

Environmental Report

Relationship with SDGs



Materiality items

1. Contribute to conserving the global environment (including climate change response)

Specific initiatives

1. Reduce the environmental impact of products and services
2. Promote recycling
3. Promote energy saving
4. Pursue carbon neutrality

KPIs

1. Develop environmentally-friendly products and services
2. Promote investment to conserve resources and energy
3. Recycling rate: 95% or more
4. Reduce energy consumption by product intensity: 1% or more
5. Achieve net zero CO₂ emissions by 2040

Environmental Vision, Management Structures, and Education System

Environmental Vision Help conserve the global environment by practicing sustainable manufacturing and providing eco-conscious products and services

To make the Environmental Vision a reality, the TATSUTA Group has established the Quality and Environment Policy. Guided by the policy, we seek to achieve carbon neutrality by 2040, reduce the environmental impact of products and services, and promote recycling and energy saving, among other initiatives.

Quality and Environment Policy

In keeping with the Quality and Environment Policy below, TATSUTA undertakes specific initiatives to reduce the environmental impact of products and services, promote recycling and energy saving, and prevent global warming (reduce CO₂ emissions).

- 1 In order to ensure that the Corporate Principles are upheld and in line with our Corporate Code of Conduct, we will implement initiatives that continuously and appropriately improve the business process, improve products and services, and promote environmental preservation.
- 2 Based on the requirements for the ISO standards, we will build quality and environment management systems and by implementing these systems, comply with applicable laws and customer requirements.
- 3 TATSUTA will identify risks which must be addressed and by responding to them, take up initiatives that will improve quality, prevent pollution, and preserve the environment.
- 4 TATSUTA will maintain its quality and environment management systems and continuously work to improve performance through the PDCA (Plan-Do-Check-Action) cycle.

Environmental management structures

The TATSUTA Group's structures for promoting environmental management systems (EMS) are composed of three main parts, with each part taking assigned roles according to the level of importance.

	Members	Secretariat	Main roles
Top Management Committee	President, General Managers, etc., and Environmental Management Administrator	ISO Office	Determine basic EMS matters; determine and review Environment Policy and approve environmental targets; and check and review EMS operating status, etc.
Environmental Management Promotion Committee	Personnel responsible for environmental management and personnel responsible for environmental management promotion	Environment & Safety Administration Department	Establish and maintain EMS; assess the status of implementation and operation; establish, review and manage environmental targets, etc.
Districts, offices, etc.	Personnel responsible for environmental management promotion	Departments in charge of environmental management promotion	Establish action plans to reduce environmental impact within each group, and implement activities in accordance with these plans, etc.

TATSUTA is also actively engaged in environmental conservation activities through structures for EMS that are integrated with Tatsuta Environmental Analysis Center, TATSUTA Welfare Service, Tatsuta Tachii Electric Cable, and Chugoku Electric Wire & Cable, which are located in the same site with TATSUTA Electric Wire & Cable.

Environmental education system

TATSUTA implements environmental education for all its employees in order to deepen their understanding of environmental conservation activities and thoroughly embed activity rules.

Education for new recruits	New recruits receive introductory training to familiarize themselves with the Quality and Environment Policy, environmental conservation initiatives such as energy conservation and waste reduction, and related rules.
Specialist education	Specialized education is carried out whenever appropriate for employees engaged in specific activities such as those subject to laws and regulations, including specially controlled industrial waste managers.
Participation in external seminars on the environment	Employees participate whenever appropriate in external lectures and seminars, such as symposiums on environmental conservation and recent international trends, in order to bring back information on environmental conservation including laws, regulations, technologies, and new initiatives to the Group. In the Osaka district, the Environmental Management Promotion Committee implements workshops on the SDGs.
General education and awareness programs	Education is implemented for all employees on the Quality and Environment Policy, laws, regulations, and bylaws relating to environmental targets and environmental conservation activities, as well as environmental issues that relate to TATSUTA's businesses such as the handling of chemicals. For example, various initiatives are implemented every year in June, Japan's Environment Month, to raise awareness of measures for energy saving. These include inviting employees of all Group companies to submit suggestions for an energy-saving awareness slogan, or inviting employees at the Kyoto Works to submit energy-saving proposals based on the theme of the month and educating them on the Quality and Environment Policy.
Education for internal audit personnel	Internal audit personnel are educated through external training or by internal instructors. Audit personnel who have acquired internal qualifications are given hands-on training through participation in actual internal audits with the aim of enhancing their abilities. During the fiscal year ended March 31, 2021, we continued to make efforts to increase the number of audit personnel qualified in both EMS and quality management systems (QMS).

Specific Initiatives

Reduce the environmental impact of products and services

At TATSUTA, we are striving to develop new and improved environmentally-friendly products in order to effectively reduce environmental impact. Through the business activities of Tatsuta Environmental Analysis Center, we also work to reduce substances that burden the environment.

Electric wire and cable business: Environmentally-friendly products

Eco-friendly electric wire and cable

When electric wires and cables are disposed of, their coatings mostly end up as industrial waste. In particular, there is concern over the impact on the environment of harmful substances released by vinyl chloride coatings when they are incinerated.

Eco-friendly electric wires and cables boast the same level of fire resistance as conventional vinyl chloride-coated products but are environmentally-friendly, utilizing highly-recyclable coatings and containing no halogen elements, lead, and other heavy metals.

Features of environmentally-friendly products	Details
Safe to dispose of by incineration	There is no risk of harmful dioxins being emitted during incineration. They do not produce acid gases such as chlorine gas and do not corrode the incinerator.
Fire-resistant and low-fuming	These products boast the same self-extinguishing properties as vinyl cable, and are flame-retardant. They also produce little smoke, helping to ensure visibility in the case of fire.
Recyclable	These products can be recycled through material recycling or thermal recycling using heat energy generated through incineration.
Chemical-resistant	The use of polyethylene-based coatings provides outstanding chemical-resistant properties.



かるまげ™ (Karu Mage) (KM-CC) 600V fire-resistant flexible crosslinked polyethylene eco-friendly cable

With halogen-free and environmentally-friendly specifications, these electric wires and cables maintain a smoke density of 150 or less, and use highly-recyclable coatings.

- Features of かるまげ™ (Karu Mage) (KM-CC)**
1. Using 0.45 mm element wires, KM-CC is extremely easy to handle and significantly enhances workability, particularly when wiring in narrow places.
 2. No substances under RoHS 2 (10 substances) are intentionally included.



ネットタフ115™ (Netsu Tough 115) ((S) HKIV) special heat-resistant vinyl-insulated electric wire for electric devices

NETSU ネットタフ115™ (Netsu Tough-115) features insulating material with an increased heat-resistant temperature. It enables to make the size of electric wires smaller compared to previous products, leading to resource savings.

- Features of ネットタフ115™ (Netsu Tough 115) ((S) HKIV)**
1. With a high allowable current capacity, ネットタフ115™ (Netsu Tough 115) NETSU Tough-115 enables reductions in the size of conductor and amount of copper used.
 2. By utilizing a conductor of smaller size, it enables a reduction in the amount of insulation material used.
 3. As a result of 1. and 2. above, it facilitates the efficient use of wiring space.
 4. No substances under RoHS 2 (10 substances) are intentionally included.



EM-TLFC110 eco-friendly fire-resistant flexible crosslinked polyethylene insulated electric wire, heat resistant to 110°C

EM-TLFC110 is a flexible electric wire using highly-recyclable coating material. It has outstanding heat tolerance, with smaller sized electric wires than the IV or KIV, leading to resource savings.

- Features of EM-TLFC110**
1. EM-TLFC110 uses eco-friendly, fire-resistant, crosslinked polyethylene material.
 2. By making the size of conductor smaller, it enables a reduction in the amount of copper and insulation material used.
 3. As a result of 1. and 2. above, it facilitates the efficient use of wiring space.
 4. Box packaging enables storage space savings.
 5. No substances under RoHS 2 (10 substances) are intentionally included.



GT-Lead high-durability lead wire for plating barrels

GT-Lead uses a flex-type conductor and uses a special urethane in the protective layer to enhance durability, with the aim of saving resources.

- Features of GT-Lead**
1. More than twice as durable as previous products* due to the use of a special urethane in the protective layer (* compared in-house).
 2. Reduces production line stoppages to replace damaged lead lines, enabling productivity enhancements and total cost reductions.
 3. Flexibility has been improved through the use of a flexible-type conductor, resulting in higher workability.
 4. No substances under RoHS 2 (10 substances) are intentionally included.

* ネットタフ115™ is a trademark of Tatsuta Electric Wire and Cable Co., Ltd., registered in Japan.

■ FIT Series

The new FIT Series features products responding to diverse customer requests for NETSU Tough-115, TLFC and GT-Lead. Utilizing a small-diameter conductor to achieve both flexibility and formability, it is designed to save resources.

Features of the FIT Series

1. Use less coating material than previous products by achieving a smaller diameter.
2. Wiring and terminal processing workability is improved.



■ New Slat Cable

Until now, "vinyl" has been the main material used in insulators for drop cables. The New Slat Cable uses environmentally-friendly "black crosslinked polyethylene" insulator instead, which contains no chlorine.

Features of New Slat Cable

1. New Slat Cable contains less vinyl material which may have a negative impact on the environment when incinerated.
2. With enhanced weather-resistant characteristics when laid, the cable is more resilient against the effects of temperature changes, water, etc.
3. Enhanced heat-resistance when applying electricity has enabled the cable to be down-sized.



■ ドコサンミハール™ (Doko San Miharu) (acid leakage location detection sensor)

Regular inspections of places that cannot be inspected visually are required under the Water Pollution Prevention Act. ドコサンミハール™ (Doko San Miharu) DOKOSAN-MIHARU enables swift detection of the position of acid leakages, even for locations that cannot be seen.

Features of ドコサンミハール™ (Doko San Miharu)

1. Sulfuric acid, hydrochloric acid, and nitric acid—a diverse lineup for every application.
2. Possible to be installed on existing equipment.
3. Separate wiring for the power source. Can be joined using a connector, facilitating easy laying and maintenance.
4. Senses leaks in around four minutes. * When 98% concentration of sulfuric acid is dripping (25°C).
5. Can be installed outside.

* "ドコサンミハール" is a trademark of Tatsuta Electric Wire and Cable Co., Ltd., registered in Japan.

Electronic materials & system equipment business: Environmentally-friendly products

Electronic materials We develop our electronic materials with attention to environmental compatibility, which is epitomized by halogen-free, Restriction of the Use of Certain Hazardous Substances (RoHS), UL, and lead-free reflow soldering.

Enhanced environmental compatibility of electronic materials	Halogen-free	Containing no halogens such as chlorine, there is no concern for these materials emitting dioxins and toxic gases when burned.
	RoHS 2	They do not contain the designated hazardous substances that have a negative impact on the environment and human body: lead, cadmium, mercury, hexavalent chromium, the designated bromine-based flame retardants polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE), and four phthalates.
	UL	UL94 is a United States testing standard. VTM-0 tests the vertical flammability of thin plastics, and V-0 tests vertical flammability. Both tests are graded at three levels, V-0 to V-2, from least to most flammable. The tests assess features such as whether the material will suppress the spread of flame and help to extinguish the fire.
	Lead-free reflow soldering	Lead-free solder is a vital part of RoHS compliance for electronic circuits. While soldering to mount components onto the printed circuit board is difficult through the mainstream reflow processing, this material is compatible with lead-free soldering.



■ SF-PC8900-C high-frequency-compatible thin EMI shielding film

By retaining the structure of the previous model's thin electromagnetic interference (EMI) shielding film (SF-PC5900-C) while increasing the thickness of the shield layer, we achieved the production of a thin EMI shielding film that enhances electric characteristics in the high-frequency range. This range is vital for 5G communications, which are forecast to spread extensively in the future.

In addition to providing high-performance shielding in the high-frequency range, SF-PC8900-C also demonstrates higher performance than previous products in terms of mechanical characteristics such as crease performance. It is thus considered increasingly for a possible use in flexible printed circuit boards for components of displays, camera modules, hinges, etc.

In terms of the environment, SF-PC8900-C has attained UL94 flammability class VTM-0, while also being halogen-free. It also complies with RoHS.

Features of SF-PC8900-C

1. Halogen-free, and attained UL94 VTM-0. Also complies with RoHS.
2. With a total thickness of 8 μm, it achieves high-performance shielding in the high-frequency range.
3. Outstanding mechanical characteristics such as crease performance.

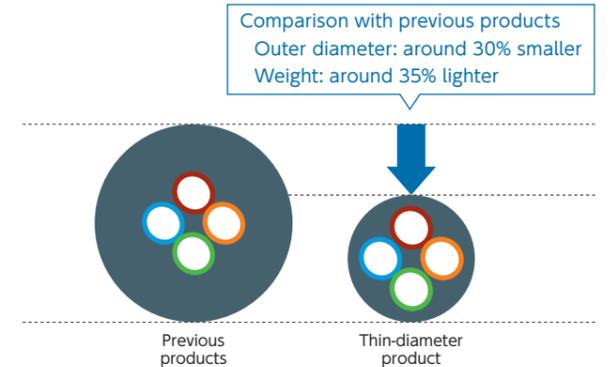
Equipment wire and cable business: Environmentally-friendly products

Thin-diameter KORIKI™ high-strength cables for FA robots

We have been providing high-strength cables that use high-tensile alloy conductors, to enable usage in harsh environments where complicated movement is required, such as in industrial robots and FA equipment. We are also developing thin-diameter KORIKI™ high-strength cables, suited for use in space-saving wiring applications such as equipment miniaturization, robots with limited wiring space, cableveyor, etc.

This enables wiring space reductions, flexible wiring and layout while retaining the outstanding flex durability of previous products.

These features facilitate weight reductions, miniaturization and space savings in robots and other applications, and also contribute to resource savings through longer product life, which is a characteristic of high-strength cables.



* "KORIKI" are trademarks of Tatsuta Electric Wire and Cable Co., Ltd., registered in Japan.

Features of thin-diameter high-strength cables	Maintain superior flex and twist durability with slim body and surprising durability	Flex and twist durability are the same or higher than previous high-strength cables (based on in-house test data).
	Excellent terminal workability	Workability of connector and wire harness assemblies improved by limiting use of filler and binding wherever possible inside the cable. This also leads to less fabrication waste.
	Superior space-saving properties	Thinner cable made possible by reducing the outer diameter by approximately 30% and the cross-section area by approximately 50% (compared to our previous products).

TOPIC

Establishment of an eco-friendly production method for rubber cable

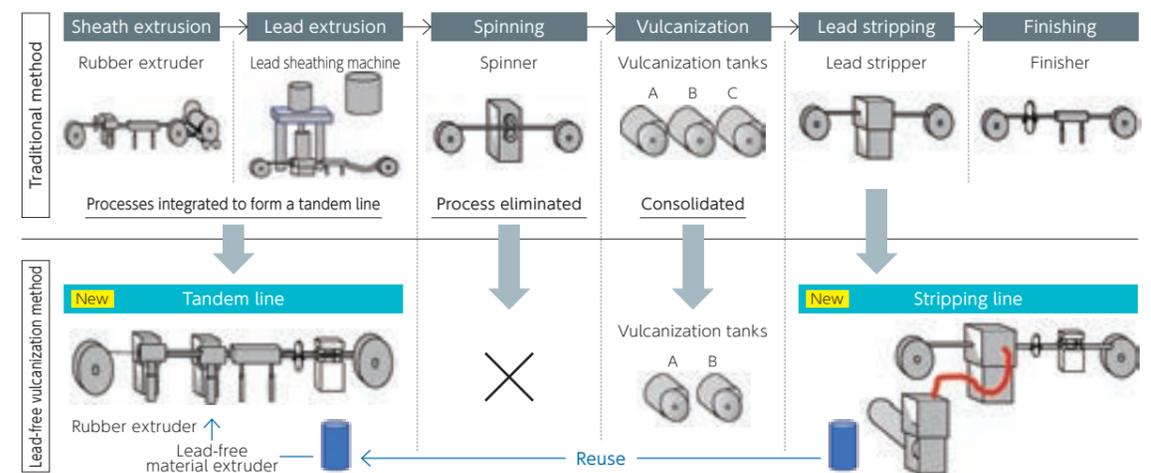
Chugoku Electric Wire & Cable traditionally relied on the lead vulcanization method whereby rubber cable cables are sheathed with lead and the sheaths vulcanized. Recently, however, the company has switched to a lead-free vulcanization method. The new production method not using lead enables the company to reduce environmental risks and shorten lead times.

Lower environmental risks

The lead-free vulcanization method allows for the production of eco-friendly rubber cable cables that fully comply with RoHS and REACH regulations.

Shorter lead times

The tandem extrusion of rubber sheaths and lead-free vulcanization material, among other improvements, leads to shorter production processes and thereby shorter lead times.



Tatsuta Environmental Analysis Center's environmental analysis business



Dioxins analysis

Providing highly-reliable analysis through strict quality control in as little as two business days

Dioxins are extremely toxic and harmful substances. A precision control system and advanced technical capabilities for ultra-trace analysis are required to analyze them. At TATSUTA, we have strived to enhance our capabilities with a full range of the latest devices, and can complete an analysis in as little as two days.



Working environment measurement

Providing one-stop services for integrated working environment management from regular measurement to workplace improvement proposals

For indoor workplaces that manufacture or handle harmful substances subject to laws or regulations such as the Industrial Safety and Health Act, it is necessary to implement regular measurement and evaluation of the working environment, and appropriate improvements based on the results. At TATSUTA, we are engaged in working environment management together with our customers that ranges from evaluation, including measurement of the concentration of welding fumes, to improvement of working environments.



PCB analysis

Providing broad-scope PCB analysis based on a proven track record, with the capability to analyze trace PCBs in as little as one business day

In addition to trace polychlorinated biphenyls (PCBs) in transformer oil, insulation oil, pressure sensitive paper and film, we also have the capability to analyze PCBs in water, air and soil, as well as cloth, tools and containers.



Soil contamination investigation

Fully utilizing our accumulated technologies, experience and expertise to accurately determine levels of contamination with heavy metals, volatile organic compounds, etc.

Investigations based on the Soil Contamination Countermeasures Act are required for redevelopment or land sales involving former plant sites, etc. As a certified Designated Investigation Institution, we collect accurate data on factors such as the concentration and distribution of contaminating substances, and evaluate the degree of contamination, playing an important role in the effective use of land.



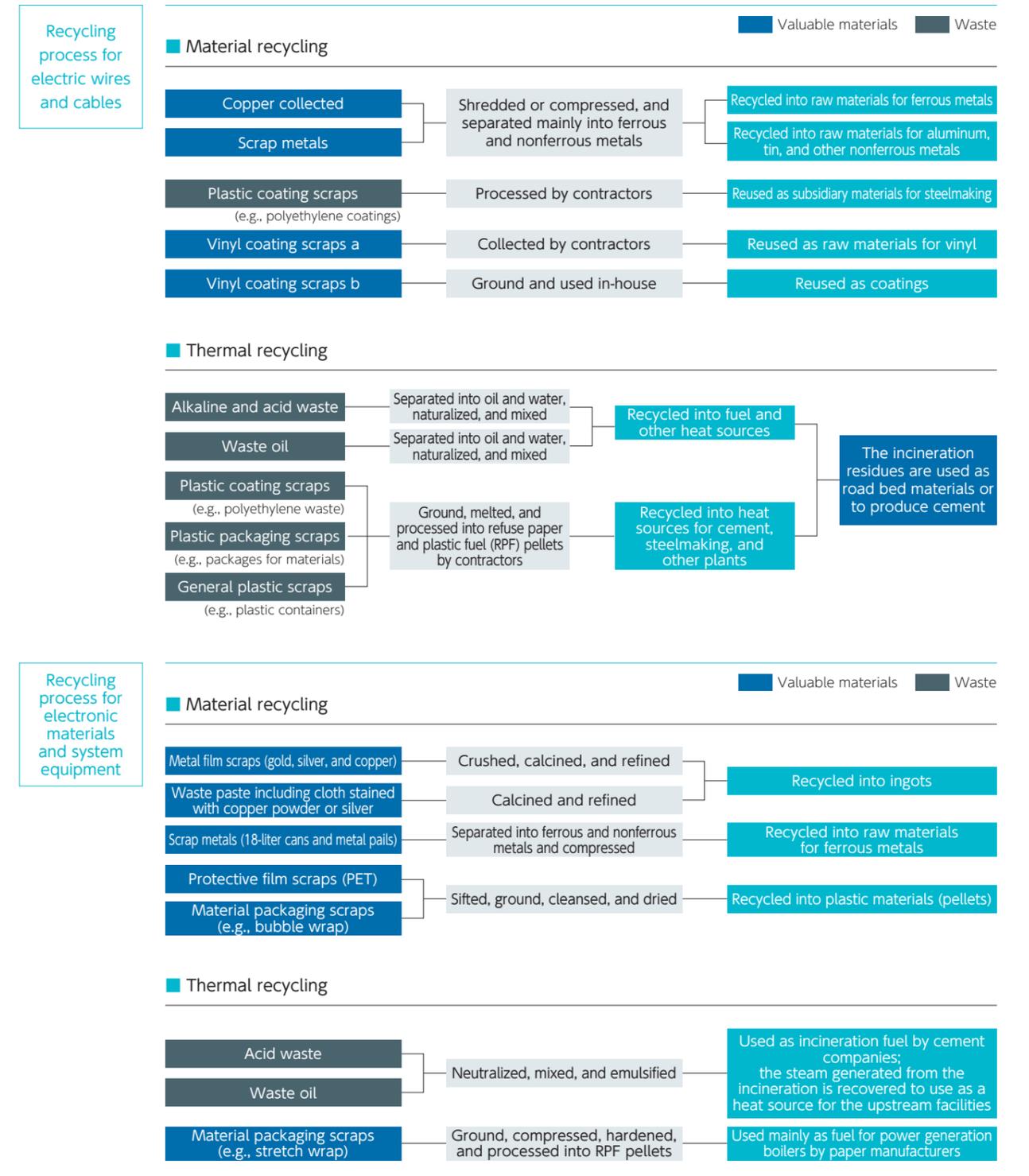
Analysis of products and materials

Responding to diverse needs through services including the analysis of substances that impact the environment, such as the RoHS substances, and materials composition analysis

We make full use of multiple analysis techniques and insights gained through extensive experience, including morphological observation, composition analysis, and evaluation of material characteristics, to solve a range of issues related to products, components, and materials.

Promote recycling

At TATSUTA, we engage in recycling and the effective utilization of waste, by collecting and recycling gold, silver, and copper, which we use as raw materials as well as by converting mixed waste of metal and plastic to valuable materials.



Pursue carbon neutrality

TATSUTA views combatting climate change as a key challenge and aims to achieve carbon neutrality by 2040. Toward that end, we will make investments and take other actions to conserve energy and utilize renewable energy sources.

Renewable energy

The TATSUTA Technical Center (TTC) installed 192.5-watt solar power modules in 2013, utilizing the feed-in tariff scheme. Annually, the modules generate 216,000kWh of electricity (equivalent to around 54kl crude oil), which corresponds to some 6% of TTC's energy use. In terms of CO₂ emissions, the electricity generated is equivalent to reducing CO₂ emissions by 76 tons per annum.

Reducing CO₂ emissions through energy saving

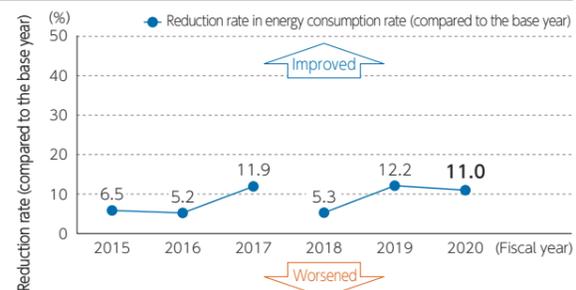
As a means of reducing CO₂ emissions in the near term, TATSUTA has set a goal of reducing energy consumption per unit of production by 1% or more on a year-on-year basis. Each operational site has been working toward this goal.
For the fiscal year ended March 31, 2021, TATSUTA achieved the goal, reducing its company-wide energy consumption per unit of production by 3.0%; it also lowered CO₂ emissions by 7.1%.

CO₂ emissions (Unit: ton)

District	Fiscal year ended March 31, 2019	Fiscal year ended March 31, 2020	Fiscal year ended March 31, 2021
Head Office and Osaka Works	13,239	11,601	10,578
Kyoto Works	2,005	1,747	1,839
TATSUTA Technical Center	1,795	1,468	1,441
Sendai Works	4,503	4,474	4,342
Total	21,542	19,290	18,200

CO₂ emission reduction results (three-year plan based on Osaka Prefecture ordinance)

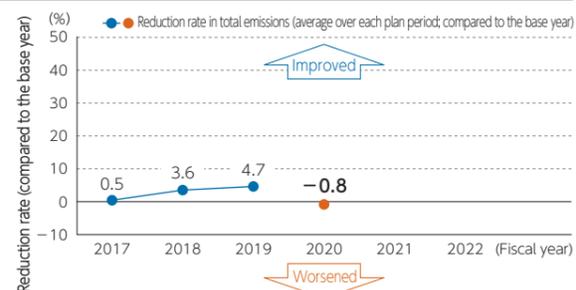
The Head Office and Osaka Works worked toward a target reduction in energy consumption rate against the base year of 3.2 percentage points or greater for the final year of the reduction plan (the fiscal years ended March 31, 2019-2021). The results for the final year of the plan period surpassed the target, achieving a reduction of 11.0 percentage points compared to the base year.



* The graph shows the results for each reduction plan period: fiscal years ended March 31, 2016-2018 and fiscal years ended March 31, 2019-2021.

CO₂ emission reduction results (three-year plan based on Kyoto Prefecture ordinance)

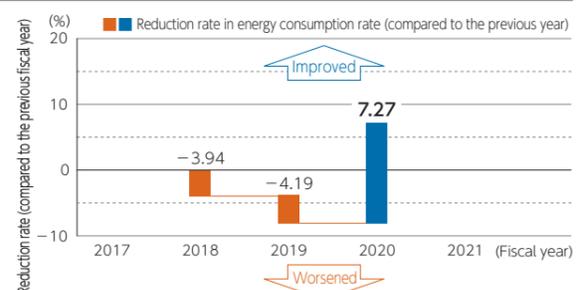
The TATSUTA Technical Center and Kyoto Works work toward a target reduction in total emissions against the base year of 3.9 percentage points or greater for the final year of the reduction plan (the fiscal years ending March 31, 2021-2024). The results for the first year of the current reduction plan period increased slightly compared to the base year, by 0.84 percentage points.



* The graph shows the results for each reduction plan period: fiscal years ended March 31, 2018-2020 and fiscal years ending March 31, 2021-2024. The TATSUTA Technical Center has been covered by the reduction plan since the fiscal year ended March 31, 2018.

CO₂ emission reduction results (based on a voluntary plan established by the Sendai Works)

The Sendai Works established a target reduction in energy consumption rate per unit against the previous fiscal year of 1 percentage point or greater under a voluntary reduction plan. Despite a significant impact from fixed energy-consuming facilities, efforts were made to practice efficient manufacturing. As a result, the Sendai Works reduced the energy consumption rate by around 7.3 percentage points, achieving the reduction target.



* Results begin from the fiscal year ended March 31, 2018 because the Sendai Works was completed in November 2016.

Note: Criteria for data evaluation differ for each reduction plan period. There is therefore no continuity between reduction plan periods.

TOPIC

The Osaka Works implemented renovation works for production equipment from the perspective of enhancing efficiency and energy savings. This resulted in an annual reduction of around 63,000kWh.

The Kyoto Works upgraded light fittings and air handling units, which led to reducing electricity usage by 22,000kWh and gas usage by 2,000m³, respectively.

Meanwhile, the Sendai Works introduced a cogeneration system, which produced the effect of 767,000kWh. It also replaced steam boilers with a fewer number of smaller models, resulting in a gas usage reduction of 64,000m³.

Osaka Works



Kyoto Works



Sendai Works



Properly manage and reduce chemical substances

Decommissioned equipment using PCBs are stored and managed internally as specially controlled industrial waste, and systematically disposed of as planned in accordance with disposal methods stipulated by the government of Japan.

In March 2021, we transported all the 1,240 pieces of equipment containing high concentrations of PCBs to Japan Environmental Storage & Safety Corporation (JESCO), where they were disposed of.

* A total of 966 stabilizers, 37 neon transformers, and 237 lighting capacitors.



Efforts for biodiversity conservation

In order to maintain biodiversity, we avoid using raw materials containing chemical substances harmful to living creatures as much as possible in our products. At the same time, we also regard it as important for our employees to feel a connection with living creatures and nature through their everyday work and corporate activities. At TATSUTA, we are doing what we can to ensure that the blessing of biodiversity is passed on to future generations.

<p>Participating in the activities of the IKOMA no MORI Forest Consortium</p>	<p>The IKOMA no MORI Forest Consortium, in which we also participate, is engaged in forest conservation works at Yakkanba Forest (the name given to the location of the Consortium's activities), thinning the densely-growing trees to allow sunlight to penetrate and improve airflow. For the fiscal year ended March 31, 2021, however, its activities were cancelled to prevent the spread of COVID-19.</p> <p>The IKOMA no MORI Forest Consortium is composed of companies, universities, NPOs and administrative bodies in Higashiosaka City, and aims to revitalize forests of Mt. Ikoma that have degenerated due to a lack of maintenance by the people, and make them rich forests again.</p>
<p>Local production for local consumption at the TATSUTA Technical Center and Kyoto Works</p>	<p>We have requested the cooperation of the contractor providing lunch at the employee cafeteria to create menus using local ingredients such as vegetables. The quality and availability of ingredients depends on weather conditions, but employees are enjoying the taste of the blessings of nature and the foods of the season.</p>
<p>Sunflowers and vegetable gardening</p>	<p>At the Kyoto Works, sunflowers have been grown from the seeds received for the repose of the victims of earthquake. The employees have carefully looked after the sunflowers, watering them daily and looking forward to the beautiful flowers. Their hard work paid off in 2020, too, with the magnificent blooms.</p>  <p>In the fiscal year ended March 31, 2021, the Sendai Works started vegetable gardening in earnest as part of its site greening initiative. The garden has yielded cherry tomatoes, cucumbers, potatoes, onions, and other seasonal vegetables. Sharing the produce with employees helps inspire conversations about the changing seasons.</p> 

Green procurement

As a company regarding environmental conservation activities as one of the most important management challenges, TATSUTA has developed Green Procurement Guidelines in an effort to provide products with lower environmental impacts. These guidelines are designed to reduce our ecological footprint, advance environmental conservation activities, and help create a sustainable recycling-based society. The means to these ends include identifying chemicals contained in the raw materials, parts, subsidiary materials, subcontracted supplies, and other items we purchase from business partners; and prioritizing the purchase of items not containing hazardous chemicals.

In light of the fact that the trade of conflict minerals finances armed groups committing atrocities in countries bordering conflicts, these guidelines also stipulate that we investigate business partners to prevent us from purchasing raw materials, products, and such that contain conflict minerals and their derivatives.

Environmental Data

Head Office and Osaka Works

1. Atmospheric and water-related (data for the fiscal year ended March 31, 2021)

	Facility name	Item	Unit	Regulation level	Measured value (maximum)
Atmospheric	Natural gas boiler	NOx concentration	ppm	150 or lower	48
		NOx emissions	kg	—	1,116.2
		Particulate matter	g/Nm ³	0.05 or lower	0.03
Water	Sewage	pH (Note)	—	More than 5.7 and less than 8.7	6.7~8.6
		BOD	mg/L	Less than 300	180
		n-hexane extraction (mineral oils)	mg/L	5 or lower	4

2. Results of PRTR investigation (the fiscal year ended March 31, 2021; chemical substances for which the amount handled by the facility exceeded 1 ton)

No. (PRTR Law)	Substance name	Amount emitted (ton)	Amount transported (ton)
Class I - 31	Antimony and its compounds	0	1
Class I - 239	Organic tin compounds	0	0.03
Class I - 305	Lead compounds	0	0.12
Class I - 330	Dicumyl peroxide	0	0.32
Class I - 355	Bis (2-ethylhexyl) phthalate	0	17

(Note) pH indicates a range.
* The Regulation level for water is in accordance with the Higashiosaka City sewage ordinance.

Kyoto Works

1. Atmospheric and water-related (data for the fiscal year ended March 31, 2021)

	Facility name	Item	Unit	Regulation level	Measured value (maximum)
Water	Sewage	pH (Note)	—	More than 5.7 and less than 8.6	6.9
		BOD	mg/L	Less than 300	38
		n-hexane extraction (mineral oils)	mg/L	5.0 or lower	Less than 1

2. Results of PRTR investigation (the fiscal year ended March 31, 2021; chemical substances for which the amount handled by the facility exceeded 1 ton)

No. (PRTR Law)	Substance name	Amount emitted (ton)	Amount transported (ton)
Class I - 82	Silver and its water-soluble compounds	0	0
Class I - 300	Toluene	1.6	0

(Note) pH indicates a range.
* The Regulation level for water is in accordance with the environmental conservation agreement with Fukuchiyama City.

TATSUTA Technical Center

1. Atmospheric and water-related (data for the fiscal year ended March 31, 2021)

	Facility name	Item	Unit	Regulation level	Measured value (maximum)
Water	Sewage	pH (Note)	—	More than 5 and less than 9	7.3~8.6
		BOD	mg/L	Less than 3,000	270
		n-hexane extraction (mineral oils)	mg/L	5.0 or lower	2

2. Results of PRTR investigation (the fiscal year ended March 31, 2021; chemical substances for which the amount handled by the facility exceeded 1 ton)

No. (PRTR Law)	Substance name	Amount emitted (ton)	Amount transported (ton)
Class I - 82	Silver and its water-soluble compounds	0	0
Class I - 300	Toluene	0	1.2

(Note) pH indicates a range.
* The Regulation level for water is in accordance with the Kizugawa City public sewage ordinance.

Sendai Works

1. Atmospheric and water-related (data for the fiscal year ended March 31, 2021)

	Facility name	Item	Unit	Regulation level	Measured value (maximum)
Atmospheric	Natural gas boiler	NOx concentration	ppm	150 or lower	53
		NOx emissions	kg	—	1.2
		Particulate matter	g/Nm ³	0.1 or lower	Less than 0.02
Water	Sewage	pH (Note)	—	More than 5 and less than 9	7.9
		BOD	mg/L	Less than 600	150
		n-hexane extraction (mineral oils)	mg/L	5.0 or lower	Less than 1

2. Results of PRTR investigation (the fiscal year ended March 31, 2021; chemical substances for which the amount handled by the facility exceeded 1 ton)

No. (PRTR Law)	Substance name	Amount emitted (ton)	Amount transported (ton)
Class I - 82	Silver and its water-soluble compounds	0	0
Class I - 300	Toluene	0	17

(Note) pH indicates a range.
* The Regulation level for water is in accordance with the Taiwa Town sewage ordinance.