Amid 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 carrying out a scenario analysis regarding the impact of climate change on our businesses and the opportunities and risks related to this impact. We have also been examining ways to reflect the results of this analysis in our business strategies. In this section, we introduce the status of the initiatives we are promoting in accordance with the TCFD.

Scenario Analysis of Business Opportunities and Risks

To understand the impact of climate change on our businesses and to identify climate-related opportunities and risks, we referenced 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 mediumto long-term strategies to hypothesize comprehensive scenarios. Upon doing so, we were able to identify climate-related opportunities and risks by analyzing the differences between our mediumto long-term strategies and these scenarios.

Hypothesizing Scenarios

In terms of transition risk, we have defined the Beyond 2 Degrees Scenario (B2DS) and the Sustainable Development Scenario (SDS) of the IEA's 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 (xEV) introduction by 2040, and analyzed opportunities and risks based on the differences between these scenarios and Group strategies. Also, with regard to physical risks, we have defined the RCP8.5 and RCP6.0 scenarios of the Fifth Report of the IPCC as "stagnant" and "promotion" scenarios, respectively. We visualized aspects such as weather disasters, rising sea levels, deteriorating eco systems, and water and food shortages in a qualitative manner and analyzed opportunities and risks based on the differences between these scenarios and Group strategies.

Analysis of Climate-related Opportunities and Risks

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 businesses of over ¥10.0 billion were identified as key items and categorized into opportunities and risks. In our business strategies and financial strategies, we will incorporate measures that address these opportunities and risks, thereby simultaneously tackling social issues and enhancing our corporate value. Major opportunities and risks identified through the aforementioned analysis are as follows.

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

Major Opportunities

Key items	Timeframe / Level of impact	Major potential financial impact	Financial impact (fiscal 2026)	Response measures	Response cost (fiscal 2023)
Development of new products and services through R&D and techno- logical innovation	Medium- term / High	Increase in revenue due to higher demand for xEVs Rise in demand for inverters and thermal products related to electrification and for technologies such as heat pumps that improve the heat efficiency of xEVs	¥360.0 billion	Accelerate the development of technologies related to electrification—including power-saving technologies and compact high-output technologies—as well as the development of heat management technologies Promote the development of engine control systems and other technologies that respond to alternative fuel (e-fuel, hydrogen, etc.)	¥90.0 billion
Diversification of business activities	Long-term / Medium	Increase in revenue following higher demand for decarbonization technologies Creation of business opportunities in such non-automotive fields as agricultural technology (AgTech) and factory automation (FA) by applying environmental technologies fostered in the automotive field and development of new technologies (energy utilization technologies) to capture, store, and recycle CO ₂	AgTech and FA, etc. ¥300.0 billion (FY2031) Energy utilization ¥300.0 billion (FY2036)	Create technologies such as AgTech that leverage sensor, control, and robot technologies and create energy utilization technologies, such as those that leverage exhaust gas purification technologies Actively use business alliances	¥17.0 billion
Utilization of more effective production and logistics processes	Medium- term / Relatively high	Reduced energy costs through the promotion of energy conservation at plants worldwide If we promote enhanced energy efficiency and are able to achieve our target under Eco Vision 2025 of reducing the amount of energy used per unit by half compared with fiscal 2013, we could achieve a CO ₂ emissions reduction of approximately 1.65 million tons per year and reduce energy costs.	¥73.0 billion	Continue rigorous energy-saving activities; adopt low- carbon materials, equipment, and production pro- cesses; enhance production process efficiency through the introduction of Factory-loī; and promote the devel- opment of energy-saving production technologies	¥9.0 billion

Major Risks

Key items	Timeframe / Level of impact	Major potential financial impact	Financial impact (fiscal 2026)	Response measures	Response cost (fiscal 2023)
New controls and regu- lations placed on our existing products and services	Long-term / Relatively high	Decline in revenue against the backdrop of increasingly strict regulations on fuel efficiency and exhaust gas We expect even tighter regulations on fuel efficiency as well as acceleration in the transition to xEVs, including HEVs (comprising 47% of all vehicles in 2030). Non-compliance with regulations resulting from an inability to adapt to changes could cause a decline in unit sales.	¥400.0 billion	Accelerate the development of energy-saving technologies for products powered by electricity with a view to extending driving distance Accelerate development aimed at enhancing fuel efficiency of internal comb	¥88.0 billion
Increased severity and occurrence of abnormal weather such as typhoons and floods	Long-term / Relatively high	Decline in revenue due to suspended plant operations and supply chain disruptions Revenue could decline due to damage to in-house plants or supply chain interruptions that result in a suspension of plant operations in Japan and greater Asia, where we conduct 66% of our overall production and where the possibility of abnormal weather occurring is high.	¥110.0 billion	Implement measures to mitigate the impact of disasters on buildings, etc., and strengthen risk management in the supply chain through such measures as ensuring multiple suppliers for components Connect our plants across the globe by using IT and IoT and establish a global production structure that can immediately respond to changing production needs	¥9.0 billion
Carbon pricing mechanism	Medium- term / High	Decline in cost competitiveness due to the accelerated introduction of carbon pricing Carbon costs could be added to all in-vehicle products due to the expansion and increasing strictness of international regulations, such as carbon taxes and emissions trading systems.	¥12.0 billion	Strategically and incrementally transition to renewable energy in manufacturing activities Continue to promote activities to conserve energy and enhance energy efficiency in the production process	¥3.0 billion



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 opportunities and risks expected to occur by 2030 will have on our product development and production activities, particularly the trend toward carbon neutrality.

Based on this understanding, we have set ourselves the ambitious target of becoming carbon neutral—a much more challenging environmental target than we previously undertook—and we have reflected this target in management strategies.

Specifically, we have added the perspective of carbon neutrality to our CO2 reduction plans under Eco Vision 2025, the Company's environmental management policy formulated in 2016. For our Monozukuri activities, we have adopted the target of realizing carbon-neutral electricity by fiscal 2026 (carbon credits to be used with respect to gas) and becoming completely carbon neutral, including gas, by fiscal 2036. To achieve this target, we will continue to promote energy-saving activities, an area in which we excel as a company. At the same time, we will introduce electricity derived from high-quality renewable energy that is optimally economic and utilize carbon credits, among other initiatives. To accelerate investments toward these kinds of efforts to reduce CO2 emissions, including energy conservation and renewable energy, we have introduced internal carbon pricing (ICP) within our investment decision-making approach.

For mobility products, we are working to reduce CO₂ emissions to the greatest extent possible by promoting the development of electrification technologies. Furthermore, we are working to achieve negative CO₂ emissions through the establishment of technologies to capture, recycle, store, and reuse CO2. Through these efforts, we will aim to achieve carbon neutrality across all of society. Moreover, to balance contributions to the environment with business growth, we are holding reqular discussions on reshuffling our business portfolio based not only on profitability and growth potential but also on CO2 emissions and the reduction of these emissions and are promoting reshuffling efforts accordingly. (Message from the Chief Financial Officer P.66-73)

We launched an expert team within the Safety, Health &Environment Division to serve as a structure for steadily promoting our carbon neutral strategy. At the same time, we have established the Environment Neutral Systems Development Division and the Energy Solution Development Division (previously the FC System Business Development Division) in a Companywide effort to realize carbon-neutral manufacturing, encompassing carbon neutrality throughout all processes through to the production activities at our plants.

Meanwhile, to respond to physical risks such as floods, which are increasing in frequency due to climate change, we are carrying out disaster mitigation measures at plants (including buildings and structures) and ensuring multiple suppliers for components and other materials so that we can minimize the risk of suspended operations due to damage at plants or disruptions in the supply chain. For additional support, we are introducing F-IoT platforms. Through such efforts, we will build a global production and supply structure that can immediately respond to production fluctuations caused by weather disasters or other adverse events.



Please see the following URL for more information on DENSO's Eco Vision 2025.

https://www.denso.com/global/en/csr/environment-report/ management/ecovision/ecovision/



Impact on Financial Planning

Given the trend toward carbon neutrality, we must further enhance electric vehicle components and transition to components compatible with such alternative fuels as hydrogen fuel and biofuel. Furthermore, in order to realize carbon-neutral Monozukuri, we need to allocate funds to procure electricity derived from renewable energy sources and purchase CO2 offset certificates and carbon credits.

To that end, in our financial planning, we have reflected an increase in R&D costs related to electrification, which will follow the expansion of products powered by electricity, and products that respond to alternative fuel needs. We have also reflected costs related to the introduction of renewable energy.

In addition, we have incorporated costs related to measures to address climate change risks (reinforcing buildings and structures), such as tornadoes, floods, and other abnormal weather events that are becoming ever more frequent and more severe.

Governance

DENSO has established the Companywide Safety, Health, and Environment Committee, which shares short-, medium-, and long-term targets set with the aim of realizing the Eco Vision 2025 environmental management policy. The committee also shares the issues and progress of activities related to the environment in general, including the results of scenario analysis, and issues instructions on measures to be taken. Chaired by the executive vice president, the committee convenes twice a year. Matters deemed to significantly affect businesses, such as medium-term management strategies and major investments, are discussed at meetings of the Management Deliberation Meeting or the Board of Directors.

In particular, with respect to carbon neutrality initiatives, the Board of Directors determines the Company's targets. Based on these targets, the Strategy Deliberation Meeting and the Executive Workshop deliberate on medium- and long-term policies and strategies, while the Annual Plan Meeting deliberates on short-term policies, targets, and plans. Progress toward achieving the aforementioned targets is monitored at the Management Deliberation Meeting and meetings of the Board of Directors in which all officers participate.

Risk Management

In a volatile business environment, DENSO always strives to actively identify diversifying risks and conduct risk management from the perspectives of minimizing damage and ensuring business continuity. Climate change-related risks are reported to the Companywide Safety, Health, and Environment Committee, which identifies key items and clarifies the Company's response.

Also, we have designated climate change-related risks (physical risks) as one of the major risks toward which the Risk Management Meeting should particularly invest resources and promote initiatives. Based on this designation, we are strengthening our response to these risks on a Groupwide basis from the perspective of overall risk management. (Risk Management

□ P.114-116



Metrics and Targets

In light of society's expectations and the progress of our activities based on Eco Vision 2025, in fiscal 2022 we set ourselves the more ambitious goal of becoming carbon neutral. Since then, we have been advancing activities with our sights set on this goal.

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 progress and follow-up regarding these targets are shared not only at the Companywide Safety, Health, and Environment Committee but also at the Management Deliberation Meeting and the Board of Directors.

The specific company targets are shown in the table below.

Climate Change-related Targets (CO₂ Emissions Reduction) (Benchmark year: Fiscal 2021)



^{*} The target of keeping temperature increases well below 2°C, which is a Scope 3 target under the 1.5°C standard



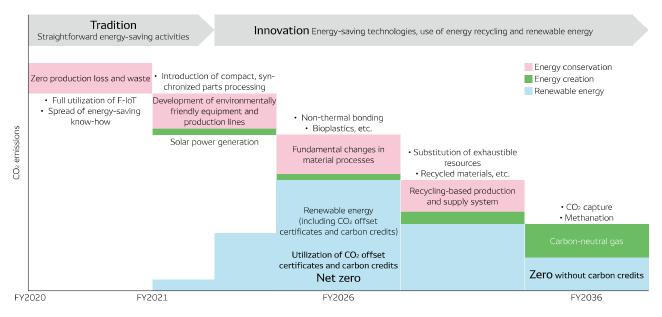
Carbon-Neutral Monozukuri

Aim

Achieve Complete Carbon Neutrality in Monozukuri

We aim to achieve carbon neutrality in *Monozukuri* by lowering CO_2 emissions through energy consumption reduction based on more-efficient manufacturing processes; by using such renewable energy sources as sunlight; and by developing and commercializing technologies that capture CO_2 emitted in production processes and reuse it as energy.

We will switch 100% of our electricity to renewable energy sources and use carbon credits for gas to become carbon neutral by fiscal 2026. By fiscal 2036, we will no longer use carbon credits and be completely carbon neutral.





Achievements to Date

We have reduced CO_2 emissions by 26% compared with fiscal 2021 by thoroughly implementing energy-saving activities, which are one of our long-standing strengths; by introducing renewable energy; and by utilizing carbon credits.

Notes: 1. The results figures reflect the use of carbon credits.

- 2. The targets are production bases in Japan and overseas (including the Group's manufacturing companies).
- 3. Fiscal 2021 results have been adjusted for the effect of the reduced production that accompanied the COVID-19 pandemic.



Reduction of CO₂ Emissions in the Supply Chain

Aim

Realize Carbon Neutrality through Collaboration between DENSO and Suppliers

Since the progress of the initiatives conducted by suppliers varies from one supplier to another, DENSO will monitor progress through active dialogue with suppliers and provide support suited to their issues. For example, we will provide information on energy-saving know-how and help suppliers procure renewable energy and transition to low-carbon materials.

Scope 3 (Downstream)

FY2031

Reduction of 25% (compared with fiscal 2021, equivalent to well below 2°C)

Carbon Neutrality for Electric Vehicle Components

Aim

Contribute to the Electrification of Cars to Reduce CO₂ Emissions to the Greatest Extent Possible

We will help reduce CO_2 emissions from vehicle use by developing products and systems that support the popularization of HEVs, BEVs, FCEVs, and other xEVs. 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 CO_2 emissions in all facets of mobility.

Reduction of CO₂ Emissions from 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.

International Certification of Reduction Targets

We have established targets for the reduction of greenhouse gas emissions by fiscal 2031. These targets are based on scientific evidence and consistent with the goal of limiting the global average temperature increase to 1.5°C above pre-industrial levels, which is set forth by the Paris Agreement. As a result, our targets have obtained Science Based Targets (SBT) certification from the internationally recognized Science Based Targets initiative (SBTi).*



* The SBTi is a joint initiative established by World Wide Fund for Nature, CDP, the World Resources Institute, and the United Nations Global Compact. The SBTi formulates guidance that enables companies to set specific targets for the volumes and timeframes of greenhouse gas emission reductions. SBT certification is granted to companies whose targets are recognized to be in conformity with scientific findings (Science Based Targets).

We will continue conducting extensive studies and analyze in even greater detail the quantitative financial effects of key items as well as the specific business opportunities and risks that accompany them. We will then reflect our findings in business strategies and action plans.