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Environmental Policies and Philosophy

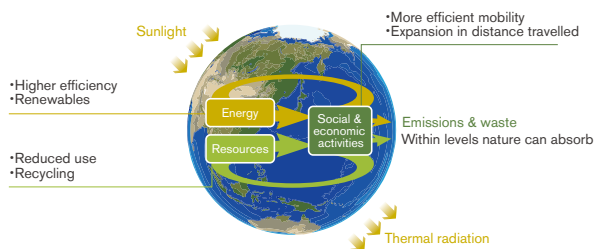
Environmental Principles

We provide customers with innovative products and services, by promoting the effective use of energy and resources, by diversifying our sources, and by making active use of renewable energy and recycled materials. These are just some of the ways in which Nissan is striving to achieve “a Symbiosis of People, Vehicles, and Nature.”

To this end, we have clearly defined our ultimate goal: “To reduce the environmental impact and resource consumption of our corporate operations and vehicles throughout their life cycle to a level that can be absorbed naturally by the Earth.” and set what we want to be. This means endeavoring to leave as small an ecological footprint as possible.

Beyond deepening our awareness of the environment, we strive to conduct all business activities with consideration and kindness for people, society, nature and the Earth, as a means of contributing to the development of a better society.

Nissan’s Environmental Philosophy: A Symbiosis of People, Vehicles, and Nature



* Based on Beyond Growth: The Economics of Sustainable Development, by Herman E. Daly

Nissan’s Environmental Philosophy: A Symbiosis of People, Vehicles, and Nature

In addition to deepening our understanding of the environment, we conduct all of our operations, including production and sales, with consideration for people, society, nature and the earth, as a means of contributing to the building of a better society.

Ultimate Goal

We will manage the environmental impact caused by our operations and products to a level that can be absorbed by nature and pass on rich natural capital to future generations.

What We Want to Be: A Sincere Eco-Innovator

Sincere: Proactively address environmental challenges and reduce our impact on the environment.

Eco-Innovator: Develop a sustainable mobility society through innovative technology in products and services.

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Nissan’s Understanding of Environmental Issues

Environmental and social issues are attracting more and more attention in recent years. With the world’s population expected to reach 9.7 billion by 2050, society faces problems in areas such as poverty and hunger, energy, climate change, and various conflicts. Among these, the problem of climate change is considered to be the cause of widespread natural disasters that occur frequently all over the world every year, thus it is more necessary than ever to curb the effects of climate change. To address these issues, the UN adopted 17 Sustainable Development Goals (SDGs) and 169 targets, and there are high expectations that corporations as well as nations will play a major role in realizing the SDGs. Nissan supports the SDGs, as it recognizes the growing importance of delivering safe, secure, and sustainable mobility for all and providing value to society.

The auto industry is dependent on the global environment in complex and diverse ways, while also having significant impact on the environment. Nissan is tackling a range of issues to promote sustainability by advancing measures to mitigate climate change and conserve energy, preserve air quality and other natural capital, use mineral resources efficiently, properly manage chemical substances, efficiently allocate scarce resources, and promote good health. We are also improving our business to reduce our dependence on fossil fuels.

As a global automaker, we take active steps to identify the direct and indirect environmental impacts of our activities, working with business partners and society to minimize the negative impacts of our products and services throughout their life cycle. We acknowledge that our activities and efforts must be continuously improved and advanced; we seek to provide greater value for society by delivering sustainable mobility for all while alleviating environmental impacts associated with climate change, natural resource dependency, water use, and other issues.

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Nissan’s Strategic Approach to Environmental Issues*

To solidly contribute to global environmental issues, Nissan engages in direct discussions with environmental experts, investors, NGOs, NPOs and other organizations throughout the world and identifies, We analyze opportunities and risks facing the Company and decide on material issues recognized as important by both stakeholders and Nissan, contributing to the formulation of Nissan’s medium- and long-term environmental strategies.

We identified three response priority areas as an automobile manufacturer: energy sourcing, mineral material sourcing and water usage. We also selected air quality as the scope of consideration as it is directly linked to people's healthy lives.

These approaches respond to the SDGs* and contribute to their attainment.

* Click here for more information on the Nissan’s materiality including Environmental issues.

[>>> P012](#)

* Click here for more information on SDGs Areas where Nissan's Environmental Strategy Mainly Adds Value

[>>> P017](#)

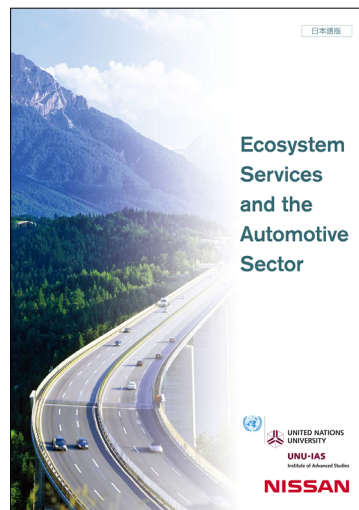
Priority Issues for Automobile Manufacturers Regarding the Protection of Air, Water, Soil and Biodiversity

In October 2021, at the 15th Conference of the Parties to the Convention on Biological Diversity (COP15) held in Kunming, China, discussions focused on the various unprecedented and complex crises facing humanity, including significant biodiversity loss, the degradation of land and sea, and pollution. That same year, University of Cambridge Emeritus Professor Sir Partha Dasgupta published *The Economics of Biodiversity: The Dasgupta Review* espousing the idea of introducing natural capital in to the economy, which was referenced at the G7 Summit and contributed to influencing international politics.

These international discussions are backed by scientific evidence acquired in the world’s first Millennium Ecosystem Assessment conducted by the United Nations from 2001–2005. This assessment focused on two main points, (1) the deterioration of global ecosystems, which is progressing at an unprecedented rate and scale, and (2) ecosystems that create many services (ecosystem services) such as food, freshwater supplies, climate control and protection from natural disaster, all of which substantially benefit humanity. At the same time, Nissan incorporated the Corporate Ecosystem Services Review*¹ method, which considers the necessity of grasping the impact and dependence of corporate activities on ecosystems, and launched assessments of the overall value chain related including vehicle operation. In 2010, the results of research conducted with the United Nations University were published in the report *Ecosystem Services and the Automotive Sector**². Through these assessments, we identified three priority areas on which we should focus as an automaker: Procurement of Energy, Procurement of Material Resources and Usage of Water Resources. We also estimate that in 2013, the use of water resources in the upstream resource

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procurement process was more than 20 times the amount of water used by Nissan. Ecosystem and biodiversity assessments are reflected in revised materiality decisions and incorporated into specific actions as Nissan Green Program policies and strategies.



*1 Developed by the World Resources Institute (WRI) in cooperation with the World Business Council for Sustainable Development (WBCSD) and the Meridian Institute based on the UN Millennium Ecosystem Assessment (MA).

*2 Click here to read "Ecosystem Services and the Automotive Sector"
https://www.nissan-global.com/EN/DOCUMENT/PDF/ENVIRONMENT/SOCIAL/ecosystem_services_and_the_automotive_sector.pdf

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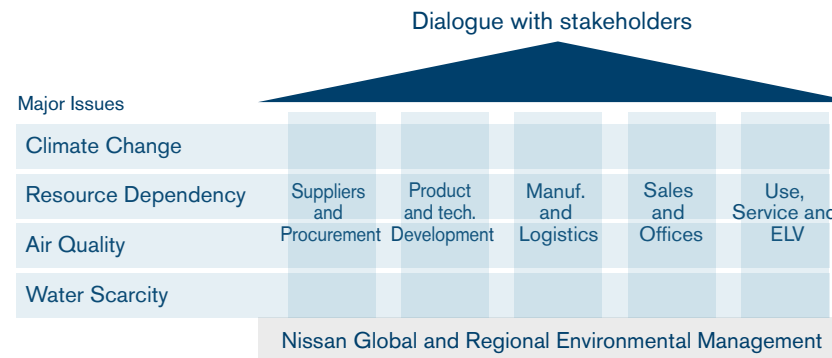
Global Environmental Management Framework and Governance System

To promote comprehensive environmental management as a global company while responding to a diverse array of environmental issues, Nissan has a governance system built on dialogue and partnership with each region and many corporate functions, as well as with a variety of stakeholders.

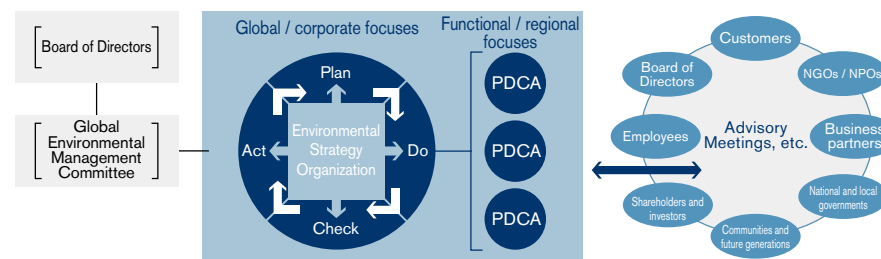
The Global Environmental Management Committee (G-EMC), co-chaired by a Board member, determines overall policies and the content of reports put before the Board of Directors. Its meetings are attended by corporate officers chosen based on the issues to be discussed. Executives also clarify risks and opportunities at the corporate level and determine the specific programs to be undertaken by each division, using the PDCA cycle to manage and operate the environmental programs efficiently. Environmental risks are regularly reported in the Internal Control Committee meetings to strengthen corporate governance.

Corporations today are expected to disclose their environmental initiatives and related decisions in a reliable and transparent manner. We actively communicate with a broad range of stakeholders through our Sustainability Report and by answering inquiries from various environmental rating agencies.

Global Environmental Management Framework



Environmental Management Organization



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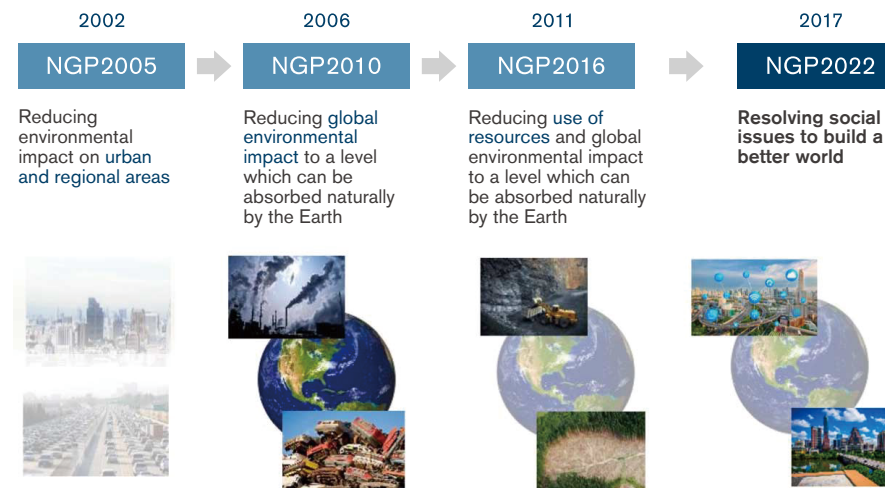
Environmental Action Plan: Nissan Green Program (NGP)

We first announced the Nissan Green Program (NGP) medium-term environmental action plan in 2002 to achieve our environmental philosophy of “a Symbiosis of People, Vehicles, and Nature” and to ultimately reduce our environmental dependence and impact to levels that nature can absorb. Under NGP2016, launched in fiscal 2011, we fully achieved our targets for the four key initiatives of zero-emission vehicle penetration, fuel-efficient vehicle expansion, corporate carbon footprint minimization, and natural resource use minimization. New plan NGP2022* was launched in fiscal 2017.

* Click here for more information on NGP2022.

<https://www.nissan-global.com/EN/SUSTAINABILITY/ENVIRONMENT/GREENPROGRAM/>

Evolution of NGP



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NGP2022 Key Issues and Challenges

Based on environmental materiality analysis, Nissan has identified “climate change,” “air quality,” “resource dependency,” and “water scarcity” as important issues under NGP2022. Furthermore, in order to contribute to the resolution of these four important issues and create new value, we are also working to strengthen the business foundation related to environmental issues through stakeholder engagement aimed at understanding the needs of stakeholders.

NGP2022 discloses indicators and progress on initiatives related to the four identified material issues every year. In addition to the development and production departments involved in car manufacturing, the sales and service departments and Nissan as a whole are also accelerating efforts related to environmental issues while strengthening our business foundation and working to create social value.

Under NGP2022, we will take on the challenge of addressing the following key issues, striving not just to attain compliance but also to meet society’s expectations and to realize our long-term vision.

- Climate Change: We aim for carbon neutrality.
Promote society’s decarbonization through vehicle electrification / intelligence and innovative future *monozukuri*
- Resource Dependency: We aim to eliminate the use of new material resources.
Create systems for using resources efficiently and sustainably, as well as services able to effectively utilize vehicles. (circular economy)
- Air Quality: We aim for zero impact.
Ensure cleaner exhaust emissions and create a comfortable in-cabin environment to protect human health and reduce the impact on ecosystems

- Water Scarcity: We aim for zero stress.
Reduce water consumption and manage water quality with *monozukuri* that is considerate of impact and dependency on ecosystems

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NGP2022 Action Plan

Activities	NGP2022 Objectives	FY2021 Results
Climate change (Product)		
Long-term vision: Realize carbon neutrality by 2050		
1	Product CO ₂ emission reduction 40% reduction of CO ₂ emissions from new cars (vs. FY2000; Japan, U.S., Europe and China)	Reduced by 42.5%
2	Solid EV leadership —	Nissan LEAF is the first global mass market EV and accumulated sales over 580,000 units, boasts the top EV sales in Japan. Started sale of new innovative EV Nissan ARIYA and plan to sale of new Kei EV Nissan SAKURA in FY22
3	Support driver's behavior Promote development to improve actual fuel consumption	Completed development of practical fuel efficiency improvement technology by individual driver air conditioning besides automatic support for driving
4	Expansion of vehicle usage Global expansion of V2X for energy management (Japan, U.S. and Europe)	Promoted expansion of usage, including demonstration experiments for commercialization
Climate change (Corporate)		
Long-term vision: Realize carbon neutrality by 2050		
5	Overall reduction of CO ₂ emissions from corporate activities 30% reduction of CO ₂ emissions per vehicle sold (vs. FY2005; global)	Reduced by 32.9%
6	Reduction of CO ₂ emissions at manufacturing sites 36% reduction of CO ₂ emissions per vehicle produced (vs. FY2005; global)	Reduced by 23.4%

Activities	NGP2022 Objectives	FY2021 Results
7	Reduction of CO ₂ emissions of logistics 12% reduction of CO ₂ emissions per production (vs. FY2005; Japan, North America, Europe and China)	Reduced by 27.9%
8	Reduction of CO ₂ emissions at offices (including R&D sites) 12% reduction of CO ₂ emissions per floor area (vs. FY2010)	Reduced by 26.7%
9	Reduction of CO ₂ emissions at dealers 12% reduction of CO ₂ emissions per floor area (vs. FY2010; Japan)	Reduced by 15.2%
10	Expansion of renewable energy use Expansion of renewable energy introduction	Consumption rate of renewable energy at manufacturing plants 11.1%
Air quality		
11	Cabin air quality improvement Promotion of research on technical solutions	Technology development complete
12	Reduction of VOC emissions at manufacturing sites Promotion of VOC emission reduction per paint area (vs. FY2010)	Reduced by 39.3%
Resource dependency		
Long-term vision: Reduce dependency on new materials by 70%		
13	Development of biomaterials Promotion of research on technical solution	Development underway

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Activities		NGP2022 Objectives	FY2021 Results
14	Proper use of chemical substances	Implementation of the Alliance policy on chemical substance management	Strengthened Alliance policy and continuous steady implementation
15	New resource usage minimization	More than 30% (in weight) of a new vehicle to be non-new material resources	Promoted activities toward NGP2022 target
16	Expansion of remanufactured parts	Duplation of remanufactured item coverage (vs. FY2016)	Promoted activities toward NGP2022 target
17	Expansion of battery reuse	Expansion of the EV battery reuse business	Promoted EV battery reuse
18	Adoption of die-less forming	Plan and implement technical development	Adoption to heritage parts
19	Waste reduction (manufacturing)	BAU 2% (Japan) and BAU 1% (overseas) reduction of waste	Reduced by 9.0% (Japan) Reduced by 9.6% (Overseas)
20	Waste to landfill reduction (manufacturing)	Landfill ratio reduction	Reduced waste to landfill ratio To 4.3% (global)
Water scarcity			
21	Water withdrawal reduction (manufacturing)	21% reduction of water withdrawal per global production (vs. FY2010)	Reduced by 11.1%

Activities		NGP2022 Objectives	FY2021 Results
Business foundations			
22	Governance enhancement	Implementation of our environmental compliance policy	Adhered to environmental compliance policy
23	Further application of LCA	Measure lifecycle environmental impact of vehicle and new technology	Continuously monitored lifecycle impact for environment from 3 new models on 2021 and implemented LCA management process on product engineering
24	Engagement with suppliers	Implementation of environment data survey to promote engagement and reduce environmental impact	Promote supplier engagement globally through CDP survey and Environmental Activity Explanation Meeting
25	THANKS activities promotion	Further promotion of Supplier THANKS activities	Continued to promote THANKS activities
26	Nissan Green Purchasing Guidelines	Adoption of updated policy	Strengthen the Nissan Green Purchasing Guidelines and its adoption
27	Education program for the next generation	Global expansion of Nissan Waku-Waku Eco school program	Conducted DVD distribution, online education programs and onsite lessons in Japan. Conducted environment program in Thailand
28	Collaboration with NGOs for ecosystem conservation	Enhancement of collaboration and partnerships with NGOs	Collaboration with WWF Japan and Care International Japan, which are promoting ecosystem conservation