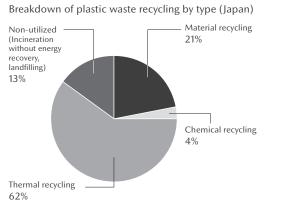
Earth RESOURCE CIRCULATION

Recognizing Social Issues

Resource Recycling for Materials

In the context of a growing world population, the global community is facing challenges due to an increase in demand for resources and the worsening environmental issues, including the rising amount of waste. To address these challenges, it is necessary to transition to a circular economy that considers medium- and longterm outlooks, but also to promote the conventional 3R (reduce, reuse, and recycle) initiatives in all economic activities. A circular economy intends to generate new value while reducing resource inputs and consumption and making effective use of social stock. Plastic recycling is indispensable in achieving a circular economy. In Japan, currently an estimated 60% of plastic waste goes through thermal recycling, which means that the waste is combusted in incinerators to produce energy. In Western countries, however, usually combustion is not included in the concept of recycling. Also, a minute amount of dioxin is generated during the process of combustion. For these reasons, companies are required to contribute to the circular use of resources (material recycling/ chemical recycling) or the use of biomass plastics.



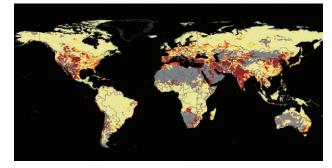
The above pie chart was created by Mazda, based on "An Introduction to Plastic Recycling 2023" published by the Plastic Waste Management Institute.

Resource Recycling for Water

Of the total volume of water existing on the earth, only 0.01% is useable by humans. This small amount of water is not distributed around the world, so a number of countries and regions face high water stress.*1

If the earth's temperature continues to increase due to climate change in the future, the sea levels will rise owing to the thermal expansion of the oceans and melting ice caps. This will result in rivers being contaminated with salt water, a rise in groundwater levels and other disasters that will reduce the amount of freshwater available to humans. Meanwhile, the United Nations World Water Development Report 2018 states that by 2050, global demand for water is expected to increase by 20-30% from 2010, driven by population growth, economic development and changing consumption patterns, among other factors. Companies must address the issues regarding global water resources in order to conduct sustainable business activities.

| Water stress are | ound the w | vorld | |
|-----------------------|--------------|-------|------------------------|
| Baseline (water stres | is) | | |
| Extremely | high (>80%) | | Low-medium (10-20%) |
| High (40-8 | 80%) | | Low (<10%) |
| Medium-h | igh (20-40%) | | Arid and low water use |



The below figure was created by Mazda under license from the World Resources Institute (WRI).

WRI "25% of the global population faces extremely high water stress each year"

Mazda's Approach to Resolving Issues

Reasons for Addressing Social Issues

Around 2030, Mazda forecasts progress in various initiatives to realize a recycling-oriented society from the perspective of natural capital. This will be achieved through using resources without any losses, promoting the 3Rs to encourage the reuse of water, plastic and other resources, and establishing resource circulation systems, such as a circular economy. Meanwhile, a significant reduction in energy and resource losses throughout the entire vehicle manufacturing supply chain may be expected as a result of efforts to make process more efficient. Dramatic progress will also be made in recycling and waste reduction initiatives through the promotion of the 3Rs and the transition to a circular economy. Aiming to become a company that can coexist in harmony with the earth, Mazda will continue to implement thorough recycling and waste reduction initiatives.

Approach to Resolving Social Issues

To carry out product development and design with consideration for recycling needs, Mazda builds resource-recycling initiatives into every phase of the lifecycle of its vehicles, based on the 3Rs and the circular economy. Many limited resources are used to manufacture vehicles, such as steel, aluminum, plastics and rare metals. At its business sites (areas of manufacturing, logistics, etc.), the Company will push forward with initiatives toward the realization of a recycling-oriented society from two different perspectives shared throughout the entire vehicle supply chain. One is the well-to-wheel perspective, and the other is the global & supply chain perspective.

*1 Term that refers to the ability, or lack thereof, to meet human and ecological demand for water

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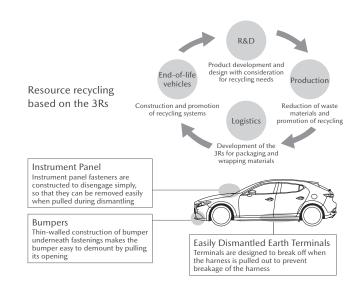
Efforts Regarding Product and Technology Development

Product Development and Design with Consideration for Recycling Needs

Many limited resources are used to manufacture vehicles, such as steel, aluminum, plastics, and rare metals. Mazda is incorporating 3Rs design into all vehicles currently under development to increase the recyclability of its new vehicles.

<Specific Initiatives>

- Research into vehicle design and dismantling technologies that simplify dismantling and separation, to make recyclable parts and materials easier to remove
- 2. Use of easily recyclable plastics, which constitute the majority of ASR*1 by weight



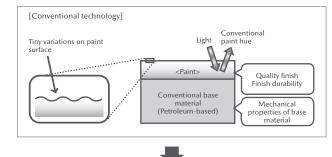
Expanded Adoption of Biomaterials

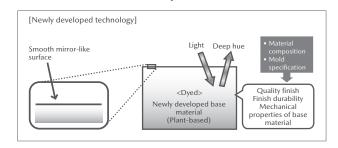
Mazda has been proactively developing plant-derived biomaterials which have the potential to help reduce environmental impact by curbing the use of fossil fuels and CO₂ emissions. In 2006, the Company became the first in the automotive sector to develop high heat-resistant, high-strength bioplastic for vehicle interior parts. In 2007, Mazda succeeded in the development of the world's first*² biofabric made with completely plant-derived fibers for vehicle seat covers. In 2014, bio-based engineering plastic, *³ suitable also for use in vehicle exterior parts, was developed by the Company, which is currently expanding the adoption of this material.

Technology development initiatives related to bio-based engineering plastics

- 2014: Mazda developed bio-based engineering plastic featuring a high-quality finish without painting. By developing paintless technology for interior and exterior parts taking advantage of the characteristics of this material, the Company not only secured the excellent environmental performance of the material but also achieved a high-quality finish that could not be achieved with conventional paint, and contributed to environmental protection and production cost reduction by eliminating the painting process.
- 2017: Mazda developed materials suitable for making large, intricately shaped exterior parts, such as front grilles, and optimized the die specifications in order to substantially enhance the formability of these parts. In 2020, the Company received the Award for Science and Technology (Development Category) of the 2020 Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology for the development of the above-mentioned bio-based engineering plastic.
- 2018: Mazda developed a new technology for two-layer molding of pattern designed bio-based engineering plastic, which enables the molding of a transparent surface layer and a base layer with a pattern-engraved surface, both of which are made of environmentally friendly bio-based engineering plastic. The new technology reduces environmental impact while making it possible to provide elaborated, shaded patterns of deep color, which was previously impossible with conventional technology. In 2021, the Company received the Aoki Katashi Innovation Award from the Japan Society of Polymer Processing for the development of the above-mentioned new technology for two-layer molding of pattern designed bio-based engineering plastic. In 2023, Mazda received a METI Minister's Prize at the Ninth Monodzukuri Nippon Grand Awards.

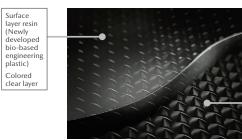
2014: Development of paint-less technology for interior and exterior parts taking advantage of this material





2018: New technology for two-layer molding of pattern designed bio-based engineering plastic

New technology for two-layer molding of pattern designed biobased engineering plastic: surface view





- *1 Automobile Shredder Residue
 - It refers to the residue remaining after the crushing/shredding of what is left of the vehicle body following the removal of batteries, tires, fluids, and other parts requiring appropriate processing; the removal of engines, bumpers, and other valuable parts; and the separation and recovery of metals.
- *2 As of September 2007; according to Mazda data
- *3 Bio-based engineering plastic was developed by Mazda Motor Corporation in collaboration with Mitsubishi Chemical Corporation.

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Efforts Regarding Production and Logistics

Resource Circulation: Materials

The Mazda Group continues to expand its global efforts for zero emissions and resource recycling, by such means as using resources without any losses, and 3R activities (to reduce, reuse, and recycle resources).

| 2030 | 2050 |
|---|--|
| Achieve zero emissions in manufacturing and logistics processes on a global basis. The status in which landfill waste is reduced to 0.1% or lower of the total waste generated. The Mazda Group companies in Japan achieved zero emissions in 2018 | Achieve zero emissions through expanded resource recycling initiatives in manufacturing and logistics processes on a global basis. • Break away from dependence on thermal recycling or other combustion-based recycling methods • Augment material recycling |
| Reduce pa | eld-enhancement technologies rt weight sckaging, etc. |
| Change to recyclable materials | Group company Products OUT Products OUT Customer Customer (Reuse) Promote the use of returnable packaging, etc. |

[Resource diversification]

Production Materials: Maintaining the Status of Zero Landfill Waste and Promoting the Reduction of Waste

To reduce landfill waste at its four principal domestic sites^{*1} to zero, Mazda is promoting reductions in the volume of manufacturing by-products and waste, more rigorous sorting of waste, and recycling. As a result, the Company has achieved zero landfill waste, and has maintained this status from FY March 2009 to FY March 2023. The Company has also achieved material recycling, to ensure that packaging materials used in the vehicle assembly process can be reused as raw materials, by more strictly sorting these packaging materials by ingredient and quality. The amount of waste in FY March 2023 was reduced by 86% compared with FY March 1991 levels. Mazda has been proactively using recycled materials for the plastic pallets used to transport parts overseas. Currently, the Company is continuing studies into using plastic waste generated at its plants as a recycled material for the production of plastic pallets, working to further reduce the amount of waste generated.

Amount of landfill waste, amount of recycled materials, recycling ratio (P113)

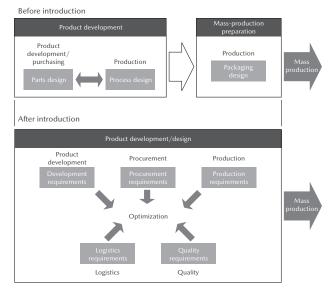
Logistic Materials: Reducing Volume of Packaging and Wrapping Materials

Mazda is moving forward with efforts centering on the "3Rs of Mazda logistics" to cut down on resources used for packaging and wrapping. In FY March 2023, the use of packaging and wrapping materials was reduced by 17% compared with FY March 2020 levels.

In FY March 2017, departments in the five areas-development, production, procurement (purchasing), logistics and qualityclosely worked together to achieve the optimization of parts procurement and vehicle manufacturing, from the stage of product development, and to establish strong cooperation with the supply chain. These efforts resulted in reduced volumes of packaging and wrapping materials, and an increased packaging filling rate. In FY March 2023 as well, these departments worked in close collaboration to improve the packaging filling rate for some parts, and to reduce the volumes of their packaging and wrapping materials. Mazda will continue promoting and expanding these activities that involve efforts in different areas, so as to reduce the consumption of materials. In the area of repair parts for overseas, the Company continues to expand the application of large-size returnable containers, aiming at increasing the container filling rate. By utilizing these containers, Mazda succeeded in reducing the use of packaging and wrapping materials by about 2,100 tons in FY March 2022 and by about 2,700 tons in FY March 2023. For the parts exported to overseas assembly plants, the Company is now expanding its introduction of new standard containers for parts to be transported in containers from Japan. This makes it possible to eliminate the empty space inside the containers. By improving filling rate inside the container from 70% to 90%, the Company could reduce the number of containers and the number of transportation truck services, thus contributing not only to the reduction of the use of packaging and wrapping materials, but also to the reduction of CO₂ emissions. These activities were rolled out to Mazda Toyota Manufacturing (MTM), which began operations in January 2022. By introducing new standard containers, in FY March 2023, the Company succeeded in reducing the number of containers by about 33, and the use of packaging and wrapping materials by around 1,800 tons. The Company is planning to expand the introduction of the new standard containers to achieve further reductions.

Consumption of wrapping and packaging materials (P113)





Introduction of Returnable Containers



After introduction



*1 Head office (Hiroshima); Miyoshi Plant; Hofu Plant, Nishinoura District; Hofu Plant, Nakanoseki District (including non-manufacturing areas such as product development)

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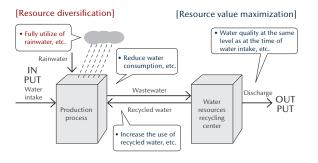
Resource Circulation: Water

To conserve water resources, the Mazda Group promotes activities to eliminate wasteful water use, and circulate water resources by treating used water so that it is the same quality as it was taken from nature.

| 2030 | 2050 |
|--|--|
| Implement an optimal approach to water resources recycling and circulation at a model plant* in Japan. Fully utilize water without any waste, as a valuable resource that is a natural blessing. Circulate water as a valuable resource that is a natural blessing, by treating used water so that it is the same quality as before it was used, and returning it to nature. | Implement an optimal approach to water resources recycling and circulation in global manufacturing processes. • Fully utilize water without any waste, as a valuable resource that is a natural blessing. • Circulate water as a valuable resource that is a natural blessing, by treating used water so that it is the same quality as before it was used, and returning it to nature. |

* Model plant: A pilot plant where new attempts are made, ahead of other facilities.

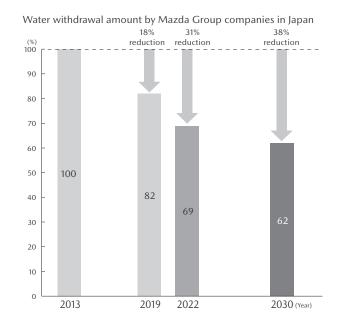
Ideal vision



|Water Resource Conservation Target

In order to implement its initiative of water resource reuse and recycling at a domestic model plant, the Company has set a target of reducing water intake by the entire Mazda Group in Japan by 38% in 2030 compared with 2013 levels. In order to achieve this target, the Company is planning to reduce the annual water use by 2%. In addition, the Company promotes the further use of rainwater and recycled water.

Water withdrawal and wastewater amount (P114)



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To Achieve Water Resource Conservation Target

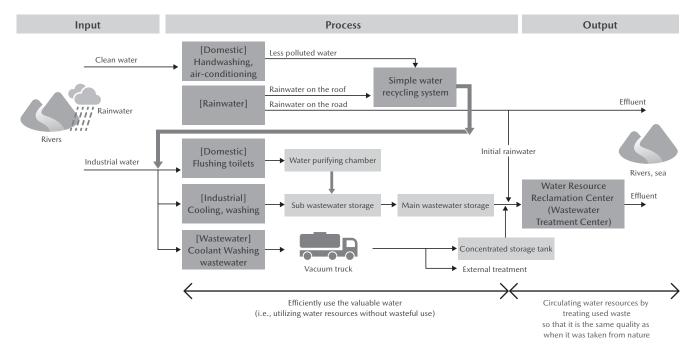
By clarifying input, process, and output of water resource in its business activities, Mazda is promoting initiatives to efficiently use the valuable water (i.e., utilizing water resources without wasteful use), minimizing water usage, and circulating water resources by treating used water so that it is the same quality as when it was taken from nature. To push forward these initiatives, the Water Resource Group^{*1} was established consisting of members in charge of water resource conservation. The group works on six major themes: "eliminating wasteful use," "reduction," "reuse," "recycling," "utilization of rainwater, water sludge and waste fluid" as well as "building communities and systems and developing human resources" by splitting into two teams to analyze current conditions and to respond to issues identified during that analysis. The Water Resource Group also started sharing information on initiatives at domestic plant with overseas plants, as well as supporting the overseas plants' efforts to address the issues.

 Recycling/Circulation Team: reviews models in the field of wastewater treatment, reviews models and implement trials in the field of water intake Use Reduction Team: introduces models and rolls out trial results reviewed by the Recycling/Circulation Team to plants

Examples of Efficient Use of Water Resources [Appropriate use / reuse]

- Appropriate drainage of cooling towers: Prevention of overflows caused by excessive water supply, and reuse of less polluted water in circulation without draining in accordance with internal standards
- Reducing toilet washing water: Put a sensor on each toilet that allows flushing only when the sensor senses the existence of the user
- Effective use of electrodeposition paint cooling drainage: Water used to cool paint is reused in other processes

[Recycling of drain water / utilization of rainwater] Less-polluted water, such as hand washing water and air-conditioning drainage, is recaptured and recycled with a simple recycling system and used together with stored rainwater for flushing toilets, watering green space, etc., at Mazda sites



*1 A working group affiliated with the Business Site Environment Committee, an organization that studies and promotes environmental protection methods in manufacturing and logistics and reduce environmental impact throughout the entire supply chain.

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Initiatives for Collection and Recycling of End-of-Life Vehicles (ELVs) and Used Parts

Around 80% of a vehicle can be recycled. Implementing thorough recycling and waste reduction initiatives to ensure that limited resources are used effectively, Mazda promotes efforts to establish a recycling-oriented society.

Measures in Response to End-of-Life Vehicle Recycling Law in Japan

Mazda properly processes and recycles three designated items (fluorocarbons, airbags, and automobile shredder residue [ASR])*1 pursuant to the End-of-Life Vehicle Recycling Law in Japan. In addition, the Company is creating unique technologies and measures to move this recycling program forward. In the case of ASR, Mazda is working through ART,*2 a consortium of 13 key companies including Mazda, Nissan Motor Co., Ltd., and Mitsubishi Motors Corporation, to comply with the law and achieve progress in the reuse of resources.

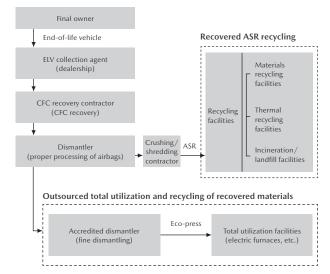
The Company appropriately executes recycling at dealerships. Dealerships collect vehicle recycling fees at the time of sale and receive the ELVs from their final owners in order to transfer them to the disposal processing companies. As for recycling fees, the Company reviewed its fee calculation standard in sequence for new models launched in 2012. The new fee standard is applicable to the Company's new models released after that. While forecasting a future recycling situation, the Company will continue to push forward with its recycling business in such a way to ensure a balance between revenue and expenditures in the medium and long term. The End-of-Life Vehicle Recycling Law was revised in February 2012, and newly designated lithium-ion batteries and nickelmetal hydride batteries as items for advance collection before dismantling of end-of-life vehicles. Mazda is committed to collecting lithium-ion batteries installed in vehicles launched in and after October 2012 through the LiB Joint Collection System of Japan Auto Recycling Partnership, Ltd. The Company also independently collects nickel-metal hydride batteries installed in the Axela (Mazda3 overseas) Hybrid (launched in November 2013). In order that the related supplier safely recycle vehicles in-

stalled with lithium-ion batteries and nickel-metal hydrate batteries as well as deceleration energy regeneration system

capacitor, Mazda published the disposal work procedure on its website and promotes appropriate disposal.

Reference website (Japanese only) for Mazda's efforts with regard to the Endof-Life Vehicle Recycling Law

End-of-Life Vehicle Recycling Process



| Resource Recycling Results in FY March 2023 |
|---|
|---|

| Number of vehicles from whi collected | 113,036 units | |
|---|-------------------|-------------------|
| Number of vehicles from whi collected | ch airbags are | 108,127 units |
| Number of vehicles from whi fluorocarbon is collected | 107,587 units | |
| Pocycling ratio | 96.8% | |
| Recycling ratio | Airbags | 95.3% |
| Recycling ratio for ELVs* | More than 99% | |
| Total contracting deposits rec | 1,380,143,362 yen | |
| Total expenses for recycling | | 1,350,023,420 yen |
| | | |

(Includes separate cost required at Mazda)

* Recycling ratio for ELVs is the recycling ratio in dismantling/shredder processes of around 83% (cited from the May 2003 joint council data), plus the remaining ASR ratio of 17% multiplied by the ASR recycling rate for the relevant fiscal year.

Status of resource recycling initiatives (Japanese only)

ASR and the End-of-Life Vehicle Recycling Law in Japan

Disposed vehicles consist of about 80% useful metal and about 20% automotive shredder residue (ASR) that includes resin. Useful metal is recycled in cooperation with metal recycling-related companies such as dismantlers, crushing/shredding contractors, and steel manufacturers. With regard to ASR, which used to be disposed by landfill, is now subject to the End-of-Life Vehicle Recycling Law, which was enforced in January 2005. This is due to the rise in the risk of illegal dumping of end-of-life vehicles on the back of a surge in disposal costs due to overstrained final landfill sites and weakness in iron scrap prices.

After the enforcement of this law, car manufacturers are required to recycle ASR, chlorofluorocarbons—which lead to global warming and ozone depletion—and airbags—which require specialist knowledge for disposal—under their responsibility, using recycling fees deposited by final owners of the ELVs.

*1 Automobile Shredder Residue

*2 ART: Automobile shredder residue Recycling promotion Team

It refers to the residue remaining after the crushing/shredding of what is left of the vehicle body following the removal of batteries, tires, fluids, and other parts requiring appropriate processing; the removal of engines, bumpers, and other valuable parts; and the separation and recovery of metals.

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| Promoting Recycling of End-of-Life Vehicles Overseas

Mazda is committed to the recycling of end-of-life vehicles overseas in accordance with the laws in each country and region, under the initiative of the local distributors. As for countries in which recycling-related laws are planned to be established, Mazda is preparing to respond in cooperation with the distributors in such countries.

As well as vehicles for domestic use, in order that the related supplier safely recycle vehicles installed with lithium-ion batteries and capacitors, the Company published the disposal work procedure on its website and promotes appropriate disposal.

Reference website for Mazda's efforts with regard to recycling of end-of-life vehicles overseas

Europe

Based on the EU Directive, Mazda Motor Europe provides a dismantling manual to recycling contractors when introducing a new model and has established a network to collect used vehicles from their final owners free of charge, in cooperation with the distributors in each country.

China

A law was enforced in January 2015, in accordance with which local manufacturers are managing substances with environmental impact and developing dismantling manuals.

Promoting the Collection and Recycling of Used Parts in Japan

Mazda is continuously engaged in the recycling of damaged bumpers replaced for repairs as plastic materials for new vehicle bumpers, etc.

Recycling of damaged bumpers: Mazda collects bumpers removed for repairs at dealerships throughout Japan, and recycles them for reuse as plastic parts (new vehicle bumpers, undercovers, etc.).

In FY March 2023, the Company collected 45,399 bumpers, which were utilized as recycled materials.

