing the value of “green” and “peace of mind.” As one facet of these initiatives, we have been concentrating management resource allocations more on fields that contribute to earnings and to the exercise of management philosophy in order to better focus on the use of internal resources. As a result, some businesses have been designated for de-emphasis or discontinuation. However, we also recognize that we have a responsibility to supply our customers, and it is therefore important to take a multifaceted approach toward examining how best to de-emphasize or discontinue designated businesses.

Transfer of Type III Alternator Business

A step ahead of Companywide reforms, the Electric Components Business Unit, which is closely impacted by the electrification trend, decided to transfer its Type III alternator business to DENSO Manufacturing Tennessee, Inc. (DMTN), our largest manufacturing base in the United States, as our strategy toward the electrification trend. The new business will be named the Electric Components Business Unit, which will be heavily impacted by the electrification trend, and will thus be moved to DMTN. The decision to transfer these operations was made to address supply inconsistencies stemming from equipment aging and to strengthen our stance toward electrification. These operations were transferred to Chengdu Huachuan Electric Parts Co., Ltd., a partner with promising growth prospects, to ensure the positive investment in automation equipment. We have judged that this partner is capable of carrying on DMTN’s quality and service traditions and thereby contributing to customers.

Process of Business Transfer

A major factor behind the decision to transfer the Type III alternator business was the idea that it would be beneficial for customers, Chengdu Huachuan Electric Parts, suppliers, and DENSO. However, those benefits hinge on the ability to supply customers with Type III alternators of the same high quality that they expect. When DMTN transfers production operations, it is standard for the Company to dispatch employees to the site of the transfer in order to confirm the new production operations first hand. Examinations of the possibility of transferring this business came into full swing around the time of the COVID-19 pandemic. Chengdu Huachuan Electric Parts has a different corporate culture, not to mention operates in a different language, than DENSO. We therefore arranged more than 100 online meetings with this company, using diagrams, photographs, and videos to explain DENSO’s quality traditions and ensure that they could supply customers with products of equivalent quality. During this process, we emphasized the importance of gaining the understanding of Chengdu Huachuan Electric Parts based on their perspective. The ordering process of communication, designed to translate our experience and insights into words and explain the reasoning behind our designs, processes, and inspections, finally came to fruition in January 2022, when we were able to conclude a contract with Chengdu Huachuan Electric Parts for the transfer of one of our businesses. In the fact, the Type III alternator business was our first successful business transfer, and we are dedicated to building upon this success to accelerate Companywide business portfolio optimization efforts.

Message from an Employee

Conveyance of DENSO’s Commitment to Quality
This unprecedented business transfer was undertaken by a team of both new and veteran employees. We were thus able to utilize the proactive efforts of new employees as well as the experience, insight, and personal connections that veteran employees possess in the areas of design, production technologies, and quality assurance. Moreover, the team was rather small, allowing for swift decision-making.

After the transfer, the Type III alternators ceased to be DENSO brand products, but customers continued to use them nonetheless. This project was advanced with a sense of dedication to fulfilling our responsibilities toward the customers that have continued to trust DENSO over the years. Ensuring that this undertaking was beneficial to customers, Chengdu Huachuan Electric Parts, suppliers, and DENSO was no easy task, but I am confident that our efforts will contribute to the development of customers and of Chengdu Huachuan Electric Parts while also providing a good example to be followed by the people who are in charge of DENSO’s next business transfer.
### Mid-term Policy for 2025

After implementing various strategies and rebuilding our corporate foundation through efforts such as “Reborn21,” we find ourselves at a new starting line. From fiscal 2023, we will aim to become a company that is indispensable to society while cherishing the DENSO Culture that we have cultivated since our founding. To that end, we will strive to resolve social issues by creating value that is uniquely DENSO and in turn realizing business growth. To serve as a guideline for our 170,000 employees to achieve these aims, we have established the new Mid-term Policy for 2025.

#### Prerequisites for Realizing the Goals of the Mid-term Policy for 2025

We aim to continue to be an organization of people who can think and act in an independent and self-reliant manner. Accordingly, we are prioritizing investment in human resources and strongly promoting Hitozukuri, which nurtures professionals with the ability to turn ideas into reality, and diversity and inclusion. Through such efforts we are working to establish a vibrant organization that is able to flexibly adapt to change.

### Five Pillars of Global Management

**1. Establish a Solid, Unshakable Business Foundation**

- **Establish a sound safety and quality foundation that meets the expectations of society and earns the trust of our customers**
- **Fulfill social responsibility by enhancing and implementing risk management initiatives so that we are able to immediately respond to changes in the external environment**
- **Establish a robust earnings structure by promoting reforms to our business portfolio**

**2. Transform Workstyles through Digitalization with the Aim of Realizing World-First and World-Best Offerings**

- **Swifdy provide our stakeholders with the best possible value and experiences by maximizing our performance through the Core & Customization Strategy and data utilization**
- **Pursue competitive reorganization of production structure, implement digital-twin technologies, and promote automation, thereby transforming the landscape of our plants around the globe**

**3. Transform Business Structure by Achieving Growth and Promoting De-emphasis and Discontinuation in Collaboration with the Industry and Our Business Partners**

- **Rebuild core businesses and transition business portfolio toward BEV products**
- **Accelerate efforts to de-emphasize and discontinue internal combustion technology and commercialize new energy businesses, thereby contributing to the realization of the DENSO Philosophy (carbon neutrality)**
- **Promptly establish a structure for electrification that enables a flexible response to diversifying customers’ needs and real-ize steady sales expansion and growth**
- **Fully strengthen electronic and software technologies in an effort to contribute to the ideals of green and peace of mind and real business growth**

**4. Lead the Industry in Becoming Carbon Neutral**

- **Transition to globally competitive, carbon-neutral plants through the utilization of innovative energy-saving technologies**
- **Realize stable long-term procurement of renewable energy at a low cost**
- **Develop energy businesses together with robust business partners**

**5. Achieve Business Growth through the Provision of Products and Solutions in New Fields**

Main Initiatives to Realize This Goal

<table>
<thead>
<tr>
<th>Aim</th>
<th>Carbon neutral by 2035</th>
<th>Mobility products</th>
<th>Energy use</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Carbon neutral with the use of carbon credits</strong></td>
<td>Products: 50% reduction in CO₂ emissions compared with fiscal 2021</td>
<td>Energy use: 50% reduction in CO₂ emissions compared with fiscal 2021</td>
<td>Base value: CO₂ emissions from mobility products in fiscal 2021</td>
</tr>
<tr>
<td><strong>Carbon neutral without the use of carbon credits</strong></td>
<td>Carbon neutral without the use of carbon credits by 2035</td>
<td>Carbon neutral with the use of carbon credits by 2025</td>
<td></td>
</tr>
</tbody>
</table>

*Air Quality Index (AQI): An index that determines air quality levels based on six atmospheric pollutants with the aim of curtailing harmful substances in the air*

### Important Milestones for Realizing Our Aims (Fiscal 2026)

- **ROE: 10% or higher**
- **Operating margin: 10%**
- **Revenue ¥6.7 trillion**
- **Revenue in the electrification domain ¥1 trillion**
- **Revenue in the ADAS domain ¥500.0 billion**
Strategies for “Green” and “Peace of Mind”

With the aim of contributing to the happiness of people, DENSO has been working to maximize the value it provides through its business activities in the fields of “green” and “peace of mind.” To that end, we have established medium- to long-term targets to accelerate the maximization of value in these fields and are promoting the following specific initiatives in order to achieve these targets.

Aiming to Become Carbon Neutral by 2035
We aim to realize carbon neutrality within our production activities in the not-too-distant future of 2035 by further promoting the environmental efforts in which we have engaged thus far. To make this ambition a reality, we are pursing efforts in the three fields of “Monozukuri (Manufacturing),” “mobility products,” and “energy use,” while making use of the Green Innovation Fund and other frameworks.

Monozukuri (Manufacturing)
Aim: Realize complete carbon neutrality at our plants
We will reduce CO₂ emissions by utilizing renewable energy such as solar power and enhancing the efficiency of our manufacturing process. In addition, we aim to realize complete carbon neutrality at our plants, without the use of carbon credits, by capturing the CO₂ emitted in the production process and reusing it as energy.

<table>
<thead>
<tr>
<th>Specific Initiative</th>
<th>Target for 2035</th>
</tr>
</thead>
<tbody>
<tr>
<td>- At our plants, responsibly engage in energy-saving activities and promote the use of renewable energy by promoting in-house power generation through reforms to our production and supply structure.</td>
<td>- Achievement of complete carbon neutrality at all plants</td>
</tr>
<tr>
<td>- Seek to achieve carbon neutrality in 2035 by offsetting the CO₂ emitted from electricity-derived energy through the procurement of renewable energy and offsetting the CO₂ emitted from gas-derived energy through the use of carbon credits.</td>
<td>- Current level of achievement</td>
</tr>
<tr>
<td>- Realize carbon neutrality at our plants by 2035 and work to expand and support activities geared toward carbon neutrality throughout the supply chain.</td>
<td>- CO₂ from plants: 1.91 million tons (15% reduction globally compared with fiscal 2021)</td>
</tr>
<tr>
<td>* Adjusted to pre-pandemic levels</td>
<td>* *Adjusted to pre-pandemic levels</td>
</tr>
</tbody>
</table>

Mobility Products
Aim: Contribute to the electrification of cars to reduce CO₂ emissions to the greatest extent possible
We will help popularize HEVs, BEVs, FCEVs, and other electrified vehicles (xEVs) by advancing products powered by electricity. In addition, we will apply the electrification technologies cultivated in the automotive industry to the field of air mobility in an effort to significantly reduce CO₂ emissions in all facets of mobility.

<table>
<thead>
<tr>
<th>Specific Initiative</th>
<th>Target for 2035</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Centered on driving systems and thermal control technologies, promote flagship technologies development in all facets of mobility, from HEVs, BEVs, and FCEVs to all-electric vertical take-off and landing aircraft, thereby realizing energy management that connects cars and other forms of mobility with society.</td>
<td>- Revenue from electrification domain ¥1 trillion</td>
</tr>
<tr>
<td>- Apply electrification technologies to the new field of air mobility. At the same time, return the high-output, high-efficiency, and lightweight equipment acquired through this effort to the automotive industry.</td>
<td>- Current level of achievement</td>
</tr>
</tbody>
</table>

Energy Use
Aim: Realize an energy-recycling society through the development and popularization of technologies that make effective use of renewable energy
We will establish technologies that store and reuse energy in a highly efficient manner, regardless of location or time, and work to popularize them on a global basis. By doing so, we will help realize an energy-recycling society.

<table>
<thead>
<tr>
<th>Specific Initiative</th>
<th>Target for 2035</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Develop and commercialize batteries that store fluctuating or excess renewable electricity, hydrogen manufacturing technologies, and fuel conversion technologies. Make full use of renewable energy and further contribute to its expanded introduction.</td>
<td>- Revenue from commercialization of renewable energy ¥100.0 billion</td>
</tr>
<tr>
<td>- Realize technologies that can reuse energy by capturing CO₂ emitted from industry and CO₂ in the atmosphere at the necessary locations, then supplying said CO₂ and converting it into resources, thereby reducing CO₂ emissions in society as a whole.</td>
<td>- Current level of achievement</td>
</tr>
</tbody>
</table>
Main Results of Our Strategies Related to Green and Peace of Mind in Fiscal 2022 and Beyond

Since our founding, we have been working to maximize the value of green and peace of mind, and efforts to do so have been further accelerated under “Reborn2.” In this section, we look back on the steady results we achieved with our initiatives over the course of fiscal 2022.

**2021**

**Green**

- **Monozukuri**: Commencement of Verification Test for CO2 Circulation Plant
  - With the aim of achieving net-zero emissions from our plants, we commenced verification tests for a CO2 circulation plant, which is a facility designed to capture and recycle CO2.

- **Safety Products**: Alliance with Honeywell
  - Together with Honeywell International Inc., we are promoting the development of electric propulsion systems for aircraft. Through this joint development, we will work to apply DENSO’s electrification technologies in the field of air mobility.

- **Mobility Products**: Bolstering of Production Structure for Products Powered by Electricity
  - We started to manufacture inverters in 2005, and since then, our inverters have been praised by our customers for their quality, stability, and high level of performance. As of December 2021, we have produced a cumulative total of 20 million inverters on a global scale. To further promote the global shift to electrification in the future, we are working to bolster our production structure for inverters in Japan, China, and North America. Going forward, we will establish manufacturing lines in such regions as Europe and India with the aim of producing 12 million inverters a year starting from 2025.

- **Monozukuri**: Receipt of Energy Conservation Grand Prix Award for 12 Consecutive Years
  - We received the Energy Conservation Center Chairman’s Prize in the Examples of Energy Conservation Division of the Energy Conservation Certification, Japan (ECC-J’s) Award Program, in recognition of our efforts to reduce the amount of steam used to heat pure water for the cleaning of semiconductors through the reuse of plant waste heat.

**Mobility Products**

- **Development of the Compact Mobile Refrigerator D-mobic**: Together with Yamauchi Transport Co., Ltd., we have developed a compact, lightweight, and portable refrigerator. D-mobic is able to flexibly respond to various transport needs and helps improve the fuel performance and reduce the CO2 emissions of delivery vehicles.

- **Development of Products for the Advanced Driving Assistance System**: We have developed safety products that realize advanced driver assistance features, which help give passengers peace of mind and enhance the safety performance of vehicles. These products have been adopted in the all-new Toyota MIRAI.

- **Development of Products for the Advanced In-Vehicle Environment**: Together with Yamaha Transport Co., Ltd., we have developed D-mobico, a compact, lightweight, and portable refrigerator. D-mobic is able to flexibly respond to various transport needs and helps improve the fuel performance and reduce the CO2 emissions of delivery vehicles.

- **Development of Products for the Advanced In-Vehicle Environment**: Together with Yamaha Transport Co., Ltd., we have developed D-mobic, a compact, lightweight, and portable refrigerator. D-mobic is able to flexibly respond to various transport needs and helps improve the fuel performance and reduce the CO2 emissions of delivery vehicles.

**Peace of Mind**

- **Creation of Comfortable Spaces**: Development of Puromie Air Purifier That Realizes Safe In-Vehicle Environment
  - Our newly developed air purifier Puromie eliminates viruses in the air environment and visualizes air purity status through an air quality monitor and a high-performance filter, and a monitor that measures air purity. In this way, Puromie offers passengers peace of mind with regard to in-vehicle air quality.

- **Support for Working People**: Development of the Compact Mobile Refrigerator D-mobic
  - Together with Yamauchi Transport Co., Ltd., we have developed D-mobic, a compact, lightweight, and portable refrigerator. D-mobic is able to flexibly respond to various transport needs and helps improve the fuel performance and reduce the CO2 emissions of delivery vehicles.

- **Elimination of Fatalities from Traffic Accidents**: Promotion of DX in the Healthcare Industry
  - We have developed Global Safety Package 3, which is used and of realizing a compact safety product that can be offered at a low price.

**Support for Working People**

- **Elimination of Fatalities from Traffic Accidents**: Adoption of DENSO Electrification Components in the Toyota bZ4X and Other Vehicles
  - We have developed new products that help enhance the practicality of EVs in such ways as increasing driving distance, shortening charging time, and extending battery life. These new products have been adopted in the Toyota bZ4X and other vehicles.

**Reduction of Emissions**

- **Development of the Global Safety Package 3 Product for Accident Prevention and Safety Systems**: We have developed Global Safety Package 3 (GPS3), which improves the safety of vehicles by giving them high-sensing capability of their surroundings. We developed this product with the aim of expanding the settings in which accident prevention and driver assistance systems are used and of realizing a compact safety product that can be offered at a low price.

**Support for Working People**

- **Support for Working People**: Promotion of DX in the Healthcare Industry
  - With the aim of improving the quality of medical treatment, By utilizing OPeLiNK®, a platform developed by DENSO to integrate information from surgery equipment, we are participating in a platform business that promotes the digital transformation (DX) of medical education and hospital operations.

**Selection as a Green Innovation Fund Project**

Among the technologies we are developing to realize carbon neutrality, technologies being developed under the themes of “motor systems for mobility,” “CO2 separation and capture,” and “next-generation power semiconductors” have been selected as Green Innovation Fund projects.

**Agreement on the Transfer of DENSO’s Fuel Pump Module Business to Asian**

DENSO has agreed to transfer its fuel pump module business to Asian Industry Co., Ltd., with a view to enhancing the competitiveness of both companies in the powertrain domain.

**Transfer of Type III Alternator Business to Chengdu Huachuan Electric Parts**

By transferring the type III alternator business to Chengdu Huachuan Electric Parts Co., Ltd., we aim to continue to fulfill our responsibility of supplying our customers. At the same time, we will promote the reshuffling of our business portfolio through collaboration with our business partners.

**Investment in Semiconductor Manufacturer JASM**

We have acquired a minority stake in Japan Advanced Semiconductor Manufacturing, Inc. (JASM), which handles the manufacture of semiconductors. Through this acquisition, we aim to realize the stable procurement of in-vehicle semiconductor components over the medium to long term.
Promotion of a Business Model That Contributes to the Carbon Neutrality of Automobiles, Industry, and Society at Large

Amid the rising interest in environmental issues, DENSO is working to not only help create eco-friendly automobiles but also go beyond the framework of automobiles to realize carbon neutrality in the manufacturing industry and in society as a whole, in collaboration with its various partners in the industry. To that end, we need to adopt a bird’s-eye view of energy use in individual automobiles, in the industry, and in society at large and implement energy management practices to ensure such energy is used efficiently. We will therefore aim to create businesses that realize carbon neutrality across society by applying, in a greater social context, the automotive and industrial technologies that we have cultivated since our founding.

Development of Global Safety Package 3 to Further Advance and Popularize Safety Products

To realize a society without fatalities from traffic accidents, which we adopted as part of our strategies related to peace of mind, we need to further advance safety products and equip vehicles with cutting-edge safety technologies. We also need to develop products that are attractive in terms of price so that we can realize the practical application of safety products in an even greater number of vehicles.

Global Safety Package 3 (GSP3) was developed with the aim of expanding the settings in which accident prevention and driver assistance systems are used and of realizing a compact safety product that can be offered at a low price.

Enhancement of Vehicle Performance

Our Global Safety Package (GSP) combines information from a millimeter-wave radar sensor, which detects the shape of objects on the road, such as vehicles and guardrails, using radio waves, with information from a vision sensor, which uses a camera to detect the environment ahead of the vehicle, in an optimized manner. By doing so, these systems enable safer driver assistance. The newly developed GSP3 represents the third generation of the GSP series.

The vision sensor used in GSP3 adopts a wide-angle lens and a high-resolution imager. This doubles the area that the sensor is able to detect while maintaining the product size and price through circuit optimization. Additionally, the vision sensor makes use of new awareness logic that enables it to achieve such features as detecting additional objects and recognizing direction.

The millimeter-wave radar sensor makes use of a simple product design, which helps reduce numerous components to one-fifth of the size of conventional components and doubles the range of detection (oncoming traffic), thereby reducing the overall size of the radar sensor by 43%. Furthermore, the millimeter-wave radar sensor has improved the product’s functionality, allowing it to separate two objects and detect them individually based on their difference in speed and thereby enhancing the detection performance to a level where the radar sensor is able to distinguish between pedestrians and bicycles.

As a result of this improved functionality, GSP3 is able to respond to potential accident scenarios, such as errantly turning left or right at intersections or colliding with oncoming traffic, that conventional safety products cannot.

In fact, GSP3 is now able to cover approximately 70% of accident scenarios, as opposed to the roughly 40% covered by the previous GSP.

Efforts as a Comprehensive Systems Supplier

As a comprehensive systems supplier that handles everything from hardware to software, we gather together experts in each field of systems we handle to identify issues from their respective perspectives and examine measures to resolve such issues. Through this approach, we were able to successfully develop GSP3.

Going forward, we will promote technological development pertaining to advanced driver support so that we can realize mobility that is safe and free for all people, starting with drivers and pedestrians.

Message from an Employee

Aiming for the Ambitious Target of Eliminating Fatalities from Traffic Accidents

Without the cooperation of relevant parties, including our customers and suppliers, we could not have realized the development of GSP3 on our own. Thanks to the results of all relevant parties working as one team, a vehicle of one of our customers equipped with GSP3 won the five-star rating in the latest Euro NCAP safety testing. This rating demonstrates GSP3’s high level of technological capabilities.

We will continue to take on the challenge of developing cutting-edge technologies with the aim of delivering an even more comfortable mobility society to our customers around the world and of eliminating fatalities from traffic accidents.

DENSO Integrated Report 2022
Growth Strategy
Financial Capital

Outline of Efforts to Strengthen Financial Capital
In fiscal 2022, DENSO will implement management with an awareness of capital costs as it works to create corporate value under a renewed financial strategy. Under this new strategy, DENSO targets ROE of 10% or higher by fiscal 2026 with a view to expanding its equity spread (ROE – Cost of shareholders’ equity) over the medium to long term. To that end, DENSO will pursue the following four initiatives for creating corporate value: (1) reinforce profit structure, (2) reduce low-profit assets, (3) improve capital structure, and (4) engage in dialogue with markets.

Characteristics of DENSO’s Financial Capital [Fiscal 2022 results]

<table>
<thead>
<tr>
<th>Equity ratio attributable to owners of the parent company</th>
<th>Dividend on equity (DOE)</th>
<th>Weighted average cost of capital (WACC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>57.8%</td>
<td>3.1%</td>
<td>6.2%</td>
</tr>
</tbody>
</table>

KPI Targets for Fiscal 2026
(1) Reinforce profit structure
   - ROE: 10% or higher
   - Operating margin: 10%
   - R&D expenditure: ¥450.0 billion
   - Capital expenditures: ¥350.0 billion

(2) Reduce low-profit assets
   - Cash on hand compared with monthly turnover: 1.0 month
   - Further reduction of cross-shareholdings

(3) Improve capital structure
   - Shareholders’ equity ratio: 50% or more
   - DOE: 3.0% or more
   - Flexible acquisition of treasury stock

Initiatives for Creating Corporate Value
1. Reinforce profit structure: Improve ROIC
2. Reduce low-profit assets: Reduce cash on hand and cross-shareholdings
3. Improve capital structure: Leverage loans, diversify fund procurement, renew policy for shareholder returns
4. Engage in dialogue with markets

Foundation for Creating New Value

57 Financial Capital
58 Message from the Chief Financial Officer
65 Human Capital
67 Message from the Chief Human Resources Officer
68 Manufacturing Capital
69 Message from the Chief Monozukuri Officer
70 Intellectual Capital
71 Message from the Chief Technology Officer
72 Natural Capital
77 Social and Relationship Capital
Message from the Chief Financial Officer
Enhancing Our Ability to Continuously Create Corporate Value through Successful Implementation of Financial Strategies

Yasushi Matsui
Chief Financial Officer (CFO)
Member of the Board of Directors, Senior Executive Officer

Pursuit of Growth and Corporate Value Creation

In fiscal 2022, consolidated revenue rose 11.7% year on year to a new record high of ¥5,531.5 billion, and operating profit was up 120.0%, to ¥342.1 billion. Factors behind this strong performance included the recovery of sales from the impacts of the COVID-19 pandemic, the benefits of sales promotions for electric and ADAS products, and profit improvement achievements through efforts to reform our profit structure advanced under “R2bom2.” These factors outweighed the detractions from adverse operating environment trends including a drop in automobile production in the wake of global semiconductor shortages and higher prices for electronic and other components, logistics, materials, and energy.

We expect to continue to face a challenging operating environment in fiscal 2023 in the midst of semiconductor shortages and inflation. Regardless of these challenges, we will operate our business in a lean and flexible manner. This will be accomplished by continuing to develop and promote appealing products while seeking to improve profitability through the enhancement of the robust corporate constitution fostered under R2bom2. Further measure to this end will be to bolster our responsiveness to changes in the operating environment, which I will talk about a little later on.

Moreover, DENSO has set the new Mid-term Policy for 2025, which defines goals to be accomplished by fiscal 2026. This policy clarifies our intent to take on an extensive reorganization of our business portfolio. Through this reorganization, we will seek to solidify earnings foundations in order to achieve return on equity (ROE) of 10% or higher and an operating margin of 10% in fiscal 2026. To accomplish these targets, we launched a new financial strategy in fiscal 2022 that emphasizes managing capital costs to maximize ROE through corporate value creation (the creation and expansion of genuine equity spread). In fiscal 2022, ROE was 6.4%, up 3 percentage points year on year. As of July 21, 2022, we expect this figure to rise to 8.6% in fiscal 2023, an amount that will surpass the value of shareholders’ equity. We believe the company’s financial management structure (1) reinforce profit structure, (2) reduce low-profit assets, (3) improve capital structure, and (4) engage in dialogue with markets in order to ensure we achieve the targets of the Mid-term Policy for 2025. I would now like to explain some of the concrete initiatives we are implementing toward this end and the progress of these initiatives.

1. Reinforce Profit Structure—Acceleration of Business Operation Focusing on Expansion and Reinforcement through Entrenchment of ROIC-Minded Management

(1) ROIC-Minded Management for Heightening Corporate Value

A. Start of ROIC-Minded Management

DENSO has introduced ROIC among the key performance indicators (KPIs) for which it has set targets alongside prior financial KPIs like revenue and operating profit. This move was made to accommodate a shift toward management emphasizing capital cost and corporate value under the new financial strategy launched in fiscal 2022 and to respond to changes in the operating environment and in the expectations of stakeholders.

The target for ROIC has been set at 10% or higher to facilitate the creation and expansion of genuine equity spread. Considerations for setting this target included the fact that the Company’s cost of shareholders’ equity is currently around 7% and that the minimum level expected by society, as indicated in documents like our Report 2.0, is 8%.

To expand genuine equity spread, we will be taking advantage of our leverage to accomplish objectives like improving our capital structures and creating new share- holder value policies. At the same time, however, we realize that there is a need to heighten the competitiveness of our business in a manner that is not overly dependant on leverage if we are to continue creating value. Based on this belief, we commenced a full-fledged management approach that is mindful of return on invested capital (ROIC) in fiscal 2022. With a focus on the return on invested capital (ROIC), we will aspire to make management decisions for expanding growth businesses, de-emphasizing mature businesses, and exploring new businesses to achieve continuous increases in corporate value.

B. Entrenchment of ROIC-Minded Management

At DENSO, ROIC is more than an executive KPI; it is a tool for promoting changes in the behavior of employees. We began rolling out an “ROIC tree” in fiscal 2022 that allows employees to clearly see the connection between management KPIs and their individual improvement activities. In addition, our in-house publications are regularly used to provide information, on a global basis, on the relationship between the improvement activities of individual employees and divisions and the enhancement of ROIC. Through these efforts, we are constantly working to foster awareness of ROIC.

In addition to such ongoing communication and awareness-raising activities by corporate divisions, we are also bolstering education for business planning departments and accelerating activities for conveying our ROIC-minded management via planning divisions through the formulation and implementation of ROIC improvement initiatives based on the characteristics of the given business. Furthermore, ROIC was introduced to complement operating improvements in corporate value, a restricted stock compensation plan was implemented in fiscal 2022. The additional of ROIC as an indicator for calculating compensation is expected to strengthen the commitment to short-term results of senior management and to heighten their desire to increase ROIC and create value.

In this manner, we are advancing activities targeting everyone, from regular employees to senior management, in order to further entrench the practice of truly ROIC-minded management for improving value.

(2) Business Portfolio Reorganization for Boosting Earnings and Exercising Philosophy

A. Pursuit of Sustainable Growth by Resolving Social Issues through Business

We view the “resolution of social issues through our business” as the bedrock of our management. With this as our foundation, we are pursuing our ultimate goal of “zero” in the fields of “green” and “peace of mind,” by which we mean zero CO2 emissions and zero fatalities from traffic accidents. Through our pursuit of this goal, we hope to inspire our stakeholders and thereby achieve ongoing improvements to our competitiveness. In the current uncer- tain operating environment, DENSO will reorganize its portfolio to facilitate efforts to exercise its philosophy, accelerate its growth, and boost profitability in terms of ROIC. This is the approach we will take to continuously grow our value by protecting the environment, contributing to peace of mind, and inspiring stakeholders.

B. Growth in the Electrification and Advanced Safety Areas of the CASE Domain

In the CASE domain (connected driving, autonomous driving, sharing, and electrification), DENSO prides itself on its role in and capacity for shaping the industry. We are partic- ularly capable when it comes to the areas of electrification and advanced safety.

The global trend toward electrification is accelerating amid rising environmental awareness. DENSO built development and production systems in this area ahead of its com- petitors, and these systems have supported our progress in selling our products to overseas and other customers. In fiscal 2023, our all-wheel-inverter-equipped drive module was adopted, for the first time, for use in a customer’s product through Blu: Nexus Corporation. This development allowed us to achieve an aggregate total of 20 million units shipped to our customers.

As for the field of advanced safety, we commenced mass production of Global Safety Package 3 in fiscal 2022 amid the rising needs for safety and peace of mind in mobility. This trend is evident among the growing social issues pertaining to increases in the number of accidents by senior citizens and ever more serious traffic congestion in urban areas.

Note: The graph represents our forecast as of July 29, 2022.
Global Safety Package is equipped with state-of-the-art technologies that contribute to “peace of mind” value by helping realize freedom in mobility with zero traffic accident fatalities through an increasing range of applicability to accidents. In addition, this product helps make equipment smaller and reduce costs, thereby contributing to profits by supporting business growth and increases in earnings power. Going forward, we will continue to pursue growth in these fields in order to maximize the value we provide in line with the principles of green and peace of mind.

C. Strategy Positioning Semiconductors as Key Growth Drivers

A sharp increase in semiconductor demand has been seen in recent years, resulting in supply instability. However, this situation has not changed the fact that semiconductors are key devices to the automotive industry, meaning that the evolution of semiconductors technologies and the reliability of semiconductor supplies will be imperative to the popularization of vehicles that contribute to green and peace of mind value. For this reason, DENSO is bolstering areas in the chain spanning from advanced technology development through to production systems that are easily overlooked, with a goal of contributing to the entire industry.

The development of advanced technologies in this area is being spearheaded by R&D subsidiary MIRISE Technologies Corporation. For production and supply, we have partnered with United Semiconductor Japan Co., Ltd., to develop a system capable of high-performance, high-efficiency production of Japan’s first 300-mm-wafer power semiconductors. In addition, we commenced investment in Japan Advanced Semiconductor Manufacturing Company, Ltd., to construct a system for the stable supply of these devices. DENSO has continued to make contributions to the environmental performance of automobiles with its semiconductor technologies, as seen in the use of its power module equipped with a next-generation SiC device in the Toyota Mirai. Together with our partners, we are committed to the ongoing reinforcement of development, mass production, and other systems.

D. De-Emphasis and Discontinuation of Businesses

The reorganization of our business portfolio will require us to de-emphasize or discontinue certain businesses. When we think about the trust-based relationships we have built with customers thus far, it becomes easy to adopt a negative opinion of such undertakings, which can make it difficult for us to move forward.

However, it is important for us to take a forward-looking perspective toward the de-emphasis and discontinuation of businesses if we are to exercise our philosophy and achieve sustainable growth. For this reason, we began undertaking business transfers in fiscal 2022 with a sense of conviction while actively working to gain the understanding of customers.

For example, we reached an agreement to transfer our fuel pump business to Asian Industry Co., Ltd., in January 2022. Discussions with customers took place from the early stages of this business transfer to ensure that we did not betray the expectations of customers or of society through this move. Another such undertaking was the transfer of our type II alternating business to Chengdu Hauchuan Electric Parts Co., Ltd. in this manner; we are making steady progress in de-emphasizing and discontinuing businesses.

Moreover, in fiscal 2023, we transferred some of the products from businesses designated to be de-emphasized or discontinued to the Powertrain Systems Business Group, an organization that has been playing a central role in these activities. In addition to internal combustion engine products, the reorganization has allowed us to expedite decision-making and better gain customer understanding in relation to the discontinuation of businesses under the guidance of a single organization.

We are also taking a committed approach toward consolidating regional production subsidiaries to optimize production and supply systems from a medium- to long-term perspective, a part of the de-emphasis and discontinuation of businesses. This commitment drives us forward in restructuring activities.

Looking ahead, the reorganization of our business portfolio, including reorganizing subsidiaries and transferring and withdrawing from businesses through coordination with partners, will be advanced with decisive speed.

E. Creation of New Value

We are currently in a highly volatile operating environment that is presenting a plethora of new social issues. DENSO seeks to take preemptive action for contributing to the resolution of these social issues. To guide us in this undertaking, we have formulated theories regarding the social issues that will emerge in 2035 based on megatrends projected leading up to 2050. These theories are shaping our efforts to explore new businesses based on our desire to contribute to the resolution of such social issues through activities in our business domains and through the use of our core competencies.

In the past, we have applied the strengths fostered over our long history in the automotive business to non-automotive businesses, such as factory automation and AgTech, to expand our business domains. Continuing this trend, we launched businesses in new fields in fiscal 2023 to broaden the scope of areas in which we contribute beyond automobiles to include mobility, Monozukuri (manufacturing), and society.

One concrete example of our advancements in the new field of mobility can be seen in the adoption of a product that we jointly developed with U.S. aircraft manufacturer Honeywell International Inc. for use in the all-electric垂直 take-off and landing (eVTOL) aircraft of the German-based company Lilium GmbH. This decision was made in fiscal 2023. Electric aircraft are gaining attention as a new mobility option for addressing social issues related to urban traffic congestion and the related CO₂ emissions as well as for providing transportation venues in isolated areas. These vehicles are congruent with DENSO’s principles of “green” and “peace of mind.” Accordingly, we are accelerating development to assist in the production of electric aircraft for practical application.

Other initiatives include collaborating with partners to utilize the data acquired from DENSO drive recorders for use in the development of services that detect signs of dangers and help prevent accidents. We thereby look to provide a new form of peace of mind value.

In today’s volatile environment, it is important that we do not become complacent with simply improving existing businesses. Rather, we must promote ambidextrous strategies to contribute to the resolution of new social issues that arise. By expanding businesses in new mobility domains and businesses that utilize renewable energy, we will strive to achieve a portfolio that strikes a perfect balance between our management philosophy and profits.
In fiscal 2022, the Company issued its first U.S. dollar-denominated sustainability bonds. Through the issuance of sustainability bonds, from which the procured funds can only be used for development and investment projects in “green” and “peace of mind” fields, we hope to communi-
cate, on a global scale, the business activities founded on sustainability management that we have advanced since our founding and the successes of these activities. In this manner, we look to accelerate our initiatives for responding to environmental and social issues. The choice to denom-
inate these bonds in U.S. dollars was made to allow for funds to be procured in greater amounts from a wide vari-
ety of investors in the large overseas market. We have thereby succeeded in developing a stable funding platform that will enable us to invest in growth fields and new busi-
nesses and to take part in M&A activities and alliances. Further improvements to capital efficiency will be pursued going forward by utilizing currency-denominated corporate bonds and other types of borrowings while maint-
aining a high degree of financial health.

(2) Shareholder Return Policies
DENSO aims to issue stable shareholder returns that
 exceed cost of shareholders’ capital over the long term by increasing both dividends (income gain) and share price (capital gain).

For dividends, we have a basic policy of consistently growing dividend on equity (DOE). Dividends = Shareholders’ equity from the level of 3.0%. Accordingly, we increased dividend payments by ¥25 per share year on year in fiscal 2022, making for DOE of 3.1%. As for treasury stock acqui-
sition, we have acquired 12 million shares, or ¥56 billion, worth of treasury stock in fiscal 2022. The scale of this acquisition was determined by comparing our targeted cap-
ital structure and theoretical stock price with the reality based on our long-term business plan. Our new financial strategy calls on us to transition to new shareholder return strategies.

| Shareholders’ Equity / Shareholders’ Equity Ratio (Billions of yen) |
|-------------------------|-------------------------|-------------------------|-------------------------|
| 2022 | 2021 | 2020 | 2019 |
| Shareholders’ equity (left axis) | Shareholders’ equity ratio (right axis) |

Status of Long-term Credit Rating (as of Jul 13, 2022)

Rating company Credit rating

Rating and Investment Information, Inc. (R&I) AAA

S&P Global Ratings AA

Moody’s Investors Service, Inc. A1

A2
Human Capital

Outline of Efforts to Strengthen Human Capital
At DENSO, we believe that the ability of our employees and teams to turn ideas into reality is what enables us to deliver new social value and bring happiness to people and society as a whole. In fiscal 2022, we formulated and rolled out “PROGRESS, a vision and action plan for our people and our organization,” with the aim of becoming a “group of professionals with the ability to turn ideas into reality.” In addition, under the Mid-term Policy for 2025, we stated that the promotion of people and the organization is the prerequisite for us to realize the goals of the policy. As our business structure changes significantly and with the heightened social expectations of DENSO, we are pushing forward with efforts to build a diverse group of employees to envision their dreams and make them a reality while also striving to maintain and enhance their level of engagement with their work and the organization.

KPI Targets for Fiscal 2022
Rate of affirmative responses in employee engagement survey 78%  
Number of women in management positions 70%  
Business fields: 130  
Technical fields: 132

Examples of Initiatives under PROGRESS

Design: Career  
In-house job offer program, recurrent education programs on software

Development: Learn and grow  
Global leadership development programs

Drive Evaluation and treatment  
Evaluation system based on role and results

Diversity & Digital: Workstyles and culture  
Measures to enhance employee engagement

Business Portfolio Transition and Career Innovation
To realize the DENSO Philosophy of “Contributing to a better world by creating value together with a vision for the future,” we are working on an organization-wide basis to enhance the mobility of our thousands of personnel across focus areas, including promoting the job transition from internal combustion domain to electrification domains and the transition from hardware to software. At the same time, we are bolstering initiatives toward career innovation to ensure that each employee has the opportunity to make new things happen to make a better world.
Promoting the Active Role of Women

A high level of work engagement is needed for each employee to take on new challenges and continue to set new records for themselves, as it is necessary for each individual to first have a thorough understanding of the Company’s policies and then develop their career independently by envisioning what they wish to achieve and increasing their number of capabilities. Accordingly, to support employee development and independence, we are working to strengthen support measures such as improving career design and providing opportunities for career advancement.

Mid-career Hires

DENSO has been promoting mid-career hires in order to diversify the employee network and provide opportunities for employees to gain new skills. According to surveys conducted in fiscal 2022, the rate of affirmative responses was 70% (up four points over the previous fiscal year). From fiscal 2023, we will continue to strive to achieve and improve this rate as part of our management initiatives and reinforce efforts to realize improvement.

Message from the Chief Human Resources Officer

Enhancing Corporate Value by Promoting a Free and Open Corporate Culture and the DENSO Spirit

Kenichiro Itō
Chief Human Resources Officer (CHRO)
Member of the Board of Directors, Senior Executive Officer

Since its founding, DENSO has always promoted management that valued people. Management that values people helps improve the well-being of each employee and leads to the provision of new value that satisfies the customer. The first step in achieving such management is ensuring that employees can work in good health and with peace of mind. The next step is enabling employees to work with enthusiasm in an environment that facilitates good communication. In addition, it is also important to have each employee act on behalf of the customer and society and be able to express themselves freely.

Recently, we launched PROGRESS, a vision and action plan for our people and our organization, with a view to enhancing employee well-being. Under PROGRESS, we have declared our intention to reform various personnel systems so that we can become a group of professionals who take action and implement concrete measures to bring happiness to people and society and who are able to envision their dreams and make them a reality. In this integrated report, I have the privilege of reporting the essence of such initiatives.

The driving forces for realizing the goals of PROGRESS are a free and open corporate culture and the DENSO Spirit, which serves as a guideline for the actions of our employees. If we can embody the DENSO Spirit within a culture where there is little distance between employees and executives and supervisors and their subordinates and where employees can exchange their honest opinions based on respect for one another, then we can truly invigorate our people and our organization.
Manufacturing Capital

Outline of Efforts to Strengthen Manufacturing Capital

With a focus on the progression of the CASE revolution, DENSO is building a global production structure to enhance the satisfaction of customers in all areas of operation in terms of quality, cost, and delivery (QCD). At the same time, we are striving to reduce our environmental burden by conducting production activities with a commitment to world-leading environmental efficiency and high productivity. In these ways, we are working to evolve our manufacturing bases. Furthermore, as part of our efforts to establish DENSO-style digital-twin plants, we will strive to evolve our plants by combining our conventional strength of creativity, which is realized through the collective knowledge and efforts of our employees, and the strength of our scientific, logical analysis capabilities based on data, and leveraging them to a greater extent than ever before.

Global Production and Supply Structure

Guided by the basic principle of manufacturing products in close proximity to our customers, we have built a highly competitive production structure in North America, Europe, China, greater Asia (including India), and Japan. At our manufacturing bases around the world, we are aiming to achieve leading levels of QCD in each region and realize Monozukuri that can withstand change. In order to reinforce our business portfolio to accomplish the progression of CASE, realize carbon neutrality, and deliver products to our customers in a stable manner even while facing various supply risks, we are clarifying the role that each region and plant needs to play and striving to build a robust global production and supply structure that can leverage DENSO-style Monozukuri know-how and production assets across the global supply chain, including our suppliers.

Initiatives to Realize Carbon Neutrality in Our Monozukuri Activities

DENSO aims to realize carbon-neutral Monozukuri by 2035. To that end, DENSO established the In House Carbon Neutral Project Team in 2021, under which it will promote initiatives to conserve, create, and reuse energy in its Monozukuri activities. As an energy-saving issue, we are striving to visualize energy use through F-IoT and reduce the wasteful use of energy during production. In addition, we are developing eco-friendly facilities and manufacturing methods that help us conserve energy. We are also promoting the use of materials and manufacturing methods that do not require heat by considering the idea of carbon neutrality from the stage of product development. As part of our efforts to create energy, we have designated the Anjo Plant, Hirose Plant, Nishio Plant, and DENSO FUKUSHIMA CORPORATION as model plants at which we will commence a wide array of verification tests for creating, storing, and reusing energy within our Monozukuri activities. In these ways, we will steadily push forward with efforts to realize our goal of carbon neutrality.

DENSO-style Digital-twin Plants

To create even better products and production lines, we have worked to create a robust manufacturing foundation through Excellent Factory (EF) activities in which all employees participate on a daily basis. In the same manner as these EF activities, the DENSO-style digital-twin plants that we are currently promoting revolve around people in the leading role. With such plants, we are promoting further improvements led voluntarily by personnel on the front lines by weaving together the inspiration and creativity that occurs on-site with various data related to production. By doing so, we are working to evolve our on-site manufacturing operations on a daily basis. The data we accumulate through these efforts is not only put to use within our plants but also linked with data from the engineering chain for product, process, and equipment design and data from the supply chain, including data from materials and components suppliers and data from our customers. By linking such data, we are able to enhance the speed and flexibility throughout the process from development to production. Going forward, we will define the concept of digital twin plants through in-house verification tests with the aim of rolling out the concept across the DENSO Group and among our suppliers.

DENSO has pursued efforts toward Monozukuri with a focus on high levels of productivity and quality. However, the Monozukuri environment is now entering into a period of uncertainty the likes of which we have never seen before due to such trends as digital transformation (DX), carbon neutrality, labor shortages, and the need to respond to various risks. Through our DENSO-style digital-twin plants, we aim to deliver quality products to our customers at even greater speeds. We also aim to resolve social issues with a focus on a new generation of people who are digitally savvy. Typical digital-twin plants gather plant-related information using IoT and other digital technologies to recreate physical plants in virtual spaces with the aim of guiding and operating the plant based on optimized production data gained through simulations, without relying on the wisdom, intuition, and know-how of people. In contrast to this, our DENSO-style digital-twin plants focus on people playing the leading role. At our digital-twin plants, we aim to accomplish three major goals.

The first goal we aim to achieve is realizing plants that can flexibly respond to change and operate with outstanding lead times. At our digital-twin plants, we will compile all digital data related to the entire production process, from preparation for production to the implementation of mass production, on an information platform. In addition, we will make thorough use of information on similar production lines that have existed in the past and actual production performance data acquired via F-IoT. By doing so, we will be able to rapidly accelerate the speed at which we conduct such actions as launching new production lines and making changes to the production process.

The second goal is creating plants where employees can work creatively and with excitement. To that end, we will aim to work previously handled by people to robots, machines, and AI and encourage our employees to focus on the kind of added value that only humans can provide working with inspiration and creativity. Digital twin plants afford us the opportunity to use digital environments to experiment with aspects that we could not test easily in the real world due to safety and quality-related reasons. While borrowing the strength of digital technologies, we will work to create environments in which we can swiftly carry out a wide range of trial-and-error experiments. By doing so, we aim to create plants where millennials and Generation Z employees, who are digital natives and represent the core of society, can work creatively with excitement.

The third goal is realizing plants that connect us with our customers and suppliers and provide a sense of trust and peace of mind. Rather than having our plants simply be contained within DENSO, we will seek to link digital data from our plants with data from our customers and data across the supply chain, including that of our suppliers, so that we can respond to fluctuations in production, such as rapid increases or decreases, ensure quality and CO2 traceability, and restore plant operations swiftly and more accurately in the event risks such as natural disaster or plant fires occur.

In 2022, we will introduce testing environments at our headquarters based on the concept of realizing this kind of digital-twin plant. We will also conduct various development and verification activities with the aim of rolling out digital-twin plants on a Companywide basis from 2023 onward.
Intellectual Capital

Outline of Efforts to Strengthen Intellectual Capital

To continue to provide value to society in an era of dramatic change, starting with the progression of CASE, it is imperative that we understand the needs of our customers and take action to meet those needs. To that end, we are stepping up R&D efforts so that we can refine our strengths in mechanical parts, electronics, and software (which function as the body, nerves, and brain, respectively) and enhance our ability to combine such strengths in an optimized fashion. At the same time, to bolster development efficiency, we aim to increase our R&D expenditures to around the level of ¥450 billion in fiscal 2026.

In addition, implementing an IP strategy, in an integrated manner with our business strategy, is essential to securing a competitive edge. We will therefore support our business endeavors through the building of an IP portfolio primarily in focus fields and the strengthening of IP activities geared toward open innovation.

Software expenditures including portion of asset capitalization
¥497.6 billion (9.0%)

Characteristics of DENSO’s Intellectual Capital (as of fiscal year 2023)

Promoting IP Strategies with a Focus on the Progression of CASE

Added value for automobiles is beginning to shift toward the CASE domain. Under these circumstances, DENSO is promoting three main initiatives in order to win out against the competition, which now includes not only major players from the automotive industry but also ICT companies and start-ups. These initiatives include the following:

1. Establish a competitive edge both inside and outside the CASE domain by preparing technology and developing more than 1,000 software engineers by 2025.
2. Establish cross-domain partnerships and establish cross-specialty partnerships in other industries in collaboration/promotion of alliances and promote the external procurement of IP (prompt acquisition of the necessary GP). Guided by these three initiatives, we are realizing a sustainable business ecosystem through the utilization of IP and seeking to enhance our competitiveness and corporate value.

Initiatives to Strengthen Our IP Portfolio

For patent application and management of owned IP, we are working to increase the percentage of IP rights we possess in focus fields while at the same time striving to enhance the efficiency of de-emphasizing and discontinuing businesses. By doing so, we are actively re-shuffling our IP portfolio, which we place in a high position among our intellectual capital.

Also, to accelerate the value of the products we offer in the CASE domain, we are pursuing thorough industry-wide collaboration in terms of international standardization and rulemaking. To that end, we actively participate in activities to help establish necessary regulations and standards for the future automotive industry and are working proactively to promptly develop measures to comply with such regulations and standards. As part of these efforts, we are taking steps to identify technologies for which we should collaborate with other companies and technologies that we need to actively strive to achieve differentiation, and are applying for patents in accordance with the purpose of a technology’s utilization. By doing so, we are working to contribute to the automotive industry and realize IP and technology.

Furthermore, to increase the number of patents that can be utilized, from 2021, we have been implementing a system to implement technology transfers and re-shuffling our project portfolio, we are implementing swift, highly disciplined investment.

Refinancing R&D Activities

For more details, please see the briefing on our semiconductor/cos strategy. (https://www.denso-global.com/electronics/semi/index.html)

Denso’s semiconductor procurement strategy “Targeting 2025” has laid the foundation for us to establish an “IP” (Intellectual Property) strategy.

Under this strategy, we are working to promote the standardization of microcomputers and reduce discrepancies between the automotive and semiconductor industries with the goal of making our supply chain more resilient.

Strategy for Power and Analog Semiconductors Developing and Manufacturing In-House “Devices & Wafers” and “Manufacturing Processes” to Maximize System Competitiveness

Strengthening to develop tough semiconductors, we have been producing high-voltage power semiconductors and analog semiconductors for over half a century. For high-voltage power semiconductors, we have been working with strategic partners to produce large-diameter silicon wafers and have been pursuing the full-scale launch of SiC, which contributes to improved energy performance of BEVs. With regard to analog semiconductors, we have been accelerating the development of tough semiconductors that achieve the performance required for in-vehicle environments as well as application-specific integrated circuits, which thoroughly meet the needs of customers. By 2025, we aim to achieve ¥500 billion in revenue from internally manufactured semiconductors.

Strategy for Sensors Strengthening Our “Judgment Capabilities” for Current Trends and “Realization Capabilities” for the Future to Achieve Competitive Strategic Partnerships

For environmental recognition sensors that underpin safety system products, we are collaborating with semiconductor vendors, particularly ones with which we are engaging in strategic collaboration, to accurately communicate the need for in-vehicle sensors and establish win-win relationships in anticipation of rapidly changing technological trends. By doing so, we are pursuing forward with development activities. In addition, we are bolstering our planning capabilities for the kinds of semiconductors that will be needed in the future of mobility as well as system-related technological capabilities that will allow us to maximize semiconductor sensing performance. By 2025, we aim to develop compact, high-performance environment recognition sensors with advanced driving assistance features of level three or higher.

Message from the Chief Technology Officer

Striving to Ascertain the Changing Times So That We Can Continue to Create New Value

As we enter the period of a once-in-a-century paradigm shift, I believe it is important to once again faithfully practice the DENSO Creed of “be pioneering, innovative, and creative.” If we are to overcome this challenging time and lead the industry into the next generation, this ideal is reflected in the mid-Term Policy for 2025, which sends a message to all employees to “aim for world-first and world-best offerings,” helping them renew their awareness therein.

Starting with our R&D activities, our intellectual capital has served as a source of DENSO’s competitiveness, and over the past five years we have spent a cumulative total of roughly ¥2.4 trillion on these activities, with a focus on the domains of green and peace of mind. Amid these activities, we have seen the growing importance of not only software technologies but also semiconductors as a foundation for implementing innovations in these domains, and our strong R&D efforts have shown a high level of interest in semiconductors as well. Furthermore, although semiconductors are one form of technology that you need to respond to them on different matters, focusing on an IP strategy for these domains is increasingly important.

We have divided semiconductors into three areas: microcomputers and System-on-a-Chip (SoC), power and analog, and sensors, and will draft and implement development and procurement strategies for each area going forward.
Natural Capital

Outline of Efforts to Strengthen Natural Capital
DENSO’s business activities have a close relationship with natural capital, including through the utilization of industrial water and the use of mineral resources as raw materials for its products. Accordingly, maintaining and preserving natural capital is an extremely important task for DENSO. In particular, we believe we can help minimize the negative impact on the globally shared issue of natural capital by not only continuing and enhancing energy-saving activities, in which we as a company excel, but also by further refining and applying our long-term environmental technologies.

Assessing natural capital from the perspectives of both risks and opportunities, we are pursuing environmentally neutral activities from a variety of angles, including enhancing the efficiency of natural capital use and reducing our environmental burden, thereby working to conserve the global environment and create economic value.

Promoting Environmental Activities in Accordance with Our Eco Vision
We have established Eco Vision 2025 as an action plan for the period up until 2025, a year that marks the midway point for realizing sustainable communities and society by 2050. Under this vision, we have established the three targets of “Energy,” “Clean,” and “Green,” collectively referred to as “Target 3,” in order to accelerate a response to issues related to energy, climate change, resources, water, environmentally harmful substances, biodiversity, and co-existence with nature in consideration of the importance these issues have regarding our business activities and of social demands and expectations. We have also established “Action 10,” which we promote in all of our business activities and of social demands and expectations. We have established Eco Vision 2025 as an action plan for the period up until 2025, a year that marks the midway point for realizing sustainable communities and society by 2050. Under this vision, we have established the three targets of “Energy,” “Clean,” and “Green,” collectively referred to as “Target 3,” in order to accelerate a response to issues related to energy, climate change, resources, water, environmentally harmful substances, biodiversity, and co-existence with nature in consideration of the importance these issues have regarding our business activities and of social demands and expectations. We have also established “Action 10,” which we promote in all of our business domains from the perspectives of products, factories, and management, based on potential risks and opportunities in the future.

Minimum CO2 Monozukuri
Our business domains from the perspectives of products, factories, and management, based on potential risks and opportunities in the future. We are pursuing environmentally neutral activities from a variety of angles, including enhancing the efficiency of natural capital use and reducing our environmental burden, thereby working to conserve the global environment and create economic value.

Case Study: JIT Water Management
We have introduced Just-In-Time (JIT) water management, which is a management system that supplies water at the necessary time, in the necessary amount, and to the necessary place through the establishment of a comprehensive management model that covers facilities for everything from water supply to water disposal. Through JIT water management, we are working to ascertain the day water was used, the time it was disposed, the necessary water amounts, and the concentration of drainage in a manner specific to each production line and facility. Furthermore, this system separates industrial water, city water, and circulated water, in addition to adjusting water consumption amounts and controlling the amount of chemicals introduced in accordance with drainage concentration. Not only does this reduce the amount of water we use, it also helps us minimize the impact of water intake and wastewater on the natural environment and ecosystems.

Characteristics of DENSO’s Natural Capital (Fiscal 2022 results)

<table>
<thead>
<tr>
<th>Environment Management</th>
<th>CO2 emissions 1.91 million t (5% reduction compared with fiscal 2021, global basis)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renewable energy usage amounts 87,375 MWh (non-consolidated)</td>
<td></td>
</tr>
</tbody>
</table>

Efforts to Maximize the Value of “Green”

Aimed at the pressing crisis of climate change, DENSO is exploring the ideal vision for a sustainable mobility society and is accelerating its sustainability management with a view to maximizing the value of “green,” which is a target adopted under its Long-term Policy for 2030. In 2019, we pledged our support for the Task Force on Climate-related Financial Disclosures (TCFD). Since doing so, we have been conducting a scenario analysis regarding the impact of climate change on our business and the risks associated with this issue. In these efforts, we have also been working to pursue avenues that will lead to sustainable business growth in this section, we introduce the status of the initiatives we are promoting in accordance with the TCFD.

Scenario Analysis of Business Risks and Opportunities
To further understand the impact of climate change on our businesses and to identify climate-related risks and opportunities, we referred to the external scenarios of the International Energy Agency (IEA) and the Intergovernmental Panel on Climate Change (IPCC) and used them as benchmarks for our scenario analysis. Also, while confirming the scenario analysis for the automotive industry, we compared and contrasted this analysis with our awareness of the business environment existing under the Company’s medium- to long-term strategies to hypothesize comprehensive scenarios. Upon doing so, we were able to identify climate-related risks and opportunities by analyzing the differences between our medium- to long-term strategies and these scenarios.

Hypothesizing Scenarios
In terms of climate change, we have defined the Beyond 2 Degrees Scenario (B2DS) and the Sustainable Development Scenario (SDS), which are hypothesized by the International Energy Agency (IEA), World Energy Outlook, as “Promotional” and “Ambitious” scenarios, respectively. For the scope of these scenarios, we quantified Group CO2 emissions, carbon tax, crude oil prices, renewable energy rate, and the rate of new electric vehicle sales (nEV) introduction by 2040 and analyzed risks and opportunities based on the differences between these scenarios and Group strategies.

Analysis of Climate-related Risks and Opportunities
We performed an analysis on the differences between our awareness of the business environment, which forms the basis of our medium- to long-term strategies, and the circumstances under the scenarios above. Items expected to have an impact on our business equivalent to 2% of total turnover, or an absolute value, over ¥1.0 billion in revenue, were identified as key items. The main risks and opportunities identified through this analysis are as follows.

Also, for more details on this analysis and evaluation, please see our answers to the CDP Climate Change Questionnaire.

Major Risks

<table>
<thead>
<tr>
<th>Key Item</th>
<th>Expected impact</th>
<th>Major potential financial impact</th>
<th>Financial impact (fiscal 2022)</th>
<th>Response measures</th>
<th>Recommendation for further action</th>
</tr>
</thead>
<tbody>
<tr>
<td>New controls and regulations placed on energy production services</td>
<td>Relatively High</td>
<td>Reduction in revenue and increase in balance sheet expenses by reducing investment in energy-saving technology, capital expenditures, and CAPEX in the medium-term.</td>
<td>¥0.2 billion</td>
<td>Accelerate the development of renewable energy and energy-saving technology development by focusing on R&amp;D.</td>
<td>Recommend further action.</td>
</tr>
<tr>
<td>New controls and regulations placed on energy production services</td>
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<td>Reduction in revenue and increase in balance sheet expenses by reducing investment in energy-saving technology, capital expenditures, and CAPEX in the medium-term.</td>
<td>¥0.2 billion</td>
<td>Accelerate the development of renewable energy and energy-saving technology development by focusing on R&amp;D.</td>
<td>Recommend further action.</td>
</tr>
</tbody>
</table>

Also, with regard to physical risks, we have defined the RCP 8.5 and RCP 6.0 scenarios of the Fifth Assessment Report of the IPCC as “transient” and “transition” scenarios, respectively. We visualized aspects such as weather disasters, rising sea levels, deteriorating ecosystems, and water and food shortages in a qualitative manner and analyzed risks and opportunities based on the differences between these scenarios and Group strategies.

Scenario for the Commercialization of Electrification as Stated by the IEA (under the assumption of an average temperature increase of 2°C)

Projected sales volume of passenger vehicles (millions of vehicles)

<table>
<thead>
<tr>
<th>Scenario</th>
<th>2030</th>
<th>2040</th>
<th>2050</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCP 8.5</td>
<td>¥100.0 billion</td>
<td>¥300.0 billion</td>
<td>Accelerate the development of energy-saving technology development by focusing on R&amp;D.</td>
</tr>
<tr>
<td>RCP 6.0</td>
<td>¥12.0 billion</td>
<td>Accelerate the development of energy-saving technology development by focusing on R&amp;D.</td>
<td>Implement measures to mitigate the impact of climate-related risks and opportunities.</td>
</tr>
</tbody>
</table>

Fiscal 2022 results for CO2 emissions per unit (fiscal 2021 results for comparison with fiscal 2021 results)

<table>
<thead>
<tr>
<th>Environment Management</th>
<th>CO2 emissions per unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENSO CORPORATION: 321–460 t/Grp</td>
<td>321–460 t/Grp</td>
</tr>
</tbody>
</table>

Going forward, we will continue to enhance energy-saving activities utilizing IoT and other technologies, and at the same time, we will purchase electricity and gas derived from economically renewable natural resources, introduce self-power generation via solar panels, and gradually introduce at other plants our energy recycling systems currently undergoing verification tests. Through such efforts, we will aim to make our plants completely carbon neutral.

Initiatives toward Water Risks
In recent years, in addition to the prevention of water contamination and other pollution, a variety of water problems including droughts and floods are intensifying, resulting in stronger demand for efforts to counter water risks. For this reason, DENSO has identified water risks. Based on evaluations that take into account regional characteristics (locational factors), we promote the reduction of these risks by strengthening relevant efforts to respond to water risks and sharing cases of such measures. We also ensure emergency water resources in accordance with regional needs and actively promote rainwater management. Furthermore, we are undertaking efforts to address water risks in our supply chain based on our understanding of current conditions.

Please see the following URL for more information on our efforts to respond to water risks (“JIT Water Risk Management”)

DIEGO views environmental issues, including climate change, as one of the highest priority issues (Materiality) in the promotion of its sustainability strategy. Accordingly, DIEGO has established KPIs for these issues and is working to achieve them through its business activities. DIEGO has established the Companywide Safety, Health, and Environment Committee as an organization for deliberating on and determining important items related to climate change. This committee is chaired by a representative member of the Board, who also serves as an executive vice president, and meets twice a year. At these meetings, discussions are held and decisions to be taken in important items in the promotion of environmental management, such as formulating medium- to long-term targets and executing investment related to energy conservation. Items that the Companywide Safety, Health, and Environment Committee decides to have a significant influence on the Company’s businesses (environmental vision, medium-term management strategies, large-scale investments, etc.) are then deliberated by the Management Deliberation Meeting and the Board of Directors. Serving under the Companywide Safety, Health, and Environment Committee are committees in each business group and at each Group company in Japan, as well as committees in each region of operation overseas (North America, South America, Europe, China, and Southeast Asia). These committees are chaired by a managing officer. Furthermore, DIEGO has established energy, logistics, clean products, and production environment subcommittees. By clarifying the scope of responsibility for each subcommittee, the Company is promoting activities related to safety, health, and the environment in an efficient and highly focused manner.

Impact on Management Strategy
As mentioned previously, based on the results of our analysis, we have come to understand the significant impact that the climate change-related risks and opportunities expected to occur by 2030 will have on our product development and production activities, particularly the trend toward carbon neutrality. Based on the Company’s environmental vision formulated in 2016, we have established the new Environmental Neutrality Systems Development Division and the PC System Business Development Division (currently the Energy Solution Development Division) in a Companywide effort to create carbon-neutral manufacturing, encompassing carbon neutrality throughout all processes through to the production activities at our plants.

Impact on Financial Planning
According to the climate change-related risks of the new energy, logistics, and production environment subcommittees, items related to climate change are among the highest priority issues (Materiality) in the promotion of DIEGO’s sustainability strategy. Accordingly, DIEGO has established KPIs for these issues and is working to achieve them through its business activities. DIEGO has established the Companywide Safety, Health, and Environment Committee as an organization for deliberating on and determining important items related to climate change. This committee is chaired by a representative member of the Board, who also serves as an executive vice president, and meets twice a year. At these meetings, discussions are held and decisions to be taken in important items in the promotion of environmental management, such as formulating medium- to long-term targets and executing investment related to energy conservation. Items that the Companywide Safety, Health, and Environment Committee decides to have a significant influence on the Company’s businesses (environmental vision, medium-term management strategies, large-scale investments, etc.) are then deliberated by the Management Deliberation Meeting and the Board of Directors. Serving under the Companywide Safety, Health, and Environment Committee are committees in each business group and at each Group company in Japan, as well as committees in each region of operation overseas (North America, South America, Europe, China, and Southeast Asia). These committees are chaired by a managing officer. Furthermore, DIEGO has established energy, logistics, clean products, and production environment subcommittees. By clarifying the scope of responsibility for each subcommittee, the Company is promoting activities related to safety, health, and the environment in an efficient and highly focused manner.

Impact on Financial Planning
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Meters and Targets
In light of the progress we have made with activities based on Eco Vision 2025 and on social demands and expectations, in fiscal 2022, we adopted a more ambitious goal of becoming carbon neutral and commenced activities to reach this goal accordingly.

We clarified specific targets for this goal in the Mid-term Policy for 2025. At the same time, we incorporated a sustainability target pertaining to our material issues into part of our management targets. As previously mentioned, the status of Climate Change-related Targets (Reductions in CO2 emissions)

<table>
<thead>
<tr>
<th>Domain</th>
<th>Target (2035)</th>
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<tbody>
<tr>
<td>Mobility products</td>
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<tr>
<td>New businesses (energy use)</td>
<td>50% reduction in CO2 compared with fiscal 2021*</td>
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* Base value: CO2 emissions from mobility products in fiscal 2021

Basic Strategy for Realizing Carbon-neutral Monozukuri

1. Thoroughly conserve energy and increase renewable energy utilization
2. Transition to carbon-neutral energy in our external procurement activities
3. Promote energy conservation through reforms to production and supply structure
4. Transition to carbon-neutral gas

Gained Value (Outcome)

Social and Relationship Capital

Outline of Efforts to Strengthen Social and Relationship Capital
DENSO advances its business activities while interacting with various stakeholders. Accordingly, DENSO believes that establishing good relationships with its stakeholders and increasing its number of allies is essential parts of improving corporate value. Particularly, in the so-called VUCA (volatility, uncertainty, complexity, and ambiguity) era, where the future outlook is opaque, it has become extremely difficult for us to flexibly respond to social changes and needs on our own, and it is therefore necessary to collaborate and coordinate with a wide range of stakeholders.

Furthermore, to avoid self-satisfying activities that are biased by our own logic and preconceptions, we are deepening our understanding of stakeholder expectations and options through dialogue with them and reflecting that understanding in our corporate activities. By doing so, we aim to become a company that is truly inspiring by realizing growth together with our stakeholders and society as a whole.

Initiatives to Enhance Corporate Value by Strengthening Relationships with Our Stakeholders

Employees

1. Relationship between Social Capital, Corporate Value, and Each Other Type of Capital

- Enhancing employee engagement to create new value from the collective wisdom and strengths of our employees across the globe is essential to realizing the growth of DENSO.
- To this end, we hold dialogues with our employees and are promoting various initiatives to maintain and enhance employee engagement so that all employees can work with enthusiasm and fully leverage their individual capabilities.

- Related Capital Human capital, intellectual capital

Initiatives to Strengthen Relationships

- Enhancements of business and service capabilities
- Improving work conditions
- Providing opportunities for growth

Customers

1. Relationship between Social Capital, Corporate Value, and Each Other Type of Capital

- In addition to increasing our financial capital through the adoption of our products and services, strengthening our relationships with customers helps us with such efforts as building optimal supply structures, acquiring new technologies and know-how, and cultivating employees by having them gain business experience together with customers.

- Related Capital Financial capital, human capital, manufacturing capital, and intellectual capital

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- Enhancements of business and service capabilities
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- Related Capital Financial capital, human capital, manufacturing capital, and intellectual capital

Initiatives to Strengthen Relationships

- Enhancements of business and service capabilities
- Improving work conditions
- Providing opportunities for growth
Business Partners
Suppliers, service stations, and M&A business alliance partners, etc.

Related Capital
Financial capital, human capital, intellectual capital, and social and relationship capital.

Local Communities
Local community members, governments, NPOs and NGOs, people of the next generation, etc.

Shareholders and Investors
Financial capital to invest in such areas as facility enhancement, R&D activities, and human resource development is required in order to realize sustainable growth and enhance corporate value. For that reason, we understand that our shareholders and other investors are valuable supporters who provide us with advice on how to promote sound management. We therefore believe it is important to build solid trust-based relationships with them.

By enhancing the transparency of our management through timely and appropriate information disclosure and dialogue, we will aim to enhance our corporate value.

Undertaking Initiatives toward Respecting Human Rights
Against the backdrop of the rising interest toward sustainability around the globe, corporations are strongly expected to consider human rights within their business activities.

A workplace free of harassment and discrimination helps to lower the risks of quality-related issues and work-related injuries. Furthermore, promoting business activities that give consideration to human rights increases the number of business opportunities for the Company and enables us to acquire and maintain human resources. Such business activities also lead to improved employee engagement.

DENSO views respect for human rights as a crucial theme and has therefore established respect for human rights as one of its material issues within the promotion of sustainable management, and is undertaking efforts toward respecting human rights accordingly.

Human Rights Policy
Our Sustainability Policy and the Code of Conduct clearly prohibit labor practices or similar actions that infringe upon human rights, and we have worked to ensure that these policies are thoroughly shared across the Group.

Recently, initiatives toward respecting human rights in business are becoming even more important for global corporations. In this environment, we believe we need to further promote human rights-related initiatives and have therefore formulated the DENSO Group Human Rights Policy as an individual policy to address human rights issues.

Please see the following URL to view the DENSO Group Human Rights Policy.

Promoting Employee Education and Enlightenment
DENSO promotes education and enlightenment activities for employees at each Group company with the aim of encouraging employees to act based on the DENSO Group Human Rights Policy.

Through education programs by grade (for corporate officers, newly appointed management, new employees, mid-career hires, and employees on a fixed-term contract, etc.) and online compliance tests that target all employees, including those at domestic Group companies, DENSO CORPORATION is engaging in education and enlightenment activities to deepen employee awareness and understanding of human rights.

Human Rights Due Diligence
In accordance with the DENSO Group Human Rights Policy, we identify and evaluate human rights-related risks that can occur as a result of our business activities and are promoting the ongoing process of human rights due diligence to ensure measures to prevent such risks and minimize their impact should they occur.

As the first step of this process, we carried out a human rights risk assessment in order to identify and evaluate potential human rights-related risks facing the Group with the cooperation of a third-party institution specializing in human rights. As a result of this assessment, we identified four themes for potential human rights-related risks that have a high relationship with the Group, including “human rights of non-Japanese workers in Japan” and “complicity with forced labor in the supply chain.” Going forward, we will carry out an impact assessment (evaluation of impact on human rights) regarding these identified themes and enact and strengthen appropriate measures and initiatives accordingly.

Non-Japanese Workers in Japan
Human rights issues facing non-Japanese technical interns represent a major human rights-related risk that has a high relationship with the automotive supply chain.

To address these issues, we conduct written surveys of domestic Group companies and suppliers to confirm the presence of non-Japanese technical interns. Due to the existence of potential human rights-related risks, we will conduct an impact assessment to ascertain whether there are any issues that impact human rights and confirm the level of impact if so. We will then enact appropriate measures based on the results of this assessment.

Initiatives toward Respecting Human Rights in the Supply Chain
Mining sites for mineral resources involve a substantial amount of dangerous work, and there have been reports of human rights issues at such sites, including child and forced labor. Accordingly, responsible mineral resource and raw material procurement is an extremely important theme within the supply chain.

In its Supplier Sustainability Guidelines, DENSO clearly states its commitment to conducting business activities that give consideration to human rights. To ensure that our suppliers comply with these guidelines, we promote such initiatives as requiring them to implement self-assessments and directly assisting them with improvement measures through dialogue.

Furthermore, with regard to the issue of conflict minerals, which are mined in the Democratic Republic of the Congo and surrounding countries under poor labor environments, we formulated the DENSO Group Human Rights Policy. Through programs to certify the social standards of minerals, we will conduct a survey on conflict minerals every year with the cooperation of our suppliers.

Grievance Mechanism
We have established an internal whistleblowing system that can be used by domestic Group companies and suppliers. In the event an issue arising that impacts human rights or contributes to any impact on human rights, this system provides relief to the affected party.

Going forward, in addition to steadily promoting the DENSO Group Human Rights Policy, we will enhance the level of our initiatives toward respecting human rights in such ways as bolstering our human rights due diligence and relief measures.

Please see the “Respect for Human Rights” section of our corporate website for more details on our human rights guidelines.
https://www.denso.com/english/about/aboutus/sustainability/respect_for_rights.html
DENSO operates seven core businesses in a broad range of domains, centered on the mobility domain. The Company has established a business portfolio for creating new value that can address the future needs of the mobility society. Through this portfolio, DENSO strives to maximize value in its businesses so that it can enhance the potential of the mobility society.

In addition, DENSO will accelerate the reshuffling of its business portfolio in order to realize sustainable growth under a rapidly changing business environment.

**Business Composition and Focus Fields**

In its automotive businesses, DENSO supplies an extensive lineup of products and systems as a Tier 1 supplier that is trusted by car manufacturers around the global. We operate a total of five automotive businesses, starting with the Electrification Systems Business, which provides the key for the shift to electrification. In addition, we operate the Powertrain Systems Business, which can manufacture powertrains for all types of vehicles, and the Thermal Systems Business that manufactures such products as in-vehicle air-conditioning systems, for which we boast the No. 1 global share. We also operate the Mobility Electronics and Advanced Devices businesses, which will be crucial for mobility-related development in the future. These five businesses contribute to development in three of our focus fields: electrification, advanced safety and automated driving, and connected driving.

Furthermore, in our non-automotive businesses, we leverage the technologies cultivated in our automotive businesses to contribute to the field of factory automation (FA) and AgTech.

### Value Creation in Our Businesses

In each of our seven core businesses, we contribute to development in our four focus fields and work to maximize the value of “green” and “peace of mind,” which are adopted as part of our Long-term Policy for 2030. In addition, through our business activities, we will work to achieve the targets of the SDGs and create new value for the future mobility society.

<table>
<thead>
<tr>
<th>Segment</th>
<th>Contribution to Long-term Policy for 2030 (Share of Green and Peace of Mind)</th>
<th>Revenue Ratio by Segment in Fiscal 2022 (Based on organizational structure as of Fiscal 2022)</th>
<th>Relevant Focus Fields</th>
<th>Relevant SDGs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrification Systems</td>
<td>Green</td>
<td>20.6%</td>
<td>Advanced Safety and Automated Driving</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Peace of Mind</td>
<td></td>
<td>Connected Driving</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Non-Automotive Businesses (FA and AgTech)</td>
<td></td>
</tr>
<tr>
<td>Powertrain Systems</td>
<td>Green</td>
<td>22.6%</td>
<td>Advanced Safety and Automated Driving</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Peace of Mind</td>
<td></td>
<td>Connected Driving</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Non-Automotive Businesses (FA and AgTech)</td>
<td></td>
</tr>
<tr>
<td>Thermal Systems</td>
<td>Green</td>
<td>23.2%</td>
<td>Advanced Safety and Automated Driving</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Peace of Mind</td>
<td></td>
<td>Connected Driving</td>
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<td></td>
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<td></td>
<td>Non-Automotive Businesses (FA and AgTech)</td>
<td></td>
</tr>
<tr>
<td>Mobility Electronics</td>
<td>Green</td>
<td>24.6%</td>
<td>Advanced Safety and Automated Driving</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Peace of Mind</td>
<td></td>
<td>Connected Driving</td>
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<td></td>
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<td></td>
<td>Non-Automotive Businesses (FA and AgTech)</td>
<td></td>
</tr>
<tr>
<td>Advanced Devices</td>
<td>Green</td>
<td>3.2%</td>
<td>Advanced Safety and Automated Driving</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Peace of Mind</td>
<td></td>
<td>Connected Driving</td>
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<td></td>
<td></td>
<td></td>
<td>Non-Automotive Businesses (FA and AgTech)</td>
<td></td>
</tr>
<tr>
<td>Industrial Solutions</td>
<td>Green</td>
<td>3.4%</td>
<td>Advanced Safety and Automated Driving</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Peace of Mind</td>
<td></td>
<td>Connected Driving</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Non-Automotive Businesses (FA and AgTech)</td>
<td></td>
</tr>
<tr>
<td>Food Value Chain</td>
<td>Green</td>
<td>3.4%</td>
<td>Advanced Safety and Automated Driving</td>
<td></td>
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<td></td>
<td>Peace of Mind</td>
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<td>Connected Driving</td>
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<td></td>
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<td></td>
<td>Non-Automotive Businesses (FA and AgTech)</td>
<td></td>
</tr>
</tbody>
</table>

*Sales including semiconductors/green semiconductors, ASICs, sensors, etc. produced internally for other businesses: ¥420.0 billion.*

**Overview by Product**

- **81** Business Portfolio and Value Creation
- **82** Business Information and Main Products
- **84** Electrification Systems
- **86** Powertrain Systems
- **88** Thermal Systems
- **90** Mobility Electronics
- **92** Advanced Devices
- **94** Industrial Solutions
- **96** Food Value Chain
### Business Information and Main Products

#### Relationship of Companywide Strategy and Business Strategies

Business strategies linked to the Companywide strategy are key to realizing the Mid-term Policy for 2025 and achieving “green” and “peace of mind” strategies. DENSO is able to provide value to society by steadily shuffling its business portfolio based on strategies for each growth business and strategies for businesses nearing their final stages, and accelerating the pace for developing and increasing sales of environmentally friendly and safe products. Leveraging its unique strengths in each business and capital resources, each year, DENSO draws up, deliberates on and monitors specific short-, medium-, and long-term scenarios for realizing the Companywide strategy based on the current business environment and progress on strategies. Additionally, the Company is committed to reinforcing its strengths in R&D, Monozukuri, and Hitozukuri in each business. On the following pages, we introduce the results of these activities.

<table>
<thead>
<tr>
<th>Segment</th>
<th>Business Activities</th>
<th>Core Products That Contribute to Green and Peace of Mind</th>
</tr>
</thead>
</table>
| **Electrification Systems** | Development and manufacture of HEV and BEV drive systems, power supply systems, and aircraft propulsion systems  
Development and manufacture of electric power steering motors, control brake motors, and electric control units (ECUs)  
Development and manufacture of various kinds of small motor system products, such as windshield wiper systems, power window motors, engine control motors, and blower fans | ![Power control units](image1)  
![Motor generators](image2)  
![Battery ECU](image3)  
![Battery pack](image4)  
![Electric power steering motors](image5)  
![Control boxes (Motor ECU)](image6)  
![Windshield wiper systems](image7)  
![Power window regulation motors](image8) |
| **Powertrain Systems**    | Development and manufacture of gasoline and diesel engine management systems, which cover everything from combustion to intake and exhaust  
Development and manufacture of valve-related products, such as variable cam timing (VCT) systems and exhaust gas sensors, and products for drive systems, such as oil pressure control valves | ![Common rail systems](image9)  
![Gasoline direct injectors](image10)  
![High pressure pumps](image11)  
![Ignition coils](image12)  
![Spark plugs](image13)  
![Exhaust gas sensors](image14)  
![Variable cam timing (VCT) systems](image15)  
![Motorcycle products (NGV, ECU)](image16) |
| **Thermal Systems**       | Development and manufacture of air-conditioning systems for passenger and commercial vehicles  
Development and manufacture of air-quality products, that provide comfortable spaces  
Development and manufacture of cooling products, such as radiators and inverter coolers  
Development and manufacture of thermal management systems and heat pump systems | ![Air conditioning units](image17)  
![Condenser](image18)  
![Radiators](image19)  
![Air conditioner systems](image20)  
![Heat pump systems](image21) |
| **Automotive Electronics** | Development and manufacture of environmental products, such as engine ECUs, HEV ECUs, BEV ECUs, and body ECUs  
Development and manufacture of HCU, meters, HUDs, CID, ETC systems for vehicles, road-to-vehicle and vehicle-to-vehicle communication devices, vision sensors, millimeter-wave radar sensors, sonar sensors, self-driving car ECUs, airbag sensors & ECUs, DSMs, and other safety-related products  
Development and manufacture of mobility-related electronic systems and platforms  
1. HCU: Human-machine interface control units  
2. HUDs: Head-up displays  
3. CID: Center information displays  
4. ETC: Electronic toll collection  
5. DSM: Driver status monitors | ![Engine ECUs](image22)  
![HEV ECUs](image23)  
![BEV ECUs](image24)  
![Vision sensors](image25)  
![Millimeter-wave radar sensors](image26)  
![Integrated output systems](image27)  
![Full graphic meters](image28)  
![Road to vehicle and vehicle to vehicle communication devices](image29) |
| **Mobility Electronics**  | Development and manufacture of transmission hydraulic control valves, shift-by-wire system actuators, and other drive-related products  
Development and manufacture of energy management products, such as BEV engine coolant water volume control valves  
Development and manufacture of microelectronic devices, such as in-vehicle power semiconductors, semiconductor sensors, and custom integrated circuits (ICs)  
1. Engine ECUs  
2. HEV ECUs  
3. BEV ECUs  
4. Vision sensors  
5. Millimeter-wave radar sensors  
6. Integrated output systems  
7. Full graphic meters  
8. Road to vehicle and vehicle to vehicle communication devices | ![Shift-by-wire system solutions](image30)  
![Accelerator pedal modules](image31)  
![Power cards](image32)  
![Semiconductor sensors](image33)  
![Application-specific integrated circuit (ASIC)](image34) |
| **Advanced Devices**      | Development and manufacture of industrial equipment best exemplified by our automated equipment, modules, and industrial use robots  
Development and manufacture of equipment for use by society, including handy terminals and OR and RFID payment and recognition solutions, and provision of services (building access management systems, automated checkout systems for company cafeterias, facial recognition systems, etc.) | ![Industrial robots](image35)  
![Collaborative robots](image36)  
![3D Data servers](image37)  
![OCR solution services](image38) |
| **Industrial Solutions**  | Development and manufacture of industrial equipment best exemplified by our automated equipment, modules, and industrial use robots  
Development and manufacture of equipment for use by society, including handy terminals and OR and RFID payment and recognition solutions, and provision of services (building access management systems, automated checkout systems for company cafeterias, facial recognition systems, etc.) | ![Industrial robots](image39)  
![Collaborative robots](image40)  
![3D Data servers](image41)  
![OCR solution services](image42) |
| **Non-automotive Businesses** | Manufacturing and sale of turnkey solutions* for horticultural facilities (consulting and cloud services related to greenhouse materials, devices, and cultivation) as well as the provision of after-sales services  
Manufacturing and sale of in-vehicle refrigeration units and compact mobile refrigeration units as well as the provision of after-sales services  
Building and sale of systems for digitization of food distribution and data linked services  
1. A group of products and services combined in an optimized way to enable all people involved in agriculture to produce crops in a stable manner  
2. A group of products and services combined in an optimized way to enable all people involved in agriculture to produce crops in a stable manner  
3. A group of products and services combined in an optimized way to enable all people involved in agriculture to produce crops in a stable manner  
4. Products for large-sized facilities, such as those in which high-yield cultivation is achieved by using the greenhouse space for cultivating the environment of greenhouses in Japan | ![Horticultural facility-related products (from A to D)](image43)  
![Compact mobile refrigeration units](image44)  
![In-vehicle refrigeration units](image45)  
![QR solution services (plan to sell)](image46)  
![Production support service (plan to sell)](image47)  
![Production support service (plan to sell)](image48)  
![Production support service (plan to sell)](image49)  
![Production support service (plan to sell)](image50) |

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* A group of products and services combined in an optimized way to enable all people involved in agriculture to produce crops in a stable manner
ELECTRIFICATION SYSTEMS

Supporting electrification in all areas of mobility to realize an enriched environment and comfortable movement

To deliver electrification for vehicles that are eco-friendly and enable even more comfortable travel, we have built up a solid track record with the development of electrification technologies, realizing high performance, compactness, and fuel efficiency for the major products needed for HEVs. Going forward, we will leverage our expansive business domains to form linkages between various in-vehicle systems and products in an effort to efficiently manage energy within vehicles. In this manner, we will further improve fuel efficiency and contribute to the conservation of energy.

Business Strategy for 2022

DENSO is efficiently shifting management resources to electrified product businesses by accelerating the reorganization of businesses nearing their final stages. We intend to expand electrified product businesses by quickly adding products to our lineup that address global and customer needs as society becomes more electrified in a bid to become carbon neutral.

Strategy for Businesses Nearing Final Stages

For businesses nearing their final stages, DENSO is efficiently restructuring production and supply structures, including consolidating production facilities, while maintaining the quality demanded by its customers and fulfilling its responsibility to supply products. As a part of these efforts, in June 2022, the Company moved its alternator business to Chengdu Huachuan Electric Parts Co., Ltd., and efficiently shifting them to growth businesses.

DENSO is accelerating business restructuring in mature product businesses. In January 2022, DENSO transferred the type III alternator business to Chengdu Huachuan Electric Parts Co., Ltd., and efficiently shifting them to growth businesses.

Specific Initiatives to Achieve Strategic Aims

Shift to Electrified Product Businesses and Expansion of Production and Supply Structures

DENSO is accelerating business restructuring in mature product businesses in order to effectively utilize existing assets while rapidly and efficiently shifting them to growth businesses. DMTN (North America) and TDS (Tianjin) have commenced production of inverters and motor generators in growth businesses.

In January 2022, DENSO transferred the type III alternator business to Chengdu Huachuan Electric Parts Co., Ltd., and efficiently shifting them to growth businesses.

Reinforce development structure and expand lineup of electric drive products

After the Electrification Innovation Center established at the Anjo Plant, we are rapidly and efficiently developing and introducing next-generation manufacturing technologies, such as prototyping production lines that help conserve energy and preserve the environment by reducing CO₂ emissions, and a CO₂ recycling plant on mass production lines for an adjoining electrified product plant.

Reinforce development structure and expand lineup of electric drive products

Outcome of Green and Peace of Mind Strategy

<table>
<thead>
<tr>
<th>Objectives</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reinforce development structure and expand lineup of electric drive products</td>
<td>Completed lineup in Core &amp; Customization Strategy for electric drive systems. Launched System Engineering Department and strengthened the overall structure of the energy management system.</td>
</tr>
<tr>
<td>Advance development of new green businesses</td>
<td>Developed new motors for electric powered aircraft with Honeywell. Began to develop high-voltage battery packs for BEVs.</td>
</tr>
<tr>
<td>Promote CO₂-neutral plants</td>
<td>Commenced operations at facilities to generate methane gas at CO₂ recycling plant.</td>
</tr>
</tbody>
</table>

Resolving Social Issues through Our Businesses

Contributing to a Sustainable Mobility Society with Electrification Technologies

DENSO is developing electrification technologies that support all forms of electric-powered mobility, from compact distribution vehicles to passenger cars and large distribution vehicles. In a joint initiative with Honeywell International Inc., a long-term alliance partner, the Company newly developed an electric motor for electric powered aircraft that do not emit CO₂ while ensuring a quiet and comfortable flight. Our electric motor was adopted for use in an eVTOL (all-electric vertical take-off and landing) aircraft being developed by Lilium GmbH. This aircraft is a form of air mobility that solves the issues of congestion in urban areas, the emission of CO₂, and access to suburban areas and outlying regions far away from core transportation lines via a high-speed direct transportation network.

The electric drive motor that has been selected for this aircraft is a safe and environmentally conscious system that is compact and lightweight thanks to innovative design, and it does not emit exhaust gas when operating. For the air mobility field, DENSO will apply its electrification technology and high-quality mass production technology amassed in products for vehicles in the automobile industry by reapplying technologies that it refines in the aircraft business to the automobile industry, and aim to contribute to a sustainable mobility society.

Efforts toward Quality

One of our most important business assets is our reputation for quality in markets where we have continued to deliver large volumes of products around the world. Sharing this knowledge with customers, we are able to guarantee the quality of our electrified products, which must never have severe defects because they are dependent upon AI-driven vehicles. We are also enhancing our ability to respond to sudden changes in the business environment while ensuring the quality of existing products, such as by rapidly adopting alternative parts and materials as a part of our BCP that has become increasingly important today.

Business Strengths

- **System Development Capabilities**
- **Global Production and Supply Structure**
- **Manufacturing for a New Era**

DENSO Manufacturing Techno-Studios, a part of DENSO Manufacturing Technologies, Inc. (DMTN), are currently introducing 10 new business models, which DENSO claims will lead to the creation of 10 new business models. The company is also introducing new business models in Europe and India, where growth is gaining momentum.

It has become increasingly important to improve the environmental performance of vehicles as electrification intensifies. The DENSO Group offers the full range of components used in electric drive systems, the heart of electric vehicles. Our system development capabilities involve having a thorough understanding of how each hardware component in a vehicle is used and being able to incorporate that knowledge so that higher levels of performance and reliability can be realized as a whole, satisfying diverse market needs.

DENSO is efficiently shifting management resources to electrified product businesses by accelerating the reorganization of businesses nearing their final stages. We intend to expand electrified product businesses by quickly adding products to our lineup that address global and customer needs as society becomes more electrified in a bid to become carbon neutral.

Diversifying Markets, Respecting to Faster Growth in BEVs

To realize its growth scenario, DENSO is expanding its lineup of electrified products based on its Core & Customization Strategy for its standardized product line. In January 2022, Toyota Motor's new Q4H and VOYK models began to feature our new high-power and compact inverters that reduce loss in battery power by 20% compared with previous products. DENSO commenced mass production of electricity supply units (ESUs) with functions for charging, power conversion, and power distribution for Toyota Motor's bZ4X model in May 2022 and for Subaru’s Solterra model in mid-2022.

Relevant SDGs

- * Solid oxide fuel cells
- *2 Solid oxide electrolyzer cells

Head of Business Group

Jiro Ishihara
DENSO is streamlining businesses nearing their final stages in the internal combustion engine domain, and creating new energy options for carbon-neutral powertrains, ties also contribute to the expansion of technologies and development capabilities in vehicles. Our core injects fuel in diesel internal combustion world-first products, such as common rail DENSO has mass-produced a number of society as a whole.

Balancing the joy of life with vehicles with superior environmental performance—Providing solutions that help overcome this seemingly contradiuctive task We will reduce the environmental burden of vehicles to the greatest extent possible and respond to the diversification of fuel and various environmental regulations, which are becoming stricter by the year. We will also work to supply high-quality systems and components. By doing so, we will strive to create and deliver new value in order to contribute to society as a whole.

Business Strengths

DENSO is combining its accumulated on-site knowledge and the latest digital technologies to outline concepts for the optimal allocation of resources and to consolidate and integrate related organizations. The Company is focusing on the development of products that solve issues related to new energy, such as hydrogen and biofuels.

To enable the high-performance driving of vehicles, DENSO has refined its highly reliable manufacturing technologies that are integrated from materials preparation to molding and sintering, as well as its technologies for high-speed assembly and highly complex and precise processing at the micron level. DENSO aims to sharpen its technological edge further by fusing together cutting-edge AI and digital technologies with robots and its accumulated skills and manufacturing knowledge.

Personnel, Masters of Powertrain, From Organizational Capabilities

In order to create vehicles with automakers that can satisfy tough environmental regulations and withstand harsh operating environments, professionals with a wide range of core technologies and skill sets work together from a vehicle perspective, while deploying advanced organizational capabilities to leverage specializations in all areas, from systems to components.

Business Strategy for 2022

DENSO is streamlining businesses nearing their final stages in the internal combustion engine domain, and creating new energy businesses.

Highly Reliable Manufacturing Technologies That Facilitate Safe Driving of Vehicles

To respond to the diversification of fuel and various environmental regulations, which are tightening regulations on environmental stress, these divisions will accelerate to determine a resolution. To respond to tightening regulations on fuel performance and exhaust gas as well as the increasing complexity of environmental stress, these divisions will accelerate and improve the accuracy of quality verification measures through digital engineering and model-based development and virtual vehicle evaluations.

Specific Initiatives to Achieve Strategic Aims

Aiming to Solve Environmental and Social Issues by Advancing Technologies and Skills Inherited from Our Predecessors

The replacement of internal combustion engine vehicles with BEVs will accelerate in the movement toward a carbon-neutral environment and society. Even in 2040, however, worldwide demand for internal combustion engine vehicles will probably be at the same level as in 2020. We have a responsibility to continue delivering to our customers high-quality products for internal combustion engines in an affordable and reliable manner. The type of energy used differs by region, depending on geopolitics and energy security, so it is necessary to increase choices for mobility solutions.

Promoting Eco Factory Activities on a Path to Carbon Neutrality

To realize carbon-neutral manufacturing, DENSO has updated its injection plant within the Zenmyo Plant. This update has created a plant that prevents quality-related issues in the market. To that end, and in specialized divisions, we have gathered together human resources who can handle quality in a comprehensive manner, covering everything from systems to components. These divisions engage in efforts that span from investigating the true causes of quality-related issues to reproducing problems to determine a resolution. To respond to tightening regulations on fuel performance and exhaust gas as well as the increasing complexity of environmental stress, these divisions will accelerate and improve the accuracy of quality verification measures through digital engineering and model-based development and virtual vehicle evaluations.

Resolving Social Issues through Our Businesses

Despite uncertainties about how energy will be used in the future, in order to accelerate the commercialization of new energy businesses, DENSO has drawn up a medium- to long-term energy vision and top-level strategies to guide the optimal allocation of resources and to consolidate and integrate related organizations. The Company is focusing on the development of products that solve issues related to new energy, such as hydrogen resources.

MONSOON

DENSO is combining its accumulated on-site knowledge and the latest digital technologies to outline concepts for new energy business lines in order to stay competitive in a bid to realize production lines that are able to flexibly manufacture multiple products in accordance with changes in demand.

HITbob

In order to smoothly match human resources to growth domains and shift power, we are visualizing specializations in all areas, from systems to components. By doing so, we will strive to create and deliver new value in order to contribute to society as a whole.

Business Strategy for 2022

•  Amid significant changes in markets, DENSO is optimizing its production structure by realigning the Zenmyo Plant have cut energy usage for manufacturing in half.

Effect of Green and Peace of Mind Strategy

DENSO’s Value Creation Story Growth Strategy Foundation for Creating New Value Overview by Product Corporate Governance Corporate Data

Growth Strategy

To realize a green society, DENSO is accelerating and strengthening activities (in carbon-neutral fuels, etc.) to commercialize businesses in the new energy domain:

•  DENSO is increasing choices for carbon-neutral powertrains compatible with new energy sources (hydrogen, biofuels, synthetic fuels, etc.) in order to create carbon-neutral vehicles.

•  DENSO contributes to the proliferation of carbon-neutral vehicles by coordinating with energy companies in the infrastructure and aftermarket service fields.

Strategy for Businesses Nearing Final Stages

To realize a sustainable mobility society and provide to customers safe and secure products for internal combustion engines, DENSO is envisioning scenarios and drawing up plans for businesses nearing their final stages in the internal combustion engine domain:

•  With the aim of maintaining and improving the competitiveness of internal combustion engine products as an industry, DENSO is thinking beyond corporate boundaries and examining the transfer of businesses to ideal partners.*

•  On January 27, 2022, DENSO signed an agreement to transfer its fuel-saving module business to Asian Industries Co. Ltd.

•  Amid significant changes in markets, DENSO is optimizing its production structure by realizing global production bases and creating flexible production lines able to manufacture multiple products depending on the volume of demand.

Organizational Capabilities

In order to create vehicles with automakers that can satisfy tough environmental regulations and withstand harsh operating environments, professionals with a wide range of core technologies and skill sets work together from a vehicle perspective, while deploying advanced organizational capabilities to leverage specializations in all areas, from systems to components.

Business Strategy for 2022

DENSO is streamlining businesses nearing their final stages in the internal combustion engine domain, and creating new energy businesses.

Efforts toward Quality

We have positioned the restoration of our quality as our top priority issue and are working to build a corporate structure that prevents quality-related issues in the market. To that end, and in specialized divisions, we have gathered together human resources who can handle quality in a comprehensive manner, covering everything from systems to components. These divisions engage in efforts that span from investigating the true causes of quality-related issues to reproducing problems to determine a resolution. To respond to tightening regulations on fuel performance and exhaust gas as well as the increasing complexity of environmental stress, these divisions will accelerate and improve the accuracy of quality verification measures through digital engineering and model-based development and virtual vehicle evaluations.

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Outcomes of Green and Peace of Mind Strategy

DENSO is working with its customers to transition away from older products with high environmental impact and adopt higher-grade models. We have started to realize and consolidate global operations in the internal combustion engine domain with the aim of building an efficient production structure while eying the maturing business domain for internal combustion engines and its eventual contraction.

Create business concepts in new energy domains

DENSO has created concepts for businesses and products for new energy sources (hydrogen, biofuels, synthetic fuels, etc.) and has launched projects to develop and commercialize new businesses in each domain through internal and external collaboration.
DENSO is reshuffling its portfolio of thermal management products for BEVs from its lineup of internal combustion engine products. With the arrival of a carbon-neutral society and the CASE era, the automotive industry is undergoing a paradigm shift. Amid this shift, the Thermal Systems Business Group is working to leverage its strengths as a leading global thermal systems supplier to the greatest extent possible to help create the society of the future through heat management systems, which resolve issues related to BEVs, such as extending driving range, and products that improve air quality, which create comfortable vehicle interiors.

**Business Strategy for 2022**

DENSO is reshuffling its portfolio of thermal management products for BEVs from its lineup of internal combustion engine products. The Company is creating a high-earnings business strategy while striving to create a carbon-neutral society.

**Thermal Management Technology**

DENSO has fulfilled its responsibility to supply products while constantly evolving the manufacturing processes, safety, and performance. The Group has advanced automated production lines, standardized from design to process, and manufactured for zero intermediary inventories. As products for thermal management systems become more diverse, we are shifting from the mass production of standard products to the small-lot production of many varieties of products, and further evolving our manufacturing structure into one that does not depend on volume.

**Global Network**

Since the establishment of DENSO (Thailand) Co., Ltd. in 1972, the Thermal Systems Business Group has addressed the needs of customers around the world through nine technical centers and more than 90 production bases in 26 countries. We will tackle new issues with customers in the CASE era while using our network built up by over 50 years.

**Business Strategy for Future Growth**

DENSO is developing markets for its thermal management systems while cornering the market during the BEV proliferation phase by meeting the diverse needs of automakers for heat pump systems.

**Outcome of Green and Peace of Mind Strategy**

- **Objectives**
  - Finish thermal management system strategy for future growth, expand market by increasing sales of heat pump systems
  - Bring to market air quality products that offer peace of mind in indoor environments
  - Maximize the use of their experiences and knowledge in special improvement activities led by senior personnel

- **Results**
  - The Company’s heat pump systems have been adopted by automakers in Japan and around the world, including for Mitsubishi Motors’ Outlander and Renault’s Meganne models, while solving problems from the vehicle development phase. We also defined the product lines and technologies needed to solve heat-related issues we identified in BEVs. We formulated strategies while exploring theoretical solutions with cutting-edge development partners, including Toyota Motor and other automakers.
  - DENSO introduced on the market air cleaning equipment for buses and taxis to satisfy needs for higher air quality due to the pandemic. In addition to automakers, we obtained feedback from end-users and will use this information to expand our products that offer peace of mind.
  - Contributing to a more pleasant society for the earth and its people by solving heat-related issues faced in a mobility society

**Efforts toward Quality**

DENSO aims for a fresh start in true quality through concurrent engineering that integrates processes from design to manufacturing with DX, and to improve gate management on a global basis, going beyond product quality to encompass work quality throughout the entire process, from initial flow to mass production.

**Resolving Social Issues through Our Businesses**

- Addressing new needs.
- Enhancing response to diversifying BEV market.
- Contributing to the proliferation of BEVs with thermal management systems.
- Achieving high efficiency with the heat pump system.
- Enhancing response to diversifying BEV market.

**Specific Initiatives to Achieve Strategic Aims**

**Expanding Sales of Thermal Management Systems**

DENSO is developing markets for its thermal management systems by solving heat-related issues in BEVs with automakers by proposing a wide range of products and systems. As a recent achievement, our high-efficiency eco heat pump system, a world-first product, was adopted in Toyota Motor’s BZ4X model and Subaru’s Solterra model in 2022. We aim to expand sales for BEVs around the world.

**Enhancing Response to Diversifying BEV Market**

In August 2021, DENSO turned Chongqing Chaoli Electric Appliance Co., Ltd. into a consolidated subsidiary in order to accelerate its growth strategy. In addition to reinforcing our product lineup and supply structure, we are expanding our points of contact with customers, including local automakers in China and emerging automakers from other industries, and strengthening operations in China, a leading market for BEVs, while addressing new needs.
DENSO has honed its human capital, intellectual assets, and a global production structure by overcoming numerous obstacles with automakers around the world. Using these strengths, we provide an extensive portfolio of products to automakers while refining our CASE-related technologies, moving the world one step closer to a safe and secure mobility society that is better for the environment.

DENSO is reinforcing its competitiveness in Monozukuri with a lean and flexible structure that features digital-twin processes with DX and automation on both the software and hardware fronts. In order to eliminate traffic accidents while ensuring freedom of the vehicle, DENSO is improving its competitiveness while building an optimal global supply structure able to respond to sharp growth in production volume of electronic products amid advances in CASE technologies.

- Integrated electronic platform that leads to greater value in “green” and “peace of mind” fields: Development of electronic platforms that facilitate optimized actions among applications
- Strengthening Software Business and Hitozukuri
  - DENSO balances the development of human resources (Hitozukuri) on the cutting edge of change with business growth in the software field.
  - We are introducing initial development model incorporating cutting-edge IT in software development methodologies accumulated in automotive products.
  - We are greatly strengthening our human resources, organizations, and corporate culture by establishing a systematic management cycle and career development process, which was implemented in fiscal 2022.

Global Safety Package 3
Helping Improve Safety Performance of Vehicles with Millimeter-wave Radar and Vision Sensors
We developed Global Safety Package 3 as an accident prevention system and launched it in fiscal 2022.

- Global Safety Package is a system that assists drivers with a combination of millimeter-wave radar sensors that detect the position and speed of vehicles and objects on the road and vision sensors that use cameras to observe conditions in front of the vehicle.

- In order to eliminate traffic accidents while ensuring freedom of movement, it is important to develop products with attractive prices while further advancing safety products with cutting-edge technologies, and then deploying these products in as many vehicles as possible. Global Safety Package 3 realizes both compactness and low costs, while expanding assistance scenarios through the use of cutting-edge technologies, such as AI.

- We are developing technologies with the objective of ensuring safe freedom of movement for drivers, pedestrians, and everyone else in the world.

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ADVANCED DEVICES

Creating and growing businesses that solve issues faced by society and customers beyond the mobility domain

As a company reorganized to go beyond technologies and focus more on helping society and our customers, we are 1) collaborating on the sensing and actuation fronts, and 2) enhancing the value of systems through semiconductors that leverage our strengths derived from vertical integration. While creating new devices and systems, we aim to win the trust of our customers with an all-points approach to quality, cost, and delivery (QCD) in the expanding electrification market.

Business Strengths

- **Creation of New Value with Sensing and Actuation**

  Within the business group, our core technologies in actuation (i.e., hands and legs) and sensing (i.e., eyes) to create nimble concepts, enabling the development of “great-if-possible” solutions for issues faced by our customers.

- **On-Site Capabilities That Support Production Technologies Highly Resistant to Changes in Specifications and Volumes in New Product Development**

  DENSO is broadening the scope of applications for new product domains where it is competitive, thanks to human resource development and handpicked young employees. DENSO leverages digital twin technology and collaborative robots to build a production system that can be optimally organized and configured by changing production line shapes and locations in accordance with fluctuations in volumes for new products.

Business Strategy for 2022

DENSO contributes to the creation and proliferation of the next generation of mobility solutions by building robust supply chains and improving its internal production of mechatronics and semiconductors. At the same time, we are using and deploying core technologies in non-automotive fields, such as agriculture and factory automation, to address issues related to carbon neutrality, labor shortages, and an aging society.

<table>
<thead>
<tr>
<th>Objective</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expand lineup of individual products and advance entire projects in the CASE domain</td>
<td>Made steady progress toward commercialization by promoting new product concepts for the fields of electrification and safety</td>
</tr>
<tr>
<td>Reduce investments in products for internal combustion engines</td>
<td>Avoided major investments while gaining understanding of customers in contracting businesses for products used in internal combustion engines</td>
</tr>
<tr>
<td>Accelerate activities at head office and Group companies to reduce CO2 emissions at plants</td>
<td>Began to shape up plans for conserving and creating energy at the Hino Plant and DENSO HOKUSADO CORPORATION</td>
</tr>
</tbody>
</table>

Efforts toward Quality

We are taking steps to ascertain quality-related risks that cannot be understood based on a product’s required specifications alone by running simulations of how customers use our products and considering customer perspectives. We are also building quality into our highly reproducible product design and manufacturing processes at Group bases in Japan and around the world, in order to ensure equal quality in all of our products globally. All of us are working diligently to get a fresh start on quality by preventing quality-related risks from materializing and never forgetting our “Customer First” approach.

Specific Initiatives to Achieve Strategic Aims Collaborative Production in Automotive Power Semiconductors

In April 2022, in order to meet growing demand for automotive semiconductors amid the rapid development and proliferation of electric vehicles, DENSO signed an agreement to collaborate on the production of power semiconductors at the 300-mm wafer plant operated by United Semiconductor Japan (USJC), the Japanese subsidiary of United Microelectronics Corporation, a leading chip foundry. Through this partnership, DENSO aims to produce high-performance power semiconductors with high cost efficiency by combining USJC’s 300-mm wafer production technologies with DENSO’s system-oriented IGBT device and process technologies, with plans to launch IGBT production on 300-mm wafers in the first half of 2023. This initiative was selected by the Ministry of Economy, Trade and Industry for subsidies to cover the costs of projects for decarbonizing and upgrading production facilities for semiconductors essential to supply chains. This initiative aligns with the government’s strategy to reinforce the production of semiconductors in Japan, and will contribute to the electrification of vehicles through the reliable procurement of power semiconductors that are essential in electrification efforts.

Contributing to Improvements in the Practicality of Electric Vehicles

DENSO has successfully developed and mass-produced the world’s first high-efficiency cooling water control valve (MCV-e) as a prime example of the efficient control and use of thermal energy. Reducing energy consumption can result in longer driving distances for electric vehicles, shorter recharging times, and lower system costs. Our products including a new electrical current sensor, featuring a 40% smaller size with better current detection accuracy for detecting the discharge and charge current in batteries, have been adopted by Toyota Motor in its bZ4X model and by Subaru in its Solterra model. Our next-generation power modules with SiC diodes and SiC transistors are 30% smaller in volume and reduce power loss by 70% compared with previous products. These power modules have also been adopted by Toyota Motor for its new MIRAI model. We will continue efforts to offer products that help realize a carbon-free society.
Enabling the productivity of the Monozukuri industry and improving quality of life

Our mission in the Industrial Solutions Business Unit is to realize carbon-neutral Monozukuri (manufacturing) from the perspective of “green,” and to build a society that expands human potential from the perspective of “peace of mind.” Guided by this mission, we will work to earnestly address the Monozukuri-related issues facing our customers, providing them with solution packages that resolve such issues in a manner that best suits their needs. By doing so, we will make significant contributions to industrial and social progress.

Business Strategy for 2022

In addition to lean automation, DENSO is commercializing eco-friendly Monozukuri. We strive for balance between business growth in non-automotive fields and the business principles for lean and clean Monozukuri.

Growth Strategy

With the aim of spreading lean automation, we are working closely with our customers to come up with ideas for flexible and lean automation, including getting involved in process engineering. We are also utilizing open platforms co-created with partners and scaling up business by leaving behind the idea of being self-sufficient.

R&D

DENSO is concentrating on the development of next-generation technologies to realize clean and lean Monozukuri based on carbon neutrality, digital-twin plants, and collaborative robots to address serious issues faced by the manufacturing industry. The Company is accelerating industry-government-academia activities to further spread DENSO’s concept of next-generation plants.

Monozukuri

Leveraging its strengths in factory automation equipment and facilities provided by the Industrial Solutions Business Unit (e.g., products that are thoroughly proven, improved, and refined with DENSO’s Global 130 Plant concept; and then delivered to customers), DENSO is improving productivity while being in touch with customer needs and always providing high-quality production assets.

Hitozukuri

DENSO develops a broad spectrum of human resources adopt in digital technologies that are essential for next-generation manufacturing, such as digital-twin and open platforms, as well as human resources that excel in providing solutions (code engineers) and are able to precisely propose ideas that combine know-how with technologies owned by DENSO to solve issues faced by customers.

Outcomes of Green and Peace of Mind Strategy

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<tr>
<td>Spread awareness of lean automation around the world (15 companies)</td>
<td>Inside the plants of 15 customers that took our courses on lean automation, we together achieved several improvements in operations based on the concept and skill sets of lean automation.</td>
</tr>
<tr>
<td>Increase partners for co-creation of open platforms (60 companies)</td>
<td>We agreed to co-create an open platform with 47 partner companies that share our concept of lean automation and solutions to rationalize plants.</td>
</tr>
</tbody>
</table>

Efforts toward Quality

In the Industrial Solutions Business Unit, when DENSO commercializes production assets that have supported its “Quality First” approach to the automotive business, we build in quality in the facilities desired by our customers (shorter preparation time, stable operations soon after launching mass production, ability to maintain conditions, easy-to-use facilities). DENSO is driving improvements in productivity across the manufacturing industry with its production assets, thoroughly refined via on-site verification and iterative improvements.

Specific Initiatives to Achieve Strategic Aims

Initiatives to Spread Lean Automation

Needs are constantly increasing for rapidly ramping up production and the manufacture of diverse types of products in various volumes in domains where labor plays a large role, such as assembly inspection and logistics, as a means to reduce CO2 emissions from plants and to address labor shortages in an aging population.

DENSO has developed and begun selling solutions for rationalizing plants with DX-CELL* and other products that have been expanded for enabling lean automation. In fiscal 2023, the Company accelerated activities to propose improvements across a broader spectrum of operations, and added to its lineup a newly developed robot called COBOTTA PRO that boosts productivity while working alongside people. We are also actively engaged in industry-government-academia partnerships to spread DENSO’s concept of lean automation.

* DX-CELL is a robot universal mount platform able to flexibly adapt to variable-volume production of different types of products with modular additions, including by third parties, thereby facilitating the rapid change of precisely automated production lines using DX tools.

Resolving Social Issues through Our Businesses

Aiming to Resolve Regional Issues by Collecting Data on QR Code Usage

DENSO has provided QR code solutions that match diverse customer needs in the railway, retail/wholesale, and hotel industries. By using the collected QR code data more universally, we intend to expand services to new domains and applications. For example, DENSO is cooperating with companies in Tendo City, Yamagata Prefecture (JMC Tendo Onsen Co. and Yamako Bus Corporation) to promote the creation of attractive tourist destinations. Together, we tested the “Gururi” Tendo City bus route to improve accessibility to tourist spots and enhance transportation convenience. With DENSO’s QR code application, DENSO and “Tendo City can gather data on tourists’ travel history, i.e., when and where they traveled and for what purpose, and use this data to increase the efficiency of tours while satisfying the needs of tourists.

DENSO is helping to revitalize regional activities through the visualization of a broader range of data on people’s movements, including restaurants, hotels and shopping, through the use of QR codes.

Officer and Manager Hitozukuri

Katsuhiro Shimokawa
Head of Industrial Solutions Business Unit

Using our high-quality, highly durable facilities that have been refined on auto part production lines, as well as our core factory automation equipment, such as robots and sensors, we are playing a role in improving productivity throughout the manufacturing industry and society at large while spreading our reach from stand-alone equipment to processes and modules.

Business Strengths

Production Assets Thoroughly Refined at Manufacturing Sites and Global 130 Plant

Using our high-quality, highly durable facilities that have been refined on auto part production lines, as well as our core factory automation equipment, such as robots and sensors, we are playing a role in improving productivity throughout the manufacturing industry and society at large while spreading our reach from stand-alone equipment to processes and modules.

Monozukuri Know-How That Has Supported DENSO Products for More Than 70 Years

DENSO solves serious issues directly affecting the manufacturing industry, such as labor shortages, carbon neutrality and DX, with its know-how in flexible andlean manufacturing and lean automation technologies.

Safe and Secure Solutions for Society Using QR Codes Developed by DENSO

DENSO creates value for new domains and applications by incorporating outside ideas for using QR codes and QR code reader technologies that have been evolving since 2000 and which have become an international standard (ISO/IEC 18004).

People working alongside COBOTTA PRO

DX-CELL facilitates variable-volume production of different types of products

• This robot works, thinks, and moves on its own, automating work that could only be done by hand.
• Saves space by making safety cages unnecessary, as robot moves on its own, automating work that could only be done by hand.
• Able to work with prototypes, small-lot production, mass production, and produc–
tion withstands all sorts of weather.
• Can be deployed at necessary times, only with a software update.
FOOD VALUE CHAIN

Combining technologies and ideas to provide new value and contribute to a society where all people can live safely and with peace of mind.

Food is essential to human life. Together with our business partners, while observing the entire food value chain, we will provide solutions that deliver food safety and security to each region of the world, anytime, anywhere, and to anyone, forever.

Business Strategy for 2022

While eyeing a sustainable society able to produce and transport food needed around the world, DENSO is creating optimal and advanced solutions with its proprietary technologies to resolve social issues in the food value chain.

In the agricultural production business, along with greenhouse business partner Certhon Build B.V., DENSO is developing businesses in innovative greenhouses that leverage its automation technologies, while adapting to social needs in each region. In Japan, we are stepping up efforts to stimulate local industry with greenhouse가야 to reliably produce agricultural products with workers of all skill levels.

In logistics-related businesses, working with partners, DENSO is creating new solutions that leverage its strengths in chiller technologies for newly emerging types of logistics for small-lot deliveries that require temperature management, an area where demand is likely to expand along with the e-commerce market.

Utilizing DX in food distribution, we aim to create a distribution system that increases the efficiency of supply chains while ensuring traceability to safely and securely deliver food to consumers. Working with our partners, we are testing prototypes in actual markets while moving to introduce the system in the future.

Business Strengths

Greenhouses That Ensure Reliable Harvests While Dealing with Labor Shortages and Climate Change

By applying our Monozukuri technologies gained with automobiles to agricultural production, we are supporting technologies that condition environments for reliably harvesting agricultural products. We introduce automation technologies to create environments where people can move around easily, and globally supply solutions for greenhouses in a highly productive way that sustains growth.

High-Quality, Versatile Chillers for Vehicles That Help Deal with Driver Shortages and Delivery Diversification

Since the launch of operations for automotive chillers in 1972, DENSO has sold more than 200,000 chiller units, focusing on high-quality, high-efficiency Monozukuri. In addition to chillers for trucks, which come in many variations, we offer compact mobile chillers that can be remotely used for deliveries by regular drivers in passenger cars for small-lot deliveries that have diversified in recent years.

New Distribution DX Solutions for Changing Needs in Food Distribution

Utilizing the QR code and RFID technologies we accumulated with automobiles, we are digitizing diverse information related to food in order to visualize food distribution information from production to sale, in response to consumer needs for safe and secure food. We also offer a straight-through food distribution platform that facilitates supply-demand optimization in inefficient distribution operations and righteousness inventories.

Outcomes of Green and Peace of Mind Strategy

Objectives

Win orders for greenhouses in Japan

Commence trials of compact mobile chillers for markets other than parcel delivery

Commence market trials of DR traceability system

Expected Results

Proposed solutions combining optimal products tailored to customer needs and obtained orders from agricultural producers

Win orders from food companies

Finished market trials with partners for increasing distribution efficiency

Efforts toward Quality

We will realize optimized levels of quality and service in the field of horticultural facilities, drawing on the quality control methods that we have cultivated for many years in our automotive businesses. In addition, with the aim of ensuring the stable supply of safe food throughout the entire food value chain, we will collaborate with other companies within all processes from food production through to distribution and consumption to establish the necessary quality control methods for maximizing the value we offer to customers.

Specific Initiatives to Achieve Strategic Aims

Contributing to Regional Revitalization with Local Governments for Carbon-Neutral Agriculture in Date City, Hokkaido, in a bid to revitalize the region through agriculture, DENSO constructed a newly developed multi-wing interconnected greenhouse for training workers and verification testing of a smart farm that uses IT. The greenhouse features an innovative forced-air ventilation system that creates uniform stable agricultural conditions within the greenhouse, and DX functions enable the rapid training of new farmworkers. Plans call for using natural energy in the greenhouse, such as wood pellets made from local resources. We plan to begin construction in the greenhouse in summer 2022 and start verification testing with vegetable production in the city from fiscal 2024.

Resolving Social Issues through Our Businesses

Contributing with Systems to Improve Local Agricultural Brands with local Governments

DENSO is working to improve the recognition of local agricultural brands; namely, short-spanned asari clams farmed in Kumamoto Prefecture. DENSO participates in Kumamoto Prefecture’s newly launched public-private organization, the Locally Farmed Asari Clam Value Chain Improvement Council, and is working on verification testing of innovative systems built for providing local production guarantees and traceability in production channels for asari clams.

Kumamoto Prefecture issues local production certificates for asari clams caught by local fishermen, and consumers can use QR codes to verify this certification, which facilitates the dissemination of information on locally produced foods in a proper manner. DENSO contributes to food safety and security by supporting the creation of traceability systems from production to sale.
Corporate Governance

Basic Stance
DENSO recognizes the establishment of corporate governance as a priority initiative for achieving sustainable long-term increases in corporate performance in a fast-changing global market. Based on its Basic Policies on Corporate Governance, DENSO has adopted a corporate auditor system under which it has established the General Meeting of Shareholders, Board of Directors, Audit & Supervisory Board, and Accounting Auditors as statutory bodies. In addition to these legal functions, the Company has established various governance-related frameworks. At the same time, the Company provides information regarding its business conditions to its shareholders and other investors on an ongoing basis, thereby implementing sound, efficient, and transparent management.

Evolution of Corporate Governance Structure
(Fiscal year)

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of officers</th>
<th>Number of members of the Board</th>
<th>Number of outside Board members</th>
<th>Number of female members of the Board</th>
<th>Number of Audit &amp; Supervisory Board members</th>
<th>Number of outside Audit &amp; Supervisory Board members</th>
<th>Number of female Audit &amp; Supervisory Board members</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>52</td>
<td>14</td>
<td>2</td>
<td>1</td>
<td>5</td>
<td>3</td>
<td>1</td>
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<tr>
<td>2016</td>
<td>50</td>
<td>13</td>
<td>2</td>
<td>1</td>
<td>5</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>2017</td>
<td>51</td>
<td>13</td>
<td>3</td>
<td>1</td>
<td>5</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>2018</td>
<td>53</td>
<td>9</td>
<td>3</td>
<td>1</td>
<td>5</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>2019</td>
<td>56</td>
<td>7</td>
<td>2</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>2020</td>
<td>28</td>
<td>8</td>
<td>3</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>2021</td>
<td>27</td>
<td>8</td>
<td>3</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>2022</td>
<td>25</td>
<td>8</td>
<td>3</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>2023</td>
<td>23</td>
<td>8</td>
<td>3</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

Efforts to Improve Corporate Governance
DENSO is working to evolve its corporate governance and enhance strategic discussions Companywide to realize sustainable increases in corporate value even amid a dramatically changing world. DENSO has implemented all of the principles of the Corporate Governance Code that was revised in June 2021. DENSO discloses in its Corporate Governance Report its sustainability initiatives and efforts to ensure diversity in core personnel.

Going forward, we will continue to implement sound, efficient, and transparent management including through the significant reduction of cross-shareholdings.

Please see the following URL for Basic Policies on Corporate Governance.
Corporate Governance System

DENSO has adopted a corporate governance system under which it has established the General Meeting of Shareholders, Board of Directors, Audit & Supervisory Board, and Accounting Auditors as statutory bodies. Through a vice president and corporate officer system that separates and clarifies the roles between members of the Board, who are responsible for management (decision-making and supervision), and senior executive officers, who are responsible for the execution of business operations, DENSO CORPORATION is streamlining the number of members of the Board and is realizing swift decision-making and business operations.

Under this system, depending on the circumstances, members of the Board serve concurrently as vice president and senior executive officer to ensure that the Board maintains an overall balance of knowledge, experience, and ability. DENSO CORPORATION sets the term of office for members of the Board at one year, with the aim of building a flexible management structure that responds to changes in the management environment and further clarifying management responsibility during the business year.

Reason for Selecting Our Current Corporate Governance System

In addition to performing management decision-making that emphasizes Genchi Denbutsu (on-site verification), DENSO believes that it is important to build a system that can verify whether management decision-making has met shareholder expectations and whether there is a problem from the point of view of governance. Accordingly, we believe that the current system to supervise and audit the execution of business duties by the Board of Directors including outside Board members, as well as Audit & Supervisory Board members including outside Audit & Supervisory Board members, is most suitable.

Corporate Governance System

Board of Directors

The Board of Directors resolves matters stipulated by laws and regulations, as well as matters of importance to the Company's decision-making. Where possible, the Board delegates authority to those in charge of business execution. This approach simultaneously accelerates execution and enables the Board to spend more time deliberating on management policies and strategies.

The Board of Directors meets once a month, in principle, and is composed of 12 members: six members of the Board (including three outside Board members), two inside Audit & Supervisory Board members, and two outside Audit & Supervisory Board members. With respect to the independence of outside Board members and outside Audit & Supervisory Board members, the Company has selected a total of five independent officers (three outside Board members and two outside Audit & Supervisory Board members) based on the assumption that they fulfill the independence criteria stipulated by the Financial Instruments and Exchange Act.

Resolutions must be approved by a majority of the members present at a Board of Directors' meeting, and the meeting must be attended by a majority of members of the Board. We have been enhancing our support structure for the outside officers to ensure the productive and efficient operation of the Board of Directors when making resolutions.

Support Structure for Outside Officers

When holding Board meetings, we provide outside Board members and outside Audit & Supervisory Board members with explanations on important agenda items before the meetings with the aim of ensuring access to information between the inside and outside officers and maximizing the performance of our outside officers. In this way, we make concerted efforts to ensure the efficient operation of Board meetings. Furthermore, discussions on medium- to long-term strategies are enhanced with the holding of the Executive Workshop that includes outside officers, as well as on-site visits, to deepen their understanding of operations.

In addition, we have established the Audit & Supervisory Board Office as an organization dedicated to supporting the Audit & Supervisory Board members in conducting their duties. The office reports the condition of audits at meetings of the Audit & Supervisory Board. Additionally, we hold meetings twice a year between the Audit & Supervisory Board members and the outside Board members to exchange opinions, in addition to regular meetings of the Independent Officer Meeting. Through these means, we are striving to actively provide information to our outside officers as well as improve communication between them.

Structure for Business Execution

DENSO CORPORATION separates the functions of the Board of Directors, which conducts management oversight, and the executive directors, who handle business execution.

As bodies for deliberating important matters pertaining to business execution, the Company has established the Management Strategy Meeting and the Management Deliberation Meeting. These two bodies, together with the Board of Directors, are positioned as executive committees.

Overview of Deliberating Bodies on Business Execution

I) Deliberating Bodies

<table>
<thead>
<tr>
<th>Management Strategy Meeting</th>
<th>Management Deliberation Meeting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chairperson</td>
<td>President</td>
</tr>
<tr>
<td>Composition</td>
<td>President, vice president, the heads of each business group and functional department, general managers, and Audit &amp; Supervisory Board members</td>
</tr>
<tr>
<td>Purpose</td>
<td>Hold strategic discussions from a medium- to long-term perspective, focused on businesses, functions, and regions</td>
</tr>
<tr>
<td>Number of meetings held in fiscal 2022</td>
<td>34 41</td>
</tr>
</tbody>
</table>

Management Oversight Function

Two inside Audit & Supervisory Board members and two outside Audit & Supervisory Board members with dedicated staff are responsible for monitoring the execution of duties by members of the Board as well as the business operations and financial conditions of the Group.

In accordance with in-house regulations, the Internal Audit Department conducts internal audits on the legality, validity, and efficiency of the Company's operations. Based on the issues pointed out in these audits, each department of the Company is working to establish and subsequently enhance operational control and management systems. Audit & Supervisory Board members attend important meetings including meetings of the Board of Directors and audit Board members’ execution of their business duties through the exchange of information with the Internal Audit Department and Internal Control Department, as well as with the Accounting Auditors, thereby fulfilling their management oversight function.

Analysis and Evaluation of the Effectiveness of the Board of Directors as a Whole

DENSO has all Board members take a survey involving an evaluation of the operation of the Board of Directors, the agenda items discussed, the process for making resolutions, and support for outside officers. The Company also holds interviews with the inside officers with the aim of obtaining the frank opinions of Board members regarding issues and areas in need of improvement. The results of these surveys and interviews are discussed by the outside officers at meetings of the Independent Officer Meeting. The issues and areas identified as needing improvement are reported to the Board of Directors and put through a PDCA cycle for planning and implementing improvement activities among meeting attendees. This helps enhance the effectiveness of the Board of Directors.
DENSO aims to improve the effectiveness of the Board of Directors by implementing improvement measures for the following issues in fiscal 2023.

### Issues and Improvement Measures for Fiscal 2023

**Fiscal 2022 Issues**
- Enhance the exchange of opinions during meetings held online.
- Support for outside officers: Enhance the understanding of DENSO's business through online observation.
- Share information on monthly business status, etc.
- Few comments made by people other than those designated by year.
- Eliminate information gap with inside members of the Board and Audit & Supervisory Board members.
- Deepen strategic discussions.
- Enhance ideas for improving corporate value.
- Enhance discussions and reporting from perspectives of stakeholders.

**Fiscal 2023 Measures for Improvement**
- Enhance and augment briefings prior to meetings of the Board of Directors.
- Continue and augment on-site tours and inspections.
- Disclose information about important matters in a timely manner (improve information sharing before Board of Directors’ meetings).
- Enhance reporting, explanations, and discussions outside of Board of Directors’ meetings (Independent Officer Meeting, etc.).
- Support understanding of businesses with ongoing and improved on-site tours and inspections.
- Conduct strategic discussions on agenda for Board of Directors’ meetings.
- Take advantage of opportunities outside of Board of Directors’ meetings to deepen strategic discussions (Executive Workshop, Independent Officer Meeting, etc.).
- Report on dialogues with wide range of stakeholders, including customers, suppliers, investors, and local communities, and enhance dialogues from multiple angles.

### Composition of Executive Nomination and Remuneration Council

**Chair**
- Shigeki Kushida Independent Outside Board Member

**Members**
- Kiy Arima President & CEO, Representative Member of the Board
- Shingo Kawai External Audit & Supervisory Board Member
- Yuko Mitsuoka Independent Outside Board Member
- Joseph P. Schmelzeis, Jr. Independent Outside Board Member

### Activities of Executive Nomination and Remuneration Council

- First meeting: Compensation amounts for fiscal 2022, bonus amounts for fiscal 2021.
- Second meeting: Compensation amounts for fiscal 2022, bonus amounts for fiscal 2023, succession plans for outside officers, changes to officer compensation.
- Third meeting: Structure of Executive Nomination and Remuneration Council.
- Fourth meeting: Succession plans for outside officers and the CEO.
- Fifth meeting: Skill matrix, succession plan for CEO.
- Sixth meeting: Change in officer system in January 2022, skill matrix, succession plans for officers.
- Seventh meeting: Reforms to officer compensation system.
- Eighth meeting: Change in officer system in June 2022, reformation to officer compensation system.
- Ninth meeting: Change in officers in April 2023.

### Approach to Balance and Diversity among Members of the Board and Audit & Supervisory Board Members

The Board of Directors consists of members who are familiar with the management of each business and its pressing issues. The composition of the Board strikes a balance between experience, expertise, skills, and global perspectives, including those of the outside Board members. For the Audit & Supervisory Board, the Company selects persons who possess knowledge related to not only business management but also finance, accounting, and law. In this way, the Company aims to achieve a balance between diverse opinions and secure the necessary level of expertise to ensure that the Board of Directors functions properly.

### CEO Succession Plan

DENSO regards succession planning for the CEO as one of its most important management issues, and the Executive Nomination and Remuneration Council is leading the search for its next CEO. A majority of members and the chair of DENSO’s Executive Nomination and Remuneration Council are independent outside Board members, and also include Audit & Supervisory Board members. This composition offers greater diversity, impartiality, and fairness.

The Executive Nomination and Remuneration Council defines the prerequisites for CEO desired by DENSO while considering changes in the business environment. Ongoing discussions regarding the search for the best successor cover various information about the candidates and related assessments, which are conducted by people inside and outside the Company, such as their past achievements and work histories, personality, and suitability for management positions. In addition, for COO positions and below, DENSO identifies candidates for the succession of key management posts inside and outside Japan and groups these candidates from medium- and long-term perspectives.

### Outside Board Members and Outside Audit & Supervisory Board Members

**Outside Board Members**

- Shigeki Kushida: A strong balance between business understanding, experience, and global perspectives. He currently serves in multiple executive positions, including President and CEO, representing the Board of Directors.
- Yuko Mitsuoka: Has an abundance of experience and knowledge in many fields, having been in management at several corporations and associations and exploring the posts of officer and committee member at several sports associations. He currently serves in such positions as Outside Director, The Fukui Bank, Ltd., Outside Director (Audit and Supervisory Committee Member), ENDO Holdings, Inc., and President, Japan Basketball Association. The Company has appointed him as an Outside Board Member in the expectation that he will continue to apply his broad expertise in the global business environment in the Company’s management.
- Joseph P. Schmelzeis, Jr.: Has a wealth of experience in management, particularly in the service industry, including SEGA CORPORATION, as well as in venture business start-ups and strategic consulting. He has worked to strengthen the U.S.-Japan alliance as Senior Advisor, U.S. Ambassador to Tokyo. He currently serves as Executive Manager at Cattlefield Goto-Kaiga. The Company has appointed him as an Outside Board Member in the expectation that he will reflect in the Company’s management his abundant business experience and knowledge of geopolitics.

**Outside Audit & Supervisory Board Members**

**Message**

DENSO’s Value Creation Story

Overview by Product

Corporate Governance

Corporate Data

### Policy and Procedures for the Appointment of Members of the Board and Audit & Supervisory Board Members

<table>
<thead>
<tr>
<th>Policy</th>
<th>Procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without consideration of gender or age, nominate members of the Board and Audit &amp; Supervisory Board members with an emphasis on diversity, including gender and internationality, and from the viewpoint of striking a balance between experience, skills, and expertise so as to promote accurate and swift decision-making.</td>
<td>1. The president and relevant members of the Board select candidates based on various perspectives and select suitable candidates to serve as a member of the Board of Directors, comprehensively taking into account their background, personality, insight, and other factors. The Executive Nomination and Remuneration Council, which is chaired by an independent outside Board member and also has a majority of independent outside Board members serving as its members, then holds debate on these candidates and lists the candidates for selection for the current fiscal year.</td>
</tr>
<tr>
<td></td>
<td>2. Members of the Board are selected based on an informal resolution by the Board of Directors and deliberation at the General Meeting of Shareholders.</td>
</tr>
</tbody>
</table>
Compensation for non-executive members of the Board and outside Board members consists of only basic compensation (fixed amount) from the standpoint of ensuring impartiality. Compensation for Audit & Supervisory Board members also comprises only basic compensation (fixed amount) in light of their roles and responsibilities as auditors in charge of compliance audits.

Compensation Levels

For the evaluation of members of the Board and Audit & Supervisory Board members, the Compensation Committee comprehensively evaluates individual performance linked to the attainment of corporate earnings, for determining performance-linked compensation.

Basic Policy

- Achieve medium- to long-term enhancement of corporate value and management from the perspective of shareholders
- Incentivize eligible members of the Board to enhance business performance by linking the Company's performance with individual performance
- Determine fixed compensation and performance-linked compensation, as a whole, in keeping with the Company’s medium- to long-term objectives.

Key Revisions to Policy for Determining Remuneration

1. Eligible members of the Board are eligible to receive compensation based on individual performance.
2. Performance-linked compensation has been introduced as a new component of compensation.
3. Performance-linked compensation shall be determined by taking into account the achievement of individual performance indicators.

Indicators and Evaluation Methods

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Base Weighting</th>
<th>Evaluation Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consolidated operating profit</td>
<td>70%</td>
<td>Evaluation based on degree of achievement of fiscal year targets</td>
</tr>
<tr>
<td>ROIC</td>
<td>30%</td>
<td>Evaluation based on degree of achievement of fiscal year targets</td>
</tr>
<tr>
<td>Sustainability score</td>
<td>10%</td>
<td>Evaluation based on overall achievement of fiscal year targets for addressing the following priority issues in the Company’s sustainability management: (1) Workplace safety, (2) quality, (3) total CO2 emissions, (4) information security, (5) employee engagement, (6) expansion of ‘green’ and ‘peace of mind’ products, and (7) diversity and inclusion (promotion of foreign and female employees)</td>
</tr>
</tbody>
</table>

Matters Regarding Share-Based Compensation

DENSO has introduced a share-based compensation system with restrictions on transfer with the objective of enhancing incentives to increase corporate value over the medium to long term and share value with shareholders.

Eligible persons

- Members of the Board of Directors (including non-executive members of the Board and outside Board members)
- Denso Corporation employees

Transfer restriction period

- Determined by the Board of Directors based on the proposal of corporate governance activities and in consideration of the Company’s strategic business plans.

Condition 1 for removal of transfer restrictions

- Restrictions will be removed after the expiration of the transfer restriction period.

Condition 2 for removal of transfer restrictions

- If the proposal for restructuring the Company—such as a merger agreement whereby the Company will be an absorbed subsidiary of another company—is approved by the Company’s General Meeting of Shareholders, the transfer restriction of the allotted shares will be removed.

Method for Calculating Performance-Linked Compensation

Consolidated operating profit, ROIC, and sustainability score are the metrics used to calculate performance-linked compensation with the aim of establishing links to corporate earnings and incentivizing members of the Board to increase earnings and sustain growth. The score weighting and evaluation method for each metric is shown below. Targets for each fiscal year, the basis of these evaluations, are set each year based on medium- to long-term objectives.

Performance-linked compensation amounts are calculated within a range of ±20% of total annual compensation based on assessments of individual performance as related to earnings, achievements, and medium- to long-term initiatives.
The Executive Nomination and Remuneration Council, on which independent outside Board members form a majority, deliberates and determines individual compensation amounts based on multiple angles, including conformance with the Company’s policy for determining remuneration. The Board of Directors has determined that the council’s decisions are in accordance with the policy for determining remuneration.

Compensation for Audit & Supervisory Board members is determined through a consensus of members and set within the total amount approved by resolution at the General Meeting of Shareholders.

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### Method for Determining Compensation

DENSO established the Executive Nomination and Remuneration Council, chaired by an independent outside Board member and whereby independent outside Board members form a majority, in order to ensure impartiality, fairness, and transparency in Board member compensation.

The Board of Directors has passed a resolution on the total amount of compensation for the current fiscal year and a resolution to entrust decisions on individual compensation to the Executive Nomination and Remuneration Council. The Executive Nomination and Remuneration Council examines the officer compensation system and decides individual compensation amounts based on corporate earnings, the position of each member of the Board, and their performance.

### Total Amount of Compensation by Board Member Classification

<table>
<thead>
<tr>
<th>Type of Compensation</th>
<th>Members of the Board</th>
<th>Share-Based Compensation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic compensation</td>
<td>No more than ¥1 billion annually (including no more than ¥150 million for outside Board members)</td>
<td>No more than ¥200 million annually</td>
</tr>
<tr>
<td>Bonus</td>
<td>No more than ¥240 million annually</td>
<td>No more than ¥300 million annually</td>
</tr>
</tbody>
</table>

### Notes

1. The figures above include four Board members (Members of the Board Yasushi Yamanaka, Hiroyuki Wakabayashi, and Sadahiro Usui, and Audit & Supervisory Board member Atsuhiko Shimmura) who retired as of the conclusion of the 98th Ordinary General Meeting of Shareholders held on June 22, 2021.
2. Operating profit was ¥341.2 billion in fiscal 2022, the year used to calculate performance-linked compensation.

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### Strategic Shareholdings

**Basic Stance**

To maintain and improve corporate value over the long term in a fast-changing global market, it is essential that we collaborate with outside parties, including promoting joint technological development with various other companies and maintaining strategic business relationships with business partners. To that end, we hold the minimum number of strategic shareholdings necessary for our business strategies. DENSO is keen to reduce low-earning assets and adopts the basic policy of not owning strategic shareholdings unless it is deemed logical to own such shareholdings.

**Details of Examination to Determine the Appropriateness of Strategic Shareholdings**

Every year, the Board of Directors comprehensively determines the appropriateness of cross-shareholdings by examining the management significance of holding each individual stock, including in terms of promoting joint development and strengthening business collaboration, as well as whether the return on holding said stock (dividend payments, increased share prices, relevant business profit, etc.) is greater than the Company’s weighted average cost of capital. The Company takes steps to reduce the number of cross-shareholdings in the event that the continued holding of such shares is no longer deemed rational through the above process.

**For example, at DENSO CORPORATION, we have established a Business Ethics Hotline in accordance with Japan’s Whistleblower Protection Act that allows anonymous reporting; independent from the normal chain of command; and is administered by outside attorneys and the Business Ethics Hotline Secretariat. This hotline can be used by all persons working at DENSO CORPORATION and domestic Group companies, including employees, temporary employees, and employees contracted from other companies, in addition to suppliers. In fiscal 2022, the hotline received 103 consultations and reports regarding matters such as employment, labor, work environment, information management, business transactions, and accounting, all of which were addressed appropriately after staff investigated the situation and confirmed the facts.**

For the sharing of strategic shareholdings, the total number of stocks for which the number of shares rose is due to the acquisition of shares necessary for business strategies toward realizing the Group’s sustainable growth.

### Strategic Shareholdings

**Basic Stance**

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Sustained Improvement in Corporate Value

Transparent and Diverse Governance and Sustained Improvement in Corporate Value

Fiscal 2022 was a major turning point for corporate governance reforms at DENSO. We had an open discussion with outside Board members Shigeki Kushida and Yuko Mitsuya about their take on the Company’s initiatives and future issues.

Dialogue with the Outside Board Members

Shigeki Kushida
Outside Board Member
Mr. Kushida has been serving as an outside Board member at the Company since 2019. He also serves as president and representative executive officer at Japan Securities Finance Co., Ltd., and has experience working at the Bank of Japan.

Yuko Mitsuya
Outside Board Member
Ms. Mitsuya has been serving as an outside Board member at the Company since 2019. She also serves as a representative director of SORAI Corporation and has a long history in the sports world.

Significance of Disclosing the Skill Matrix

Kushida
DENSO is a company that has worked diligently to reform corporate governance. As a company with an Audit & Supervisory Board, DENSO strictly complies with the requirements of the Corporate Governance Code, separating business supervision and execution and emphasizing monitoring functions. For example, the Executive Nomination and Remuneration Council was initially an advisory body when it was established in 2016, but it was upgraded to a decision-making body in 2021, thereby giving more power to the opinions of independent outside Board members.

Mitsuya
When I look at DENSO, I am impressed with its constant use of the PDCA cycle. Measures that did not work as anticipated after a year are changed without hesitation. At meetings of the Board of Directors, our opinions have more weight. This is what makes DENSO truly great, and indicates that the Company already had the groundwork laid for governance before adopting the Corporate Governance Code.

With that said, I believe the Company still has some work to do in terms of separating supervision from business execution, in light of global standards.

Kushida
The Company has recently disclosed the skill matrix of its members of the Board, and this is significant for two reasons:

First, the skill matrix expresses what the Company desires for skill sets on the entire Board of Directors. In the manufacturing industry, knowledge of manufacturing is usually an important trait for managers to have, so the Board of Directors tends to have members with experience on the business execution side. On the other hand, outside Board members are expected to have knowledge about corporate management, governance, finance, accounting, and human resources.

Second, disclosing the skill matrix is a way to fill in any gaps between the way that management and investors think about the composition of the Board of Directors. I believe this is a dynamic area of thought that is influenced by changes around the world.

Mitsuya
Ensuring diversity on the Board of Directors is also an important topic, but it is difficult to gain insight on diversity with only a skill matrix. To be appointed as an outside Board member, a candidate needs to have sufficient experience and be of a certain age, and such appointments tend to go to candidates with equal qualifications but hail from a different industry. In recent years, candidates are expected to have a market-oriented perspective of the external business environment, and due to the emergence of electric vehicles, the conventional wisdom for manufacturing cars has been undergoing a change. In order to rapidly respond to such changes, the Board of Directors needs a more fundamental type of diversity that goes beyond the advancement of women and foreign nationals, in my opinion.

Two Aims of Revising Board Member Compensation

Kushida
One major aim of the revisions to the officer compensation system is to enhance incentives for inside members of the Board and focus their attention on medium to long-term corporate value.

In order to enhance incentives, the ratio of basic compensation in overall remuneration has been reduced to 40%–50%, while the ratio of performance-linked compensation is being increased. The ratio of compensation based on individual performance evaluations is also being expanded to ±20%.

For assessing corporate performance, the Company has introduced ROIC and sustainability scores as new metrics to complement consolidated operating profit. The addition of ROIC as a metric underscores management’s emphasis on capital efficiency. There is also an ESG element to the new system. This compensation system is designed to sustain growth in corporate value while being aware of the various stakeholders involved.

Mitsuya
When I first saw the proposed changes, I thought they were sweeping changes. The strict evaluation system means that compensation can change dramatically based on results, and the addition of a non-financial metric is a radical move. The Company is asking for more than usual from its Board members. I believe it is a drastic move in the context of the business environment in Japan.

Kushida
For this compensation system to work, it is important to get everyone on board. It will be necessary for management to share and visualize achievements and targets, and diligently review the results.

Mid-term Policy for 2025 Following Reborn21

Kushida
Initiatives under Reborn21, were a precious opportunity to reassess current conditions in addition to quality issues. For example, DENSO must make an effort to improve management efficiency when making major
I look forward to seeing more results from DENSO’s human resource strategy for hiring and training personnel.

**Kushida**

Looking ahead, growth at DENSO will be driven by people who are aware of problems and have an optimistic outlook for the future. It is important to train people who can take advantage of this transformative period as a once-in-a-century opportunity, and to create organizations that allow these people to freely take on new challenges.

**Mitsuya**

DENSO is a supporter of various sports, and there is meaning here as well. Through sports, athletes around the world brighten the spirits of people by always taking on challenges. I believe this will have important implications for DENSO’s human resource development.

**Toward a New Stage of Corporate Governance**

**Kushida**

New technologies cannot become a reality through technological potential alone. For example, there are many factors in play that affect the viability of self-driving cars, such as roads (infrastructure), transportation rules (laws), and people’s awareness of traffic safety. Making self-driving cars a reality means that various changes must be made in society. Automakers and auto parts makers need to pay attention to external trends, and proactively increase their partners as a prerequisite to improving their corporate value.

**Mitsuya**

Effective knowledge and great ideas often come from the outside. Instead of relying on other people to peer outside for knowledge and ideas, it is important for each and every employee to build their own networks of relationships. Such efforts help people themselves grow and contribute to the maximization of corporate value.

I think that DENSO can occasionally be a little too serious about this point. It is not necessary for DENSO to go out of its way to be considerate to outside officers. Why not take advantage of the extensive knowledge and networks of outside officers? I think DENSO should not hesitate to use all of our knowledge.

**Kushida**

DENSO’s corporate governance has entered a new stage where it can actively explore the shape of management and corporate governance that will lead to future growth. Here, it is important to have more discourse internally and externally without reservation. I think that everyone should take advantage of opportunities to communicate more and be more proactive in DENSO’s head office.

**Message from the New Outside Board Member**

I will draw on my diverse experience that spans across various regions, industries, and government institutions to contribute to DENSO from new perspectives.

**Joseph P. Schmelzeis, Jr.**

Outside Board Member

After serving in such positions as corporate director at SEGA SAMMY HOLDINGS INC. and senior advisor to the ambassador at the U.S. Embassy in Tokyo, Mr. Schmelzeis currently works as executive manager at Cedarfield Godo Kaisha. He was appointed as outside board member of DENSO in 2022.

**Supporting DENSO’s Innovative and Effective Corporate Governance**

I was appointed as outside board member of DENSO at the Ordinary General Meeting of Shareholders held in June 2022. With its various innovations and superior technologies, DENSO has consistently stood at the leading edge of the automotive industry. At the same time, DENSO has staked its claim in various regions across the globe, building strong trust-based relationships with a broad range of shareholders. By doing so, I believe DENSO has carved out a unique position that will allow it to turn the dramatic changes in the operating environment of the global automotive industry into new business opportunities.

**DENSO** is a Japanese company with a long history in Japan, its corporate governance is extremely innovative. At meetings of the Board of Directors, open and constructive dialogue is held among all of the members of the Board, including the three outside Board members. In addition, DENSO makes various considerations on behalf of the outside Board members, including holding meetings for only the outside Board members that help us enhance our objectivity and enable us to exchange opinions in a more straightforward manner. DENSO understands the importance of external input in enhancing the objectivity of management decision-making, and I have seen how the Company truly tries to learn from the advice that we provide. I therefore commend DENSO for proactively adopting a corporate governance structure that distinguishes itself from companies where corporate governance is treated merely as a formality.

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**Understanding What Is Needed in the Evolution of the Automotive Industry**

My first experience with Japan was 46 years ago, when I came to the country with my family from the United States. I was 13 at that time. After attending high school in Japan, I returned to the U.S. to attend Yale University. However, my first experience in the working world was also in Japan, when I took part in an internship. Since then, I have spent a total of 36 years living and working in Japan, while traveling back and forth between Japan and overseas.

My career has been in industries and domains that are of a very different nature than the traditional automotive industry. Starting with management consulting, I have worked in a wide range of positions throughout my career, from establishing IT venture companies to serving in the service industry and financial industry and even in government institutions. Through this experience, I have engaged in countless business discussions and negotiations. Both as a businessperson and as a senior advisor to the ambassador at the U.S. Embassy in Tokyo, I have served as a bridge between Japan and the United States as well as between Japan and China. Drawing on my unique work experience and personal network, I hope to introduce new perspectives into the management decision-making of DENSO.

The automotive industry is currently undergoing a paradigm shift, as evidenced by the CASE revolution. With companies from IT and other industries making an entry into the automotive industry one after the other, there is a need for new ideas that are not constrained by traditional approaches. To that end, promoting diversity, which can bring about a genuine transformation, plays a crucial role in responding to these kinds of changes in the external environment and evolving in a way that best suits the new era in which we find ourselves. Although Japan’s homogeneity has provided the country with a prominent strength, Japanese society is likely to become more open in terms of such aspects as gender, nationality, and work history going forward. I therefore intend to make every effort to support DENSO as it takes on a leading role with the transition into a new era. By doing so, I will endeavor to meet the expectations of the Company’s shareholders and other investors.
Members of the Board and Audit & Supervisory Board Members

(As of June 21, 2022)

Members of the Board

President & CEO, Representative Member of the Board

Koji Arima

Date of Birth: February 13, 1958
1983Joined Hitachi, Ltd.
1985 Joined DENSO CORPORATION
2008 Executive Director, DENSO CORPORATION
2016 Senior Executive Director, DENSO CORPORATION
2021 Member of the Board and Senior Executive Officer, DENSO CORPORATION

Member of the Board

Kenichiro Ita

Date of Birth: October 1, 1960
1986 Joined DENSO CORPORATION
2012 Executive Director, DENSO CORPORATION
2016 Senior Executive Director, DENSO CORPORATION
2021 Member of the Board and Senior Executive Officer (current position)

Member of the Board

Yasushi Matsui

Date of Birth: July 5, 1962
1987Joined DENSO CORPORATION
2016 Executive Director, DENSO CORPORATION
2021 Member of the Board and Senior Executive Officer, DENSO CORPORATION

Outside Board Member

Shigeki Kushida

Date of Birth: June 19, 1961
1981 Joined Bank of Japan
1986 Joined Toyota Motor Corporation
2000 Member of the Board of Directors, Toyota Motor Corporation
2003 Board Director, Toyota Motor Corporation
2005 Senior Managing Director, Toyota Motor Corporation
2005 Executive Vice President, Toyota Motor Corporation
2005 Outside Member of the Audit & Supervisory Board

Outside Board Member

Yuko Mitsuoya

Date of Birth: July 29, 1960
1983Joined Bank of Japan
1989Joined Toyota Motor Corporation
2007 Representative Director, FLY It Co., Ltd.
2011 Outside Audit & Supervisory Board Member, Branch Office, AICOS Corporation
2015 Outside Director, Fujita Kako Inc.
2015 Outside Director, Pivole Co., Ltd.
2016 President, Japan Basketball Association (current position)
2018 Representative Director, KOMA Corporation (current position)

Outside Board Member

Joseph P. Schmitz, Jr.

Date of Birth: November 2, 1962
1984 Joined the Marine Corps
1986 Joined Marine Corps Reserve
1992 First Lieutenant, U.S. Marine Corps Reserve
1993 Chief Operating Officer, Foothills International
1999Yamato EDX Corporation President
2001 Representative Director, JPS International, Inc. (current position)
2011 Corporate Director, Division Manager, SECA CORPORATION
2015 Senior Advisor, SECA SAMMY HOLDINGS INC.

Executive Vice President, Representative Member of the Board

Yukihiko Shinhara

Date of Birth: March 19, 1960
1981 Joined DENSO CORPORATION
2016 Executive Director, DENSO CORPORATION
2018 Senior Executive Director, DENSO CORPORATION
2021 Member of the Board and Senior Executive Officer, DENSO CORPORATION (current position)

Audit & Supervisory Board Members

Standing Audit & Supervisory Board Member

Shingo Kuwamura

Date of Birth: August 14, 1965
1992 Joined DENSO CORPORATION
2006 Executive Director, DENSO CORPORATION
2017 Senior Executive Director, DENSO CORPORATION
2018 Senior Executive Officer, DENSO CORPORATION
2021 Standing Audit & Supervisory Board Member, DENSO CORPORATION (current position)

Outside Audit & Supervisory Board Member

Yasuko Goto

Date of Birth: February 19, 1948
1978 Joined Mitsubishi Motor Corporation
1979 Head, New York Office, Japan National Tourism Organization
1990 Vice President, Nagoya Shimbun Center
2004 Director, Regional Transport Bureau of Hokkaido and Sapporo, Ministry of Land, Infrastructure, Transport and Tourism (MLIT)
2013 President, Policy Management Institute for Land, Infrastructure, Transport and Tourism (MLIT)
2021 Vice President, Japan Olympic Committee (current position)

Outside Audit & Supervisory Board Member

Haruo Kitamura

Date of Birth: August 28, 1957
1981 Joined the Ministry of Transport
2004 Head, New York Office, Japan National Tourism Organization
2005 Director, Regional Transport Bureau of Hokkaido and Sapporo, Ministry of Land, Infrastructure, Transport and Tourism (MLIT)
2006 Supervisory Director, MID REIT, Inc.
2007 Outside Director, Sumisho Grainger Co., Ltd.
2008 Outside Corporate Auditor, Yamaha Corporation
2009 Outside Director, Representative Executive Officer & President, TOYOTA BOSHOKU CORPORATION (current position)

Independent Officer

Koji Arima

Date of Birth: February 13, 1958
1983 Joined Hitachi, Ltd.

Yusuke Ishii

Date of Birth: November 3, 1959
1982 Joined DENSO CORPORATION
1985 Joined DENSO CORPORATION

Yumiko Ito

Date of Birth: July 3, 1964
1982 Joined DENSO CORPORATION

Akihito Watanabe

Date of Birth: August 21, 1961
1984Joined Bank of Japan
1987 Certified Public Accountant
2002 Chief, Kitamura Certified Public Accountant Office (current position)
2006 Outside Audit & Supervisory Board Member, MID REIT, Inc.
2007 Outside Director, Sumisho Grainger Co., Ltd.
2008 Outside Corporate Auditor, Yamaha Corporation

Experience and Specializations (Skill Matrix) of Members of the Board and Audit & Supervisory Board Members

DENSO has defined 11 areas of experience and specialization necessary to realize its Long-term Policy for 2030 and sustain stable corporate management. The areas of specialization that the Company expects each member to demonstrate are as shown in the table below.

<table>
<thead>
<tr>
<th>Name</th>
<th>Corporate Governance</th>
<th>Digital</th>
<th>Marketing</th>
<th>Environmental</th>
<th>Overseas</th>
<th>Global</th>
<th>Finance/Accounting</th>
<th>Human Resources</th>
<th>Technological Development</th>
<th>Production/Quality</th>
<th>Sales/Procurement</th>
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<tbody>
<tr>
<td>Koji Arima</td>
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<td>Akihito Watanabe</td>
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* As of June 2022
Risk Management

Basic Stance
To minimize the impact of constantly diversifying risks, DENSO is working to strengthen its risk management structure as a part of internal control. Specifically, we have divided matters that have the potential to damage our businesses into “risks,” which refer to circumstances where such matters have yet to manifest, and “crises,” which refer to states of emergency, where such matters have manifested. Based on these classifications, we are focusing our efforts on implementing preventive measures, while managing risks they occur, and swift and accurate initial response and recovery measures, which minimize damage in the event a crisis occurs.

Promotion Structure
DENSO has established the Risk Management Meeting, chaired by the chief risk officer (CRO), who is responsible for Group-wide risk management. The Risk Management Meeting is a Group-wide organization that confirms improvements to the Company’s risk management structure and framework and discusses and determines the direction of important risk management activities based on the conditions and trends both inside and outside the Company. Through this organization, we are taking steps to strengthen measures to prevent damage to our businesses during normal times and measures to minimize damage during times of emergency.

In addition, we have created the Crisis Communication Manual in order to respond promptly and accurately in the event of a crisis. Depending on the severity and level of urgency of the situation, we assemble special countermachine organizations to enact an agile response geared toward minimizing damage.

Ascertaining Risks and Clarifying Response
DENSO makes efforts to constantly ascertain the risks it faces and manage these risks from the perspectives of damage mitigation and business continuity.

The Company has identified major risk items related to life, credit, property, and business activities based on frequency of occurrence, level of impact, and the surrounding business environment. The Company designates responsible departments for each item and clarifies various factors pertaining to these items, including level of impact, reason for occurrence, preventive measures, initial response, and recovery efforts. The Company also strives to enhance its preventive measures, initial response, and recovery efforts. In particular, DENSO is identifying risks toward which it invests resources to promote countermeasures as “key risk items.” The Company has also established plans and targets toward further enhancing its crisis management, and the progress made toward these plans and targets is reported to the Risk Management Meeting. At the same time, DENSO has been incorporating risk management into Group-wide targets, and the status of risk management activities is now also confirmed by the Board of Directors.

Additionally, for fiscal 2023 the Company has determined 41 major risk items and 10 key risk items. DENSO reviews these major risk and key risk items appropriately, giving consideration to the issues currently facing society as well as the frequency of risks occurring at DENSO and the level of impact they have on the Company.

Recently, DENSO has been facing a variety of risks the likes of which it had previously never experienced. Since 2019, we have been dealing with the fallout from the quality-related issues which has impacted the trust our customers place in us and has shaken our management foundation. Additionally, risks stemming from the external environment, such as the COVID-19 pandemic, tight supply-demand for production materials, and cyberattacks, have had a major impact on our business activities.

In light of these circumstances, we have once again recognized risk management as an important management issue. Going forward, we will pursue dramatic reforms to our risk management structure in order to strengthen our response capabilities.

Examples of Response to Key Risks
Risk Prevention and Responses to Risk Events
 Corporations have been facing an increasing number of serious risks recently. For example, in addition to the progression of global warming, there are concerns over the frequent occurrence and greater severity of natural disasters caused by climate change. Furthermore, we are currently seeing a surge in unprecedented risks, such as shortages of semiconductors and other important components, as well as logistics disruptions, as the pandemic has not fully subsided, in addition to rising geopolitical risks and incidents.

Strongening Our Response to Quality Risks
Establishing an Unwavering, Robust Business Foundation Based on the “Customer First” Principle
Having encountered one of our largest-ever quality problems in 2019, we unified together in Companywide efforts to reform our knowledge, awareness, and corporate culture under the slogan “recommit to quality.” We updated our systems across the Company, led by quality experts in each core technology field, nurtured a corporate culture that puts quality first, and improved our track record on quality. We also improved our corporate structure, slimming it down into a leaner form. With the aim of establishing an unwavering, robust business foundation as stated in our Mid-term Policy for 2025, we are moving forward with bold reforms with a “Customer First” perspective.

Response to Tight Supply–Demand Conditions for Semiconductors
With no sign of improvement in semiconductor supply shortages, current conditions are likely to persist for a while. To minimize supply risk, DENSO is working closely with suppliers to prevent such incidents from ever occurring while managing risks at hand. For example, high-risk inventories are not stored in a single location, and instead they are distributed in multiple locations to reduce the risk. Additionally, we are advancing digitalization within the semiconductor supply chain. In order to secure sufficient supplies, we are working to forecast risks from a broad range of perspectives, including contract conditions and adherence to laws and regulations, formulate relevant rules, and establish a structure to appropriately manage and operate these assets.

Addressing Risk of Increasingly Sophisticated Cyberattacks and Preparing for Digitalization
At DENSO, Group companies in North America and Europe confirmed that they were subject to cyberattacks that gained access to the company’s database in fiscal 2020. Determined to prevent such incidents from ever occurring again, we are utilizing our efforts to prevent a recurrence by 3) re-training and thoroughly drilling each and every employee about basic operations in order to change their awareness of cybersecurity, 2) strengthening global systems for detecting threats and monitoring systems by deploying the latest technologies, including AI; and 3) double-checking the security of our systems with the help of external entities, in addition to a comprehensive inspection of key servers and equipment.

Along with advances in self-driving cars and IT, addressing cyber risks in cars and production facilities has become an extremely important issue. To that extent, we are developing technologies that protect in-vehicle products, such as advanced driver support and automated driving systems, from cyberattacks to ensure that people can drive cars safely and with peace of mind. In 2023, DENSO will be establishing a unique framework for ensuring that such technologies are steadily installed in vehicles. Furthermore, we are reinforcing security measures toward plant networks, production lines, and other facilities.

Additionally, we are advancing digitalization within the Company, and this will increase the quality and speed of work by allowing various information to be delivered to and used by employees the instant they need it. To ensure we do not infringe upon the rights and interests of the information provider, we are working to forecast risks from a broad range of perspectives, including contract conditions and adherence to laws and regulations, formulate relevant rules, and establish a structure to appropriately manage and operate these assets.

Examples of Initiatives
• We are accelerating the development of fundamental quality-related technologies in fields such as advanced safety, while aiming to become carbon neutral and realize our principles (i.e., “green” and “peace of mind”) in our Companywide systems for quality management.

• We are using tools to improve quality in upstream development while identifying areas of concern for quality by using specification data for newly developed products and AI as well as our accumulated technical knowledge.

• We are improving our corporate culture by making small team activities more effective, implementing improvements at production sites, and by increasing the involvement of managers and section chiefs in on-site activities.
Compliance

Basic Stance
We believe that key actions to earn the trust and understanding of society pertain to the DENSO Group’s observance of all applicable national and regional laws and employees’ fair and faithful conduct that embodies the highest ethical standards.

Based on this recognition, in 2006 we adopted the Code of Conduct for DENSO Group Associates, which clearly indicates the standards of conduct for each and every employee. In training and at workplace conferences, we utilize the Code for raising employees’ awareness of compliance, which includes all domestic Group companies. Overseas Group companies use a regional version of the Code of Conduct for DENSO Group Associates, formulated by their regional headquarters in accordance with national and regional laws and customs.

Promotion Structure
In 1997, DENSO created a Business Ethics and Compliance Committee chaired by a member of the Board to provide oversight in that area (currently the Risk Management Meeting). We have also installed committee structures, such as the Compliance Committee, and compliance promotion officers, such as compliance leaders, at the regional headquarters of each region of our collective global base. In doing so, we are building global systems that promote compliance, while at the same time promoting the development of organizational structures that take differing regional characteristics into consideration, introducing and operating reporting systems, and pursuing enlightenment activities.

Specific Initiatives

Educational and Enlightenment Activities
DENSO implements various educational and enlightenment activities for employees on an ongoing basis with the aim of enhancing their overall awareness of compliance matters.

In Japan, we carry out educational and enlightenment activities for employees on an ongoing basis with the aim of enhancing their overall awareness of compliance matters. Enhancing employees’ awareness of compliance, which includes all domestic Group companies. Overseas Group companies use a regional version of the Code of Conduct for DENSO Group Associates, formulated by their regional headquarters in accordance with national and regional laws and customs.

Inspection and Improvement of Activities
DENSO conducts inspections to ascertain whether its compliance structure, and engages in tax planning while addressing tax-related risks when they materialize. DENSO has established the Global Tax Policy. Under this policy, we actively engage in activities for tax compliance on a Groupwide basis, such as providing training for employees and abiding by rules for cross-border transactions.

Fiscal 2022 Taxes by Region (¥ trillion)

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<thead>
<tr>
<th>Region</th>
<th>Tax amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Japan</td>
<td>13.5</td>
</tr>
<tr>
<td>North America</td>
<td>3.0</td>
</tr>
<tr>
<td>Europe</td>
<td>2.3</td>
</tr>
<tr>
<td>Asia/Oceania</td>
<td>39.2</td>
</tr>
<tr>
<td>Other regions</td>
<td>2.8</td>
</tr>
<tr>
<td>Total</td>
<td>61.6</td>
</tr>
</tbody>
</table>


Response to Antitrust Laws
In February 2010, the U.S.-based subsidiary DENSO International America was investigated by the U.S. Department of Justice. Since then, we have established the Antitrust Laws Compliance Committee, chaired by the representative member of the Board. Under the guidance and supervision of this committee, we have endeavored to reinstitute strict compliance with the Antitrust Laws across the entire DENSO Group. These efforts have included ensuring strict adherence to laws and regulations, strengthening education about relevant rules, and conducting more precise audits regarding legal compliance.

Response to Anti-Bribery Laws
DENSO formulated the Global Anti-Bribery Policy to serve as its basic approach to preventing bribery. At the same time, the Company established the Compliance and Anti-Bribery Committee, which is chaired by a relevant Company member of the Board. This committee takes the lead and provides supervision on the formulation of bribery prevention rules and the promotion of employee awareness and education measures through e-learning. We also have Sustainability Guidelines for Suppliers in place to prevent bribery between suppliers and third parties. In these ways, we are working to thoroughly prevent bribery throughout the supply chain.

Response to Tax Compliance
DENSO believes that paying its fair share of taxes is a part of being socially responsible. The Member of the Board and CFO has been designated as the person in charge of tax governance. The Company has built, maintained, and improves a tax compliance structure, and engages in tax planning while addressing tax-related risks when they materialize. DENSO has established the Global Tax Policy. Under this policy, we actively engage in activities for tax compliance on a Groupwide basis, such as providing training for employees and abiding by rules for cross-border transactions.

Financial Highlights

<table>
<thead>
<tr>
<th>Revenue / Operating Profit / Operating Margin</th>
<th>(Billions of yen)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating profit margin</td>
<td>2022: 8.1%</td>
</tr>
<tr>
<td>Operating profit</td>
<td>2022: 3.1%</td>
</tr>
</tbody>
</table>

Non-Financial Highlights

| CO2 Emissions (Global, Scope 1 + Scope 2 Emissions) (10,000 t-CO2) |
|---------------------------------------------------------------|-----------------|
| Emissions in fiscal 2022                                      | 190.6           |

Amount of Renewable Energy Introduced (Non-Consolidated) (MWh)

| Number of patents held in Japan over (left scale) |
|--------------------------------------------------|-----------------|
| Number of patents filed in Japan and overseas (right scale) |

No. of patents held in Japan (left scale)

No. of patents filed in Japan and overseas (right scale)

Number of female employees in management positions

Ratio of female employees in management positions (left scale)

DENSO is promoting initiatives as a global scale to realize a working environment and organisational culture that enables active and fulfilling roles for diverse human resources in terms of gender, gender identity, sexual orientation, age, national origin, religion, and disabilities as well as in terms of various differences such as experience and role systems. With regard to the topmost priority in fiscal 2022, we adopted the strategy of appointing diverse women to leadership positions to foster a diverse and inclusive organisation. Going forward, we will strive to engage in such efforts as established committees between female employees during team meetings and other female employee and diversity training for supervisors.
## 10-Year Data

### Japanese GAAP

<table>
<thead>
<tr>
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<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue (Total)</td>
<td>4,574.5</td>
<td>4,857.7</td>
<td>5,108.3</td>
<td>5,382.8</td>
<td>5,533.5</td>
<td>5,396.7</td>
<td>5,513.5</td>
<td>5,413.5</td>
<td></td>
</tr>
<tr>
<td>By Region*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Japan</td>
<td>1,808.9</td>
<td>1,890.5</td>
<td>1,978.1</td>
<td>2,140.7</td>
<td>2,310.0</td>
<td>2,284.2</td>
<td>2,214.0</td>
<td>2,375.7</td>
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</tr>
<tr>
<td>North America</td>
<td>625.0</td>
<td>790.4</td>
<td>942.3</td>
<td>1,081.1</td>
<td>1,050.5</td>
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<td>1,182.0</td>
<td>1,145.2</td>
<td>999.9</td>
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<tr>
<td>Europe</td>
<td>348.8</td>
<td>470.5</td>
<td>524.8</td>
<td>568.2</td>
<td>550.2</td>
<td>620.2</td>
<td>600.4</td>
<td>548.0</td>
<td>482.3</td>
</tr>
<tr>
<td>Others</td>
<td>63.8</td>
<td>74.1</td>
<td>73.5</td>
<td>101.6</td>
<td>98.5</td>
<td>114.0</td>
<td>121.5</td>
<td>1,086.9</td>
<td>1,134.1</td>
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<tr>
<td>By Customer</td>
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<tr>
<td>OEM</td>
<td>3,220.0</td>
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<td>4,061.8</td>
<td>4,521.4</td>
<td>4,762.3</td>
<td>4,658.7</td>
<td>4,347.0</td>
</tr>
<tr>
<td>Non-Financial</td>
<td>507.5</td>
<td>435.7</td>
<td>447.2</td>
<td>476.6</td>
<td>350.3</td>
<td>473.9</td>
<td>550.2</td>
<td>465.4</td>
<td>854.2</td>
</tr>
<tr>
<td>Total Assets</td>
<td>3,979.1</td>
<td>4,642.1</td>
<td>5,283.3</td>
<td>5,042.9</td>
<td>5,150.8</td>
<td>5,764.4</td>
<td>5,792.4</td>
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<td>331.4</td>
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<td>412.7</td>
<td>316.2</td>
<td>61.1</td>
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### IFRS

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### Non-Financial Data

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</thead>
<tbody>
<tr>
<td>Number of Employees</td>
<td>132,276</td>
<td>139,842</td>
<td>146,714</td>
<td>151,755</td>
<td>154,493</td>
<td>168,813</td>
<td>171,932</td>
<td>170,932</td>
<td>168,391</td>
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<tr>
<td>Local</td>
<td>67,525</td>
<td>74,289</td>
<td>81,060</td>
<td>85,664</td>
<td>86,852</td>
<td>94,209</td>
<td>95,222</td>
<td>93,343</td>
<td>89,124</td>
</tr>
<tr>
<td>Non-Consolidated</td>
<td>38,385</td>
<td>38,581</td>
<td>38,826</td>
<td>38,483</td>
<td>38,581</td>
<td>33,315</td>
<td>33,315</td>
<td>45,320</td>
<td>45,320</td>
</tr>
<tr>
<td>Ratio of Female Employees (Non-Consolidated)</td>
<td>11.4%</td>
<td>11.6%</td>
<td>11.9%</td>
<td>12.3%</td>
<td>12.7%</td>
<td>13.1%</td>
<td>13.3%</td>
<td>14.2%</td>
<td>14.6%</td>
</tr>
</tbody>
</table>

### Exchange Rate (during FY)

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</tr>
</thead>
<tbody>
<tr>
<td>USD (yen)</td>
<td>83</td>
<td>100</td>
<td>110</td>
<td>120</td>
<td>130</td>
<td>110</td>
<td>110</td>
<td>109</td>
<td>106</td>
</tr>
<tr>
<td>EUR (yen)</td>
<td>107</td>
<td>124</td>
<td>136</td>
<td>147</td>
<td>158</td>
<td>170</td>
<td>181</td>
<td>192</td>
<td>203</td>
</tr>
<tr>
<td>Chinese yuan (yen)</td>
<td>11</td>
<td>13</td>
<td>16</td>
<td>17</td>
<td>17</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
</tr>
</tbody>
</table>

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* The countries and regions included in "by region" have changed as follows. Fiscal 2013–fiscal 2015: Japan, North America, Europe, Australia, and Others; fiscal 2016–fiscal 2018: Japan, North America, Europe, Asia, and Others.

* CO2 emissions from fiscal 2019 onward have been calculated based on the Basic Guidelines on Accounting for Total Greenhouse Gas Emissions. In addition, from fiscal 2022, we have been reflecting the portion of emissions offset by the use of carbon credits in our calculations.
Company Overview and Stock Information
(As of March 31, 2022)

Company Profile

Company Name: DENSO CORPORATION
Established: December 16, 1940
Capital: ¥187.5 billion
Head Office: 1-1, Showa-cho, Kariya, Aichi 448-8661, Japan
Employees: Consolidated basis: 167,950
Consolidated Subsidiaries: 198 (Japan 63, North America 21, Europe 27, Asia 80, Others 7)
Companies Accounted for by the Equity Method: 84 (Japan 23, North America 11, Europe 17, Asia 25, Others 4)
Fiscal Year: From April 1 to March 31
Ordinary General Meeting of Shareholders: June
Share Trading Unit: 100 shares
Number of Shares Issued: 763,361,955 shares (excluding DENSO CORPORATION owning 24,582,996 shares of treasury stock)
Number of Shareholders: 78,114 (including DENSO CORPORATION owning treasury stock)
Securities Identification Code: 6902
Stock Exchange Listings: Tokyo, Nagoya

Principal Shareholders (Top 10 Principal Shareholders)

| Number of Shares Held | Voting share
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Toyota Motor Corporation</td>
<td>188,979,637</td>
</tr>
<tr>
<td>The Mitsubishi Trust Bank of Japan, Ltd. (Trust account)</td>
<td>98,655,600</td>
</tr>
<tr>
<td>Toyota Industries Corporation</td>
<td>69,373,000</td>
</tr>
<tr>
<td>Geiken Bank of Japan, Ltd. (Trust account)</td>
<td>34,166,500</td>
</tr>
<tr>
<td>Towa Bank Co., Ltd.</td>
<td>33,307,330</td>
</tr>
<tr>
<td>Nippon Life Insurance Company (Standing proxy: The Mitsubishi Trust Bank of Japan, Ltd. Trust account)</td>
<td>21,664,630</td>
</tr>
<tr>
<td>DENSO Employees’ Shareholding Association</td>
<td>12,500,000</td>
</tr>
<tr>
<td>Aisin Corporation</td>
<td>12,500,000</td>
</tr>
<tr>
<td>USD: JPY - WST CL: JPY - TREATY SD523 1.3 (Standing proxy: Settlement &amp; Clearing Services Department, Mochi Bank, Ltd.)</td>
<td>7,384,890</td>
</tr>
<tr>
<td>SOB FIN CL: GRINER ACCOUNT (Standing proxy: Toyo Drugs, The Rongqing and Shanghai Banking Corporation Limited)</td>
<td>7,924,050</td>
</tr>
</tbody>
</table>

Breakdown of Shareholders

Individually and Others: 72.0%
Domestic Corporations: 31.1%
Domestic Financial Institutions: 19.3%
Domestic Securities Companies: 40.6%

Trend in TSR*

* Total shareholder return: Total return on investment that combines capital gains and dividends

Stock Price Range and Trading Volume (Tokyo Stock Exchange)

Overview of DENSO’s Corporate Website

Message from the Integrated Report Production Team
Thank you for reading Integrated Report 2022. We hope that this report has helped you gain an understanding of the value creation process that DENSO has adopted, centered on maximizing the value of “green” and “peace of mind.” Going forward, to ensure we can create corporate value together with our stakeholders, we will continue to promote IR activities such as timely and appropriate information disclosure and dialogue with all those who make use of this report.