Aiming for a Sustainable Society and a Sustainable World

The JTEKT Group has positioned the environment as one of its main management issues. In order to realize a sustainable society through "No. 1 & Only One" business activities, in June 2020, we formulated an "environmental philosophy" consisting of the environmental slogan "All for One Earth" and the JTEKT Environmental Action Guidelines. We have been promoting measures that contribute toward the realization of a sustainable society and earth through a promotional framework in which JTEKT Corporation and the JTEKT Group as a whole work together as one.

Environmental Philosophy

ITEKT

Environmental Philosophy

JTEKT and the JTEKT Group companies aim to realize a sustainable society through "No. 1 & Only One" business activities.

All for One Earth — For our irreplaceable Earth –

[JTEKT Environmental Action Guidelines] Based on the JTEKT Medium to Long-term Plan, we will make continuous improvement to our

- environmental management system and strive to achieve environmental targets and performance. 1. Comply with environmental laws and regulations, and address pollution prevention
- Reduce substances with environmental impact, such as CO2 and chemical substances, 2. toward low-carbon and recycling-oriented societies
- 3. Work to protect biodiversity and ecosystems in harmony with local communities

June 25, 2020 ITEKT CORPORATION Companywide Makoto Sano

Promotional structure

Council for Enhancement of Corporate Value

Global environmental

management

environmental management under the Council for Enhancement of Corporate Value, which is chaired by the president. The council sets targets based on company policy, deliberates and decides on measures, and tracks milestones. To flexibly respond to issues related to our business activities, we have established six dedicated environmental subcommittees and have been working to achieve the goals of Environmental Challenge 2050. In addition, to achieve carbon neutrality as soon as possible, in fiscal 2021 we established the Carbon Neutral Strategy Department as a companywide and crosssectional organization reporting directly to the president. We are accelerating our efforts to become carbon neutral by establishing three new environmental subcommittees to implement specific measures for each initiative.

JTEKT is working to improve its

We are working to further strengthen our environmental management, not only at JTEKT but also at our 20 Group companies in Japan and 39 Group companies overseas.





WHAT'S JTEKT



Overall global CO₂ reductions

[Conversion coefficient used to calculate CO₂ emissions] company for the year in question





HAPING A BETTER FUTURE The Environment

With the goal of realizing a sustainable society in line with the vision of "For the children of the future," JTEKT formulated the Environmental Challenge 2050 guidelines for measures aimed at minimizing JTEKT's environmental footprint by 2050. The JTEKT Group's Environmental Challenge 2050 is based around five key pillars—Products / Technologies, Creation of a lowcarbon society, Creation of a recycling-based society, Harmony with nature / Biodiversity, and Environmental management—and the JTEKT Group is working together as one to take up the challenge of minimizing its environmental footprint and maximizing environmental value.

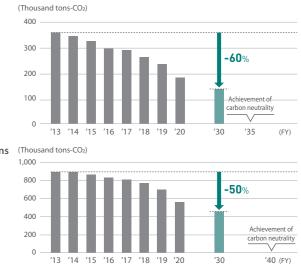
Formulated and announced in May 2016

Guideline

- Contribute to the building of an environmentally friendly society using our capabilities in the development of products and technologies
- Actively promote the development of products that are expected to contribute toward reducing the burden on the environment, including components for fuel cell electric vehicles (FCEVs), etc.
- Work to minimize CO₂ emissions throughout the product life cycle, from materials and component procurement through to lesign, manufacturing, and eventual disposal
- Work to minimize CO₂ emissions from factories engaged in the manufacturing of products by 2050
- Expand the development and adoption of innovative new processes and production equipr
- plement day-to-day improvements and enhance the efficiency of production equipment at our factories Shift over to the use of renewable energy, hydrogen energy, etc
- Work to minimize emissions and expand recycling at the production stage
- Implement source control measures (including yield enhancement, etc.) and use strengthened separation measure etc., to enhance the value of waste materials (generation of valuable resources)
- Effectively utilize recycled materials and expand internal recycling
- Nork to minimize water usage through the cyclical utilization of water used in our factories, etc., and ensure that wastewater discharged from our factories is discharged in a cleaner state
- romote activities aimed at fostering harmony with nature and protecting ecosystems, not only on a JTEKTwide basis but also in collaboration with the Toyota Group and with government agencies and NPOs
- Build a corporate culture and cultivate professionals oriented toward actively conserving the earth's
- Strengthen employees' environmental awareness and cultivate people who can make a positive contribution to the environment, both within and outside the company
- Expand the implementation of global-scale environmental activities

JTEKT has set medium- to long-term targets for 2030 as a milestone toward the achievement of the minimization of CO₂ emissions as set out in Environmental Challenge 2050.

The total emission target is a 1.5°C goal, which is consistent with the 2°C goal agreed on in the 2016 Paris Agreement (to limit global warming to well below 2°C, preferably to 1.5°C, compared to pre-industrial levels). The global CO2 reduction target is 50% compared to fiscal 2013, and the CO₂ reduction target for the JTEKT parent is 60% or more compared to fiscal 2013. We aim to achieve this through energy reduction by production technology innovations, daily improvement at plants, and the introduction of renewable energy.



- With regard to the management of CO₂ emissions per unit of production output, we have adopted a conversion coefficient that facilitates assessment of the results achieved in the company's improvement efforts.
- For overall emissions management, to ensure that CO₂ emissions data more closely reflects the actual situation. calculation is performed using the market-based conversion coefficient specified by the individual electric power

The Environment

Environmental Action Plan 2025

To promote environmental conservation activities within the JTEKT Group to achieve Environmental Challenge 2050, JTEKT worked on various energy-saving measures based on 2020 Environmental Action Plan, which was formulated as the first step until fiscal 2020. From fiscal 2021 onward, we will promote measures to achieve the goals set in Environmental Challenge 2050 based on Environmental Action Plan 2025, which was formulated as the second step.

	Challenge goals are in parentheses				
Category	Implementation	Item	Base year	FY2025 targets	
Products and technologies	Global	Contribution to CO ₂ emissions reduction through products	_	1,650,000 t	
Building a low-carbon society	JTEKT non- consolidated	CO ₂ emissions	FY2013	25% reduction (35% reduction)	
		CO ₂ emissions from logistics	FY2013	25% reduction	
		Renewable energy introduction rate	—	More than 15%	
	Global	CO ₂ emissions	FY2013	18% reduction (30% reduction)	
		Renewable energy introduction rate —	—	More than 10%	
Building a recycling society	JTEKT non- consolidated	Recycling rate	—	More than 99%	
		Basic unit of waste	FY2018	7% reduction	
		Basic unit of water usage	FY2018	7% reduction	
		Basic unit of packaging material	FY2018	7% reduction	
	Global	Recycling rate	—	More than 90%	
		Basic unit of waste	FY2018	7% reduction	
		Basic unit of water usage	FY2018	7% reduction	
Coexistence with nature and biodiversity	Global	Number of biodiversity conservation effort participants	_	More than 3,000 persons/year	

For more information: https://www.jtekt.co.jp/e/sustainability/environment/topics/

Initiatives to achieve carbon neutrality

To achieve the minimization of CO2 emissions set out in the JTEKT Environmental Challenge 2050, we have established a carbon neutral target of net zero emissions by 2040. JTEKT is committed to achieving carbon neutrality not only in terms of its own emissions (Scope 1 + 2), but also in terms of the life-cycle CO₂ emissions of its products, including those of its suppliers and others. In August 2021, we established the Carbon Neutral Strategy Department, which reports directory to the president, and organized three new subcommittees as dedicated environmental subcommittees to work in various directions to achieve carbon neutrality as early as possible.

Sco			ther than Scope 1, 2 business operators' activ	Scope 3 downstream					
deli *Other Capital goods	Raw materials	Scope 1, 2,		Product discosal					
	JTEKT's Policy Regarding Initiatives								
L.	Aiming to achie	ve carbon neutr	rality in the entire su	pply chain					
	Scope 3 upstream Amount reduced through own efforts		e 1, 2, in-house ts + others' products	Scope 3 downstream Amount reduced through own efforts					
Own efforts	Reduce purchase volume Improve the efficiency of logistics Lower the weight reduction of products Shift to remote	Energy saving (on Renewable energy Energy conversion	 Reduce the amount of 	Make products lighter Improve of product efficiency Reduce friction, etc.					
Reliance on others	Conversion to electric power for logistics vehicles Energy conversion	Renewable energy Energy conversion CO2 capture							
Co	ouncil for Enhancement of Corporate	/alue	Carbon I	Neutral Strategy Department					
				Domain: Formulation of carbon neutral scenarios					
	Neutral Technology Subcommittee	57	iers, distributed power sources, CO ₂ r	,					
	(New) Energy Infrastructure Innovation Subcommittee Domain: Introduction of hydrogen and ammonia, renewable energy; construction of energy infrastructure								
(New)	Value Chain Subcommittee	Domain: Understanding supply chain emissions and supporting CO ₂ reduction activities							
Enviro	- Environmental Responsive Products Subcommittee		Domain: Simplification of products, reduction of component types, reduction of size and weight, reduction of friction, and improvement of performance						
Produc	Production Engineering Innovation for CO2 Reduction Subcommittee		Domain: Monozukuri innovation, heat treatment, cost reduction						
Global	Global Warming & Energy Conservation Subcommittee		Domain: Daily improvements, field trials of new technologies						
Resource Recycling Subcommittee		Domain: 3Rs, saving resources (primary materials, secondary materials)							
Logisti	Logistics Subcommittee		Domain: Efficient logistics, electrification of logistics vehicles, reduction of packaging materials						

are disclosing our approach to climate change in accordance with the TCFD recommendations. Going forward, we will select multiple scenarios for analysis, including the International Energy Agency's 2°C scenario (2DS), below 2°C scenario (B2DS), and the scenario in which climate change countermeasures do not progress. These will be applied to establish our "social image" and identify climate-related risks and opportunities and then evaluate the adaptability (resilience) of our initiatives. In addition, we will consider assessing and disclosing the financial impact of climaterelated risks and opportunities. For more information: https://www.jtekt.co.jp/e/sustainability/environment/efforts/low_carbon/ JTEKT quantitatively understands resources and energy use as inputs and emissions into the **Concrete measures** environment as outputs. To minimize the impact of global warming associated with business adopted in fiscal 2020 activities, we work to reduce energy focused on processes requiring high energy consumption such as casting, forging, heat treatment and machining. As for resources, approximately 7% of the raw material input is recycled materials and about 11% is discharged as valuable resources. We are Resource inputs and promoting the effective use of resources by further improving the yield. outputs Resource / energy inputs and environmentally hazardous substance emissions INPUT Manufacturing Resource and energy inputs Raw material Emissions into the atmosphere Total 271 thousand t Steel 256 thousand t SOv Casting Aluminum ingots 7 thousand t NOx Resin pellets 1 thousand t Toluene and xylene Fuel oil and processing oil 5.411 kl Grease 2 thousand t 0 thousand t Resource circulation amount Forging Total amount of wastewater 18 thousand t (By release destinati Heat treatment Total 14,572,499 GJ^{*1} Surface water oundwater 1,264,953 MWh Electricity awater Machining Others (sewer, etc.) Renewable e ion 16,424 MWh City gas 36,629 thousand Nr LPG 4,399 t COD*4 Kerosene 517 kl rogen Painting Heavy oil A*2 Phosphorus 181 kl Total 4.814 thousand m³ Assembly (By water source rnal wast 1,114 thousand m³ Finished product Surface water 1,609 thousand m³ Automotive part Others (city water, industrial water, etc.) 2 091 thousand m³ Bearings Machine tools Reverse payment recycling^{*5} ales recycling Amount of water recycled 872 thousand m³ Hazardous waste^{*6} Chemical substances (amount of substances handled subject to PRTR^{*3}) Total 63 t Packaging 101 thousand t JTEKT and 20 domestic Group companies, 39 overseas Group compar JTEKT and 20 domestic Group companies JTEKT noncor *1 Gigajoule (unit showing heat quantity) G=109 *2 Of the heavy oils classified into three types (A, B, and C), the consistency is closest to light oil and is used as fuel for boilers and heating. *3 Abbreviation for Pollutant Release and Transfer Register, which is a system for reporting and announcing the amount of chemical substances released into the environment to the authorities. *4 Chemical oxygen demand (index showing the degree of water pollution). *5 Recycling involving the payment of disposal fees. *6 Extracted (amount of waste and reverse payment recycling) from the amount of waste regulated as specially controlled industrial waste in Japan and dangerous waste in accordance with the laws in countries other than Japan from the amount of waste discharged. In order to increase the reliability of data disclosure, JTEKT has undergone a third-party verification Third-party verification by SGS Japan Inc., with regard to results for fiscal 2020. The scope of this verification includes JTEKT's manufacturing sites, domestic Group companies and some overseas affiliates covered by Scope 1, Scope 2 emissions, water usage and waste emissions, Scope 3 Category 6 (business trips), Category 7 (employee commuting) and Category 11 (use of products sold). For more information: https://www.jtekt.co.jp/e/sustainability/environment/efforts/management/

The Environment

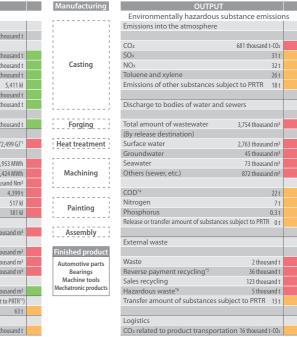
HAPING A BETTER FUTURE

Participation in the TCFD

WHAT'S JTEKT

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The identification of medium- to long-term climate-related risks and opportunities and the disclosure of information to stakeholders that assesses the resilience of company initiatives is required for corporations that are able to grow sustainably. Accordingly, in 2018, we endorsed and announced our support for the final report recommendations by the Task Force on Climate-related Financial Disclosures (TCFD), which was established by the G20 Financial Stability Board (FSB). We



The Environment

Energy-saving, highprecision casting method development Advancement and lateral development of hybrid liquification and holding furnace

Energy visualization and

energy-saving initiatives

Introduction of

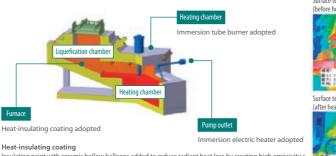
JAMY (Malaysia)

KLF (China)

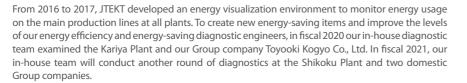
renewable energy

Overseas affiliated companies

We have improved thermal efficiency, and reduced CO2 emissions by 50% compared to the conventional system by downsizing the furnace body and highly insulating it to reduce the amount of heat dissipation. This was also accomplished by adopting an immersion tube burner and immersion heater to eliminate the holding burner. In addition, JTEKT is working on high-precision casting by improving molds, which contributes to energy conservation by reducing the switchovers in the downstream process.



ting paint with ceramic hollow balloons added to reduce radiant heat loss by creating high e Effect of using aluminum casting process at the Hanazono Plant: 50% reduction in CO₂ en to the conventional process



In fiscal 2020, a total of 3,151 kW of photovoltaic power generation systems were installed at all five plants in Japan, China, and Malaysia, reducing annual CO₂ emissions by 1,340 tons.

As a result, the amount of renewable energy introduced by the JTEKT parent was 2.27 MW and by 17.5 MW for the entire Group.

To reduce CO₂ emissions, JTEKT will continue to work proactively to achieve a renewable energy adoption rate^{*} of 25% or more for the JTEKT parent and 20% or more for the entire Group by 2030.

* Renewable energy adoption rate = amount of renewable energy generated / amount of electricity used

Main activities

A photovoltaic power generation system totaling 240 kW was installed at the Hanazono Plant in fiscal 2020. The Hanazono Plant has thus installed a total of 1,168 kW of photovoltaic power generation, which together with the amount installed to date, covers approximately 6% of its total power usage with renewable energy. JTEKT AUTOMOTIVE (MALAYSIA) SDN. BHD. (JAMY) in Malaysia and KOYO LIOHO (FOSHAN) AUTOMOTIVE PARTS CO., LTD. (KLF) in China have installed photovoltaic power generation systems of respectively 858 kW and 2,053 kW, respectively. In China, a total of

6,564 kW has been installed, and roughly 5% of the total electricity consumption is covered by renewable energy. JTEKT will continue to work on introducing renewable energy

sources that have less of an impact on the environment and create plants that operate in harmony with nature.



Received the 2020 Energy **Conservation Grand Prize** "Agency for Natural **Resources and Energy** Commissioner's Award"

JTEKT received the "Agency for Natural Resources and Energy Commissioner's Award (Small Group Activity Field)" for its "CO2 Zero Challenge". The award is a part of the "2020 Energy Conservation Grand Prize (Energy Conservation Case Category)" sponsored by the Energy Conservation Center, Japan. The "Energy Conservation Grand Prize" recognizes businesses and its establishments that are promoting excellent energy-saving efforts, products with excellent energy-saving properties, and business models. This time, our "CO2 Zero Challenge" was highly evaluated, and this was the first award for us. JTEKT has been promoting efforts to minimize CO2 emissions based on the Environmental



Challenge 2050, and the award is the improvement of the field in the "CO2 Zero Challenge" that we have been working on since 2016. The results of significant energy conservation reductions centered on this were highly evaluated. The JTEKT Group will continue to work as one to take on the challenge of realizing "Environmental Challenge 2050" under the JTEKT environmental philosophy of "All for One Earth."

eceived the 2020 Energy Conservation Grand Prize "Agency for Natural Resources and Energy Commissioner's Award"

WHAT'S JTEKT HAPING A BETTER FUTURE TOGETHER WITH SOCIETY

FSG Data

Major ESG^{*1} Data

				Unit	FY2018	FY2019	FY2
Products [Consolidated]	Contribution to CO_2 emissions reduction ^{*2}		Total	1,000t	816.0	830.0	81
	Product group examples	Steering*3	C-EPS Powerassist steering system	1,000t	370.0	361.6	32
		Bearings*4	Tapered roller bearings for automobiles	1,000t	115.0	108.4	8
R&D [Consolidated]	Total cost of R&D*5			Billions of yen	636	647	Ę
R&D [Nonconsolidated]	No. of patents pending*6				614	611	4
	No. of patents acquired*6			Incidents	334	320	:
Quality [Nonconsolidated]	No. of visitors to quality exhibitions (Total) $^{\gamma}$			People	9,237	10,374	8,2
Environment [Consolidated]	Prevention of global warming	n of global warming CO ₂ emissions for internal production				753	6
Environment	Prevention of global warming CO ₂ emissions for internal production		1,000t	217	205		
[Nonconsolidated]	CO ₂ emissions in production per in-house production volume		oduction per in-house production volume	t/Billions of yen	131.1	126.3	12
		CO ₂ emissions in logistics		1,000t	12.2	10.7	
		CO ₂ emissions in logistics per revenue			1.82	1.65	1
	Effective use of resources	Waste per in-hou	se production volume	t/Billions of yen	6.20	6.26	5
		Packaging usage per revenue		t/Billions of yen	0.75	0.78	0
		Water usage per	1,000m³/Billions of yen	1.35	1.29	1	
	Reduction and management of environmentally burdensome materials	Release / transfer	of substances subject to PRTR	t	27.1	25.7	3
	No. of environmental issues				2	0	
Employees [Consolidated]	Ratio of foreigners occupying key positions in overseas locations				65.7	74.1	7
Employees	Level of understanding by employees of own division's vision*8			96	68.0	86.3	
[Nonconsolidated]	Female employee percentage			%	10.8	10.3	10
	Percentage of women in administ	trative positions	Managerial positions	%	1.07	1.20	1
			Assistant managers	%	4.69	5.15	5
	Percentage of employees with disabilities			%	2.17	2.24	2
	Employees who took childcare leave			People	60	68	1
	Employees who took family care leave			People	5	6	
	Percentage of vigorous and vibrant workplaces*9			%	21.4	18.2	2
Governance [Nonconsolidated]	No. of internal reports made				49	35	
Local contribution	No. of youth development*10			People	1,627	1,288	
[Nonconsolidated]	No. of information get-togethers with local community			Place	13	13	
	No. of participants in region cleanup activities			People	4,861	3,178	7

*1 Acronym that stands for environmental, social and governance. Used as an indicator to determine whether or not a company can grow sustainably. *2 Amount of CO2 reduction in the use stage of product by environmental design. The amount calculated globally is shown in a single year. The calculation method

has been partially changed since FY2016 *3 Figure is calculated based on the number of products designed by JTEKT therefore products produced overseas are included. *4 Nonconsolidated

*5 R&D costs included in general administrative costs and manufacturing costs.

*6 Starting from the disclosures for fiscal 2018, the information is disclosed on a nonconsolidated basis, including historical data. *7 The Quality Denshokan (Quality Museum) started on JTEKT's internal website in fiscal 2018; the figures listed are number of visits to the site during Quality Month.

*8 Surveys of the level of understanding were not conducted in fiscal 2020.

*9 Based on internal employee survey results

*10 Number of participants of elementary school, junior high school, and high school students

Third-Party Evaluations

In light of our efforts and information disclosure in the ESG areas, JTEKT has been selected for inclusion in FTSE Russell's FTSE4Good Index Series, FTSE Blossom Japan Index, and SOMPO Asset Management Co., Ltd.'s SOMPO Sustainability Index.

Also, within the corporate survey conducted by CDP^{*11}, in fiscal 2020 we received an A- in the climate change and A- (up from B in fiscal 2019) in the water security categories.

Going forward, through our CSR activities, we will contribute to sustainable societies and strive to sustainably enhance our corporate value.

*11 CDP: Representing global institutional investors, the NGO CDP provides information of corporate activities with regard to climate change, water, and forest resources, using an eight-level assessment (A–D) with regard to company responses.

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FTSE Blossom Japan



https://www.ftserussell.com/ja

