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- Environmental Preservation Costs

# Environmental Management System

## Sites Certified Under ISO 14001 (As of March 31, 2024)

Certificate of Registration No.	JP08/070484.00	
Number of Japanese sites registered	15	Corporate EMS Office, Head Office, Agatsuma Plant, Kumagaya Plant, Chiba Plant, Tatsuno Plant, Ooya Plant, Shingu Plant, Komatsushima Plant, Mishima Plant, Doi Plant, the Ina Technology Center, the Research Center, the Research Center's Advanced Technology Building, TOKYO LINTEC KAKO, INC.
Number of overseas sites registered	10	LINTEC (SUZHOU) TECH CORPORATION; LINTEC PRINTING & TECHNOLOGY (TIANJIN) CORPORATION; LINTEC ADVANCED TECHNOLOGIES (TAIWAN), INC.; LINTEC KOREA, INC.; LINTEC SINGAPORE PRIVATE LIMITED; LINTEC INDUSTRIES (MALAYSIA) SDN. BHD.; LINTEC INDUSTRIES (SARAWAK) SDN. BHD.; PT. LINTEC INDONESIA; MADICO, Inc.; LINTEC (THAILAND) CO., LTD.

### Reference

> LINTEC Group Quality, Environmental and Business Continuity Policies (Corporate Policies)

> Third-party Verification

# Internal Audit

## Number of personnel with internal auditor and mutual auditor qualifications

	Scope	FY2023
Number of auditors with internal auditor qualifications	Sites registered under ISO 14001	461
Number of auditors with mutual auditor qualifications	Sites registered under ISO 14001	77

Internal audit: An audit conducted at a site by an auditor affiliated with the site

Mutual audit: Audits conducted at two different sites, with an auditor affiliated with a site conducting the audit at another site

## Status of internal audits

	FY2023
Japan	All sites registered under ISO 14001
Overseas	All sites registered under ISO 14001

# Environmental Education

## Environmental education provided (in Japan)

Program	Total number of participants in FY2023
Awareness	5,603
Laws and regulations	91

## LINTEC environmental safety information issued

FY2023 (Number of issues)	21
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### ▼ Examples of information issued

環境ニュース

2023.4.17  
環境部 E23-001

**環境ニュース**

**リンテック蘇州の天平山中峰寺植樹活動**

2023年3月11日、蘇州新区天平山中峰寺にて、蘇州新区楓橋街組合主催の植樹活動として紅梅、海棠（カイドウ）を200本植樹しました。楓橋街の所属企業、組合から400人程度、リンテック蘇州からは40名（従業員17人、家族23人）が参加しました。









リンテック蘇州は、これからも生物多様性の保全活動を  
通じて生態系保護に貢献していきます。

以上

環境ニュース

2024.2.14  
環境部 E23-021

**環境ニュース**

**生物多様性活動：新宮サイト「原木シイタケ育成」⑤**

育成箱の作成と本伏せと収穫

<前回までの作業>

積層後、積層の穴（積層孔）と覆膜を乾かさないために、毎日、朝夕と水散布を行い、「仮伏せ」を実施。（仮伏せ実施期間：2023年4月16日～6月7日）

<育成箱の作成>

原木シイタケ育成の望ましい環境は、直射日光が当たらず、十分に雨が当たり、かつ通風が適度にあり、排水の良い場所になります。しかし、新宮事業所内に適当な場所がなく、育成に必要な環境を確保するため、育成箱を作成。



- ・発酵材料は、木材屑パレットをリサイクル活用（一部ではありますが・・・）
- ・外蓋は、遮光シートを結付

<本伏せ>

仮伏せしていたぼた木の腐布を取り除きます。

●ぼた木の状態



- ・右側写真2のぼた木は、菌糸が木口断面に現れ、

●冬場の管理

冬の寒さによりぼた木が凍ったり、霜が降りたりすることは、あまり良くない環境であるため、水やりをほぼ毎日していましたが、凍結リスクの低減と、春までになるべく菌糸の伸長を促すため、保温と保湿を目的として、ぼた木をビニール袋で覆い、水やりは状態を見ながら、2回/週程度で、ぼた木の樹皮全体が濡れるように散水管理を実施。



2023年12月26日時点の写真  
ぼた木をビニール袋で覆った状態。

（参考：屋外の場合、北風などの寒風に当たらない、暖かく湿度があり、雨の当たらない場所に置く）

●時季外れですが、シイタケ生えました！！

2024年1月19日に確認したところ、シイタケが1本生えていることを確認。



昨年実施の冬場対策としてぼた木をビニール袋で覆ったことで結果、生育に適した環境になったと推測されます。

<シイタケサイズ>

幅：約4cm  
長さ：約7cm

2024年1月22日に収穫。（かさの部分に少し痛みが見受けられたため、速めに収穫）



<収穫時シイタケサイズ>

幅：約5cm  
長さ：約9cm

<食べた感想>

収穫したその日に持ち帰り、オーブントースターで焼き醤油を少々かけていただきました。適度な歯ごたえとシイタケ特有の香りが鼻から抜けていき「これぞシイタケ」という感じでした。

「以降、1月29日時点でシイタケは生えておらず、今年の春先に期待」 以上

# Environmental Compliance

## Number of serious violations of environmental laws and regulations

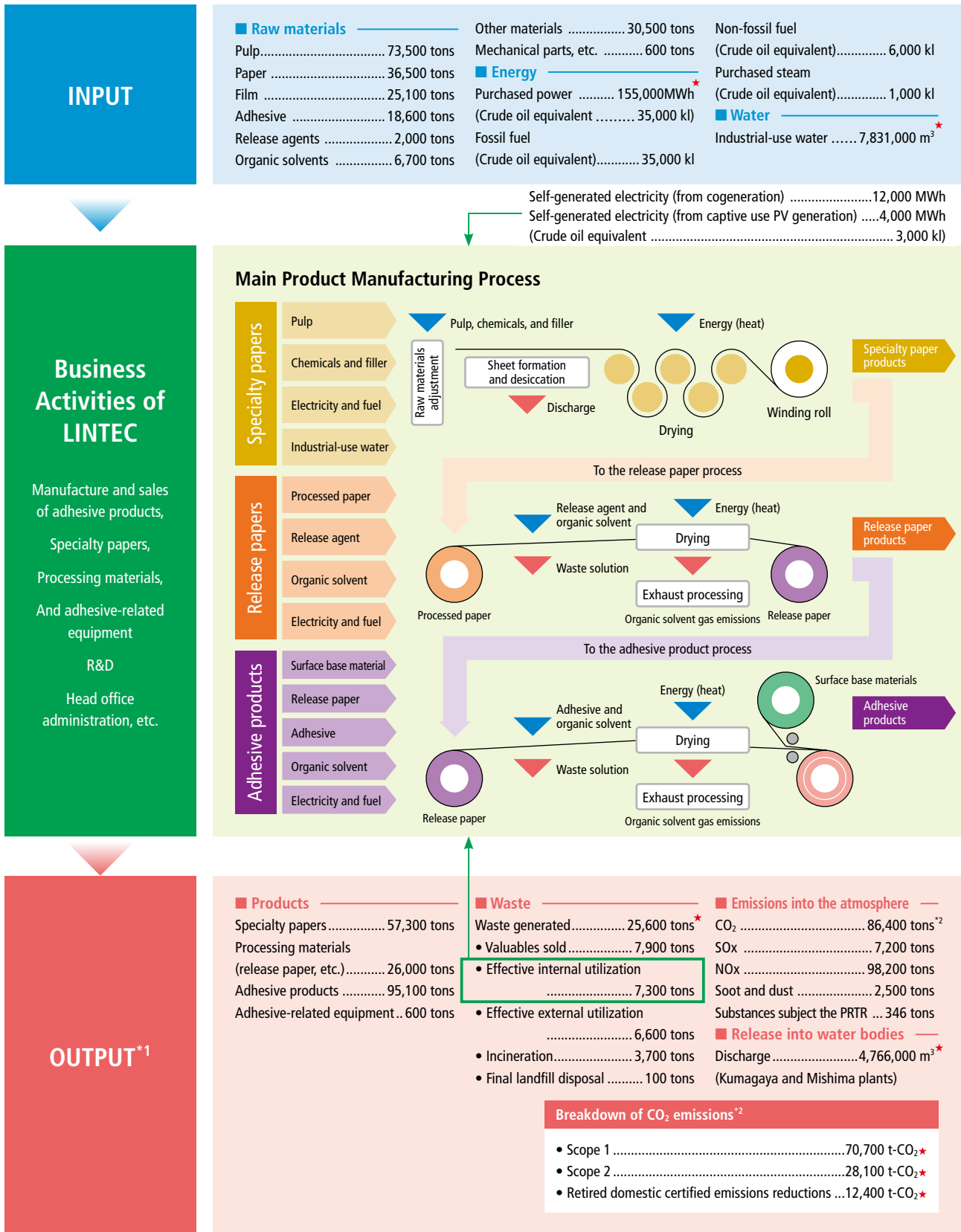
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In FY2023, there were no serious violations of environmental laws and regulations (fines or sanctions) at the following sites.\*

\*The Head Office, Agatsuma Plant, Kumagaya Plant, Chiba Plant, Tatsuno Plant, Shingu Plant, Komatsushima Plant, Mishima Plant (Doi Plant), the Ina Technology Center, the Research Center, TOKYO LINTEC KAKO, INC.

# Material Flow

## Fiscal 2023 Material Flow



# Guidelines for Environmentally Friendly Products

## Number of environmentally friendly product development projects

FY2018	FY2019	FY2020	FY2021	FY2022	FY2023
30	59	69	81	40	52

Organization covered: LINTEC CORPORATION

## Examples of environmentally friendly products

### Reference

> [News Release] Fluorine-Free Oil-Resistant Paper Responding to Growing Environmental Awareness

Note: Go to the Topics page.

> Eco-friendly Labelstock Wins Global Label Industry Award

Note: Go to the Topics page.

# Initiatives for Reducing CO<sub>2</sub> Emissions

- **Group's Roadmap for Reducing CO<sub>2</sub> Emissions**

- **Total Energy Use and CO<sub>2</sub> Emissions**

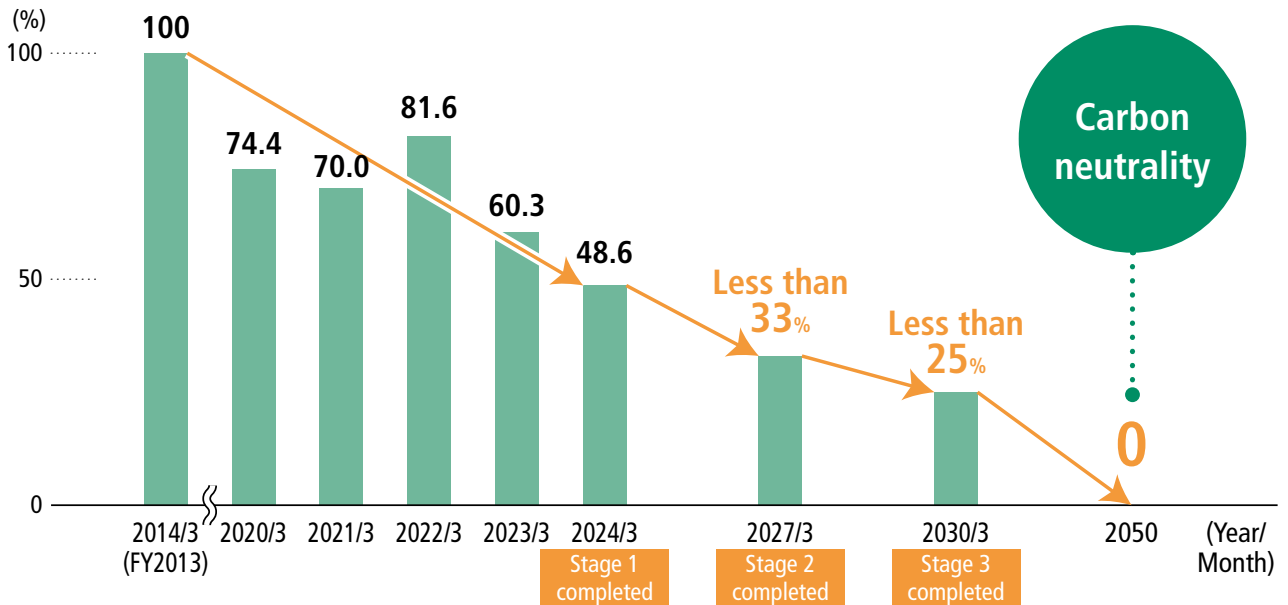
- Green electricity purchased
- Non-fossil energy ratio
- Total energy use (crude oil equivalent)
- Scope 1, 2
- Scope 3

- **Initiatives**

- Compliance with Japanese Energy Conservation Act
- Installation of solar power generation systems
- Introduction of co-generation systems
- Efforts to prevent the leakage of fluorocarbons
- Efforts in distribution

## Group's Roadmap for Reducing CO<sub>2</sub> Emissions

▼ Target for Scopes 1 and 2 (FY2013 level = 100%)





Initiatives for Reducing CO<sub>2</sub> EmissionsTotal Energy Use and CO<sub>2</sub> Emissions

## Green electricity purchased

	FY2019	FY2020	FY2021	FY2022	FY2023
Green electricity purchased (GWh)	36	34	35	80	91
Calorie equivalent (thousand GJ)	352	335	342	778	790
Reduction effects of green electricity (1,000 t-CO <sub>2</sub> )	16.9	16.1	16.0	33.8	41.0
Reduction effects of investment in reducing CO <sub>2</sub> (t-CO <sub>2</sub> ) (Cumulative values from fiscal 2019)	43	2,774	7,140	9,372	14,208

Notes: 1. Calculated on the basis of the Energy Conservation Act (CO<sub>2</sub> emissions coefficient of the business operator)

2. Calculated on the basis of the Energy Conservation Act (Act on Promotion of Global Warming Countermeasures)

Organizations covered: LINTEC CORPORATION and its sales sites; LINTEC SIGN SYSTEM, INC. (the premises of the LINTEC CORPORATION Head Office); SHONAN LINTEC KAKO, INC.; LINTEC SERVICES, INC.; LINTEC CUSTOMER SERVICE, INC. (the premises of the Ina Technology Center of LINTEC CORPORATION); TOKYO LINTEC KAKO, INC.

## Non-fossil energy ratio

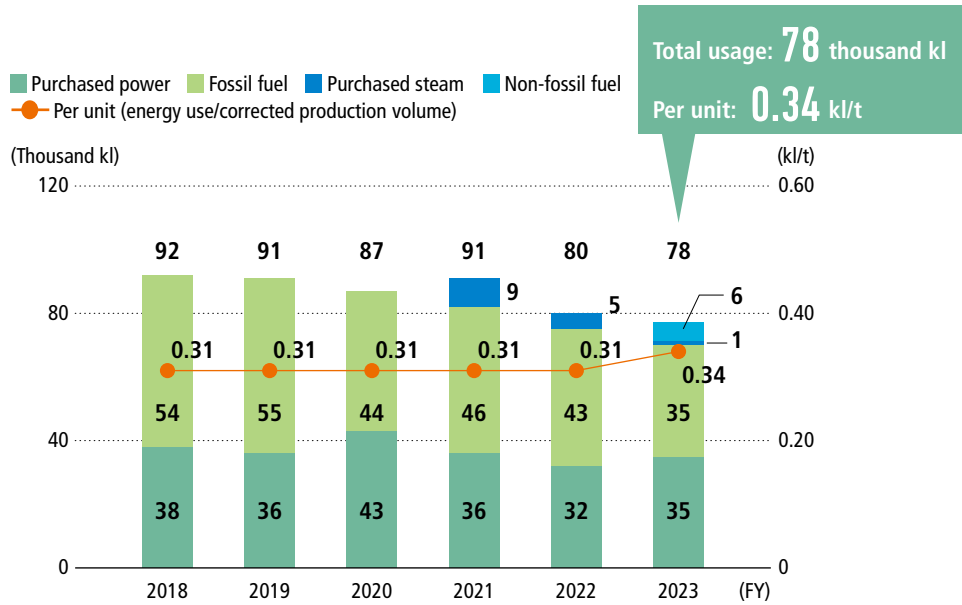
FY2022	FY2023
29.60%	35.05%

Note: Non-fossil energy (RPF) has been added since FY2023 due to a revision to the Energy Conservation Act.

Organizations covered: LINTEC CORPORATION and its sales sites; LINTEC SIGN SYSTEM, INC. (the premises of the LINTEC CORPORATION Head Office); SHONAN LINTEC KAKO, INC.; LINTEC SERVICES, INC.; LINTEC CUSTOMER SERVICE, INC. (the premises of the Ina Technology Center of LINTEC CORPORATION); TOKYO LINTEC KAKO, INC.

Initiatives for Reducing CO<sub>2</sub> Emissions

Total energy use (crude oil equivalent)



Note: Non-fossil energy (RPF) has been added since FY2023 due to the revision of the Energy Conservation Act.

Organizations covered: LINTEC CORPORATION and its sales sites; LINTEC SIGN SYSTEM, INC. (the premises of the LINTEC CORPORATION Head Office); SHONAN LINTEC KAKO, INC.; LINTEC SERVICES, INC.; LINTEC CUSTOMER SERVICE, INC. (the premises of the Ina Technology Center of LINTEC CORPORATION); TOKYO LINTEC KAKO, INC.

Scope 1, 2

Japan

(t-CO<sub>2</sub>)

	FY2013	FY2019	FY2020	FY2021	FY2022	FY2023
Scope 1	112,200	90,332	85,385	88,998	83,639	70,661*
Scope 2	90,486	72,727	62,577	76,409	35,779	28,084*
J-Credit				6,500	6,500	12,000*
Green heat certificate					406	383*
Calculated emissions	202,686	163,059	147,962	158,907	112,512	86,362

Organizations covered: LINTEC CORPORATION, TOKYO LINTEC KAKO, INC., SHONAN LINTEC KAKO, INC., and LINTEC SERVICES, INC.

Figures marked with \* were subject to third-party verification performed by SGS Japan Inc.

> Click here for details on data marked with \*.

Initiatives for Reducing CO<sub>2</sub> Emissions

## Overseas

(t-CO<sub>2</sub>)

		2013	2019	2020	2021	2022	2023
LINTEC (SUZHOU) TECH CORPORATION	Scope 1	1,772	1,972	1,046	377	374	286
	Scope 2	3,189	2,502	2,835	3,624	2,815	2,326
	Total	4,961	4,473	3,882	4,001	3,189	2,611
LINTEC SPECIALITY FILMS (TAIWAN), INC.	Scope 1	2,969	280	362	555	229	69
	Scope 2	1,751	3,928	3,926	3,861	2,479	2,480
	Total	4,720	4,208	4,288	4,416	2,709	2,549
LINTEC KOREA, INC.	Scope 1	2,505	2,785	2,635	2,850	2,770	2,499
	Scope 2	3,835	3,811	3,724	3,849	3,772	3,830
	Total	6,340	6,596	6,359	6,700	6,542	6,329
LINTEC SPECIALITY FILMS (KOREA), INC.	Scope 1	1,088	623	604	622	452	276
	Scope 2	3,714	3,770	3,819	3,842	2,784	4,165
	Total	4,802	4,393	4,422	4,464	3,236	4,441
PT. LINTEC INDONESIA	Scope 1	2,691	1,216	875	1,225	1,262	1,289
	Scope 2	6,524	3,774	2,321	3,111	2,903	2,878
	Total	9,215	4,990	3,196	4,336	4,165	4,167
LINTEC INDUSTRIES (MALAYSIA) SDN. BHD.	Scope 1	2,065	1,203	1,758	1,815	984	887
	Scope 2	5,046	2,534	2,984	2,875	1,552	1,333
	Total	7,111	3,736	4,742	4,690	2,537	2,220
LINTEC (THAILAND) CO., LTD.	Scope 1	—	1,167	1,100	1,199	1,024	857
	Scope 2	—	2,802	2,463	2,364	1,482	1,218
	Total	—	3,969	3,562	3,563	2,506	2,075
MADICO, INC.	Scope 1	1,461	943	3,232	3,375	2,591	2,272
	Scope 2	3,437	1,376	4,641	3,963	3,558	3,439
	Total	4,898	2,319	7,874	7,339	6,149	5,711
MACTAC AMERICAS, LLC	Scope 1	—	8,355	8,189	24,075	16,047	12,258
	Scope 2	—	7,406	6,458	11,991	14,115	11,286
	Total	43,679	15,760	14,647	36,065	30,163	23,544
Others*	Scope 1	—	3,357	2,902	3,585	1,650	994
	Scope 2	—	6,481	6,156	6,142	5,077	4,456
	Total	6,488	9,838	9,058	9,727	6,727	5,450
Total	Scope 1	—	20,734	21,604	38,480	26,361	20,829
	Scope 2	—	35,581	36,864	43,258	39,056	36,192
	Total	92,214	56,314	58,468	81,738	65,416	57,021

\*Others: LINTEC PRINTING &amp; TECHNOLOGY (TIANJIN) CORPORATION; LINTEC ADVANCED TECHNOLOGIES (TAIWAN), INC.; LINTEC INDUSTRIES (SARAWAK) SDN. BHD.; VDI LLC; and sales sites

Initiatives for Reducing CO<sub>2</sub> Emissions

## Scope 3

(t-CO<sub>2</sub>)

Category item		FY2022		FY2023	
		Scope		Scope	
Category 1	Purchased Goods and Services	(1)	719,374	(1)	581,462
Category 2	Capital Goods	(1)	13,945	(1)	38,722
Category 3	Fuel- and Energy-Related Activities Not Included in Scope 1 or Scope 2	(2)	38,595	(2)	32,230
Category 4	Transportation and Distribution (Upstream)	(2)	37,326	(2)	28,983
Category 5	Waste Generated in Operations	(3)	54,790	(3)	43,730
Category 6	Business Travel	(4)	495	(4)	476
Category 7	Employee Commuting	(4)	1,893	(4)	1,597
Category 8	Leased Assets (Upstream)	N/A	Not applicable <sup>*1</sup>	N/A	Not applicable <sup>*1</sup>
Category 9	Transportation and Distribution (Downstream)	(2)	0 <sup>*2</sup>	(2)	0 <sup>*2</sup>
Category 10	Processing of Sold Products	N/A	— <sup>*1</sup>	N/A	— <sup>*1</sup>
Category 11	Use of Sold Products	N/A	—	N/A	—
Category 12	End-of-Life Treatment of Sold Products	(1)	57,964	(1)	54,850
Category 13	Leased Assets (Downstream)	N/A	Not applicable	N/A	Not applicable
Category 14	Franchises	N/A	Not applicable	N/A	Not applicable
Category 15	Investments	N/A	Not applicable	N/A	Not applicable
Total Scope 3 emissions			924,382		782,050

The guidelines below were used for the calculation. We will continue to improve calculation accuracy.

- Technical Guidance for Calculating Scope 3 Emissions – Supplement to the Corporate Value Chain (Scope 3) Accounting & Reporting Standard (GHG protocol (WRI/WBCSD))
- Database of emissions unit values for accounting of greenhouse gas emissions, etc., by organizations throughout the supply chain (Ver. 3.1) (Ministry of the Environment, Ministry of Economy, Trade and Industry)
- IDEA Ver.3.1 (for calculation of supply chain greenhouse gas emissions)

(1) LINTEC CORPORATION

(2) LINTEC CORPORATION, SHONAN LINTEC KAKO, INC., TOKYO LINTEC KAKO, INC.

(3) Agatsuma Plant, Kumagaya Plant, Chiba Plant, Tatsuno Plant, Shingu Plant, Komatsushima Plant, Mishima Plant, Doi Plant, the Head Office and Ina Technology Center of LINTEC CORPORATION, TOKYO LINTEC KAKO, INC.

(4) LINTEC CORPORATION, LINTEC COMMERCE, INC., LINTEC SIGN SYSTEM, INC., PRINTEC, INC., SHONAN LINTEC KAKO, INC., LINTEC SERVICES, INC., LINTEC CUSTOMER SERVICE, INC., TOKYO LINTEC KAKO, INC.

\*1 "Not applicable" items are judged to be outside the scope of calculation. "-" indicates that the item is applicable but not calculated because calculation is technically difficult.

\*2 Included in Category 4, as the cost of transportation of products is basically borne by our company.

## ▼ Calculation method by category

Category 1	The value and amount of each purchased raw material or service multiplied by an emissions factor
Category 2	The amount of capital investment multiplied by an emissions factor
Category 3	GHG emissions associated with the production of purchased fuel, electricity, steam, etc. and their annual volume of purchase multiplied by an emissions factor for each fuel
Category 4	Targeting domestic logistics, the weight of purchased raw materials multiplied by an emissions factor
Category 5	The amount of waste by type discharged from production sites multiplied by an emissions factor
Category 6	The number of employees multiplied by an emissions factor
Category 7	The number of employees in each region and their number of days of attendance multiplied by an emissions factor
Category 12	The purchase quantity by type of material less the portion disposed of, multiplied by an emission factors for each type

Initiatives for Reducing CO<sub>2</sub> Emissions

## Initiatives

**Compliance with Japanese Energy Conservation Act**

Designated as a "specified business operator" pursuant to the provisions of the Act on the Rational Use of Energy ("the Energy Conservation Act") of Japan, the Group is required to improve its energy use per production unit as well as its weighted electricity use per production unit (for reducing peak hour demand) by 1% per year. To comply with the Energy Conservation Act, the LINTEC Group in Japan collects monthly data on energy consumption of individual sites under the direction of the LINTEC Energy Savings Promotion Committee and is promoting energy-saving activities. We request the respective plants to submit their plans and measures to achieve the target of 1% reduction per production unit, and compile data on the progress and results of these measures. Moreover, energy-saving practices that have proven effective are applied to other production sites.

**Installation of solar power generation systems (Since 2020)**

Year of installation	Name of site	Planned reductions (t-CO <sub>2</sub> /year)
2020	Kumagaya Plant	458
2020	Ina Technology Center	110
2021	Chiba Plant	133
2021	TOKYO LINTEC KAKO, INC.	196
2022	Mishima Plant	457
2022	Doi Plant	462
2022	Komatsushima Plant	180
2023	Kumagaya Plant	473

**Introduction of co-generation systems**

Year of introduction	Name of site
2023	Doi Plant

**Efforts to prevent the leakage of fluorocarbons**

Plants and sales sites are equipped with air conditioners and refrigeration equipment that use fluorocarbon refrigerants, such as packaged air conditioners and chillers. LINTEC has created a list of such equipment and is conducting specified inspections in compliance with the Act on Rational Use and Appropriate Management of Fluorocarbons, prevent fluorocarbon leaks during use of the equipment.

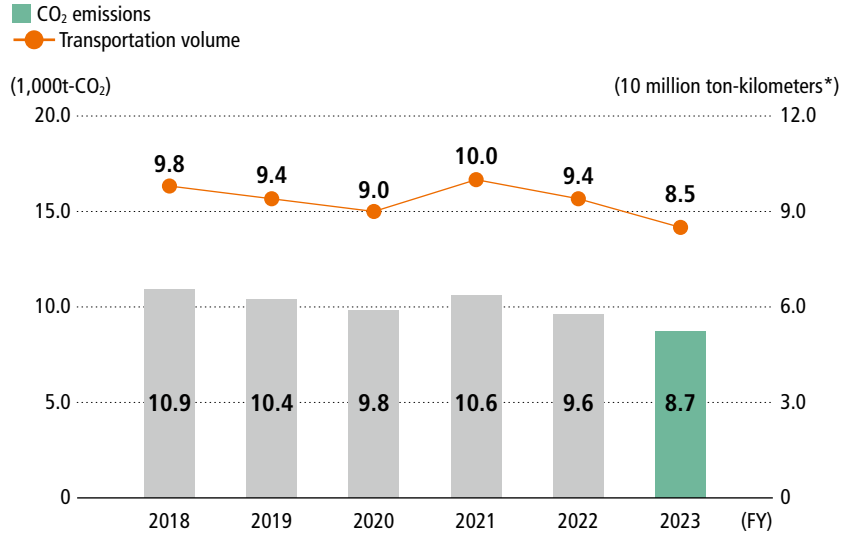
When it comes time to dispose of the equipment, we entrust appropriate service providers with the task to ensure safe recovery of the fluorocarbon refrigerants. We will continue to ensure proper use and management in compliance with laws and regulations.

Initiatives for Reducing CO<sub>2</sub> Emissions

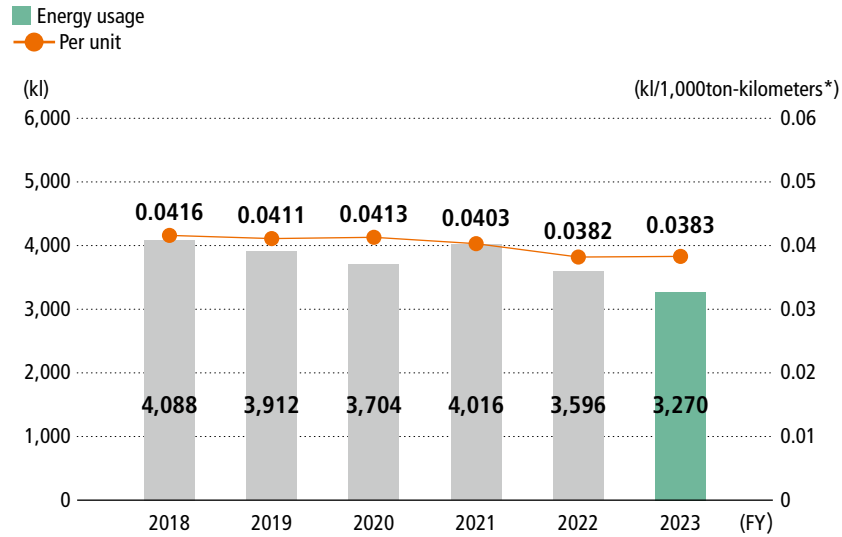
Efforts in distribution

We continue to control and reduce CO<sub>2</sub> emissions by making efforts in distribution, such as optimizing transportation efficiency and promoting a modal shift.

▼ CO<sub>2</sub> emissions and transportation volume in distribution



▼ Energy usage



\* Ton-kilometers: A unit of cargo transport amounts, computed by multiplying the cargo tonnage by the transportation distance. Transporting 1 ton of cargo over a distance of one kilometer equals one ton-kilometer.

# Information Disclosure Based on TCFD Recommendations

The LINTEC Group recognizes that climate change has impacts on its business activities and positions it as an important management issue. We will strengthen our risk management system and responses to risks and find new business opportunities to make contributions for our sustainable growth and the development of a sustainable society. Moreover, we will proactively disclose information on our responses to climate change according to the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD) and further improve our corporate value through engagement with stakeholders.

## Governance

The Sustainability Committee (meeting four times a year, in principle) discusses policies and implementation plans and supervises their progress regarding specific measures related to sustainability, including responses to climate change-related issues. The committee is chaired by the president and comprised of all directors and officers in charge of promoting committees under the Sustainability Committee. The outcomes of discussions are reported to the Board of Directors.

Climate change-related issues are assessed firstly by the Environmental Committee, via the TCFD Subcommittee, and finally by the Sustainability Committee. Measures to respond to issues are implemented and managed at each site. The status of responses is put together by the Environmental Committee and reported to all directors and officers in charge at the Sustainability Committee.

## Reference

### > Corporate Governance System

Note: Go to the Investor Relations page.

## Strategy

Considering risks and opportunities associated with climate change as an important matter in developing its business strategies, the LINTEC Group set out the following two scenarios and conducted scenario analysis for its domestic business and some of its overseas business up to 2030 (medium-term) and 2050 (long-term). Consequently, we identified risks and opportunities, as shown in the following table. We will integrate measures to respond to these climate change-related risks and opportunities into initiatives we take under our long-term vision, LSV 2030, and will carry out analysis, covering the consolidated subsidiaries of the LINTEC Group, from a longer-term perspective.

Information Disclosure Based on TCFD Recommendations

		+4°C scenario	+2°C or below 1.5°C scenario
Reference Scenario	Transition Risks	Transition scenario, International Energy Agency (IEA)	
		Stated Policies Scenario (STEPS) <sup>*1</sup>	Sustainable Development Scenario (SDS) Net Zero Emissions by 2050 (NZE) <sup>*1</sup>
	Physical Risks	Climate change scenario, Intergovernmental Panel on Climate Change (IPCC)	
		"RCP8.5" <sup>*2</sup>	"RCP2.6" <sup>*2</sup>
	Technology Roadmap for Transition Finance formulated by the Ministry of Economy, Trade and Industry		
Image of society that LINTEC envisions	<p><b>[Society where policies continue as they are and climate change progresses]</b></p> <ul style="list-style-type: none"> <li>• Climate change countermeasures are an extension of current measures</li> <li>• Precipitation patterns change due to rising temperatures. Sudden extreme weather events occur more frequently, and the extent of the damage increases</li> <li>• Carbon tax is not implemented</li> </ul>	<p><b>[Society where active measures are taken toward realizing a carbon-free world]</b></p> <ul style="list-style-type: none"> <li>• Active measures for carbon-free, such as introduction of carbon pricing, promotion of renewable energy, and promotion of ZEB ZEH<sup>*3</sup>, are taken.</li> <li>• Renewable energy technologies, energy conservation technologies, and new technologies for carbon free are actively developed.</li> <li>• The environment for raw material procurement will change as a result of conversion to non-petrochemical raw materials.</li> <li>• Plastic-free and 3R are further promoted, and a circular economy is considered as a premise for society.</li> <li>• Floods and droughts will increase due to temperature rise, but the damage will be smaller than in a +4°C world.</li> <li>• Demand for environmentally friendly products will increase due to a shift in consumer attitudes.</li> </ul>	

\*1 Source: IEA. World Energy Outlook 2021, World Energy Outlook 2022

\*2 Source: IPCC. Fifth Assessment Report

\*3 ZEB (Net Zero Energy Building) and ZEH (Net Zero Energy House) refer to buildings and houses with an annual energy consumption that is effectively zero or less, which is achieved by installing equipment such as high-insulation, highly airtight, highly efficient equipment and solar power systems.

**Scope**

The scope of this scenario analysis includes our business in Japan and some overseas locations (China, South Korea, Thailand, and Indonesia). Going forward, we will consider expanding the scope to include consolidated subsidiaries of the LINTEC Group.

**Timeline**

"Medium-term" refers to the period up to 2030, which is the final year of the LINTEC Group's long-term vision and SDGs. "Long-term" refers to the period up to 2050, which is the Group's target year for achieving carbon neutrality. For future financial impact, the analysis was conducted by focusing on 2030.



## Information Disclosure Based on TCFD Recommendations

## World of +2°C or Less

## Transition Risks

Category	Major risks		Timeline	Proposed responses
Policy and legal	Carbon pricing	Decline in price competitiveness due to the increased cost needed to respond to tougher laws and regulations on GHG emissions and energy usage (such as introduction of a carbon tax), as well as higher manufacturing cost and price pass-through	Medium- to long-term	<ul style="list-style-type: none"> <li>Reduce CO<sub>2</sub> emissions while keeping down/reducing total cost by converting fuels, adopting highly efficient equipment, and using renewable energy</li> </ul>
	Tightened regulation of CO <sub>2</sub> emissions	Investment unrecovered due to increased capital investment for saving energy and reducing CO <sub>2</sub> emissions	Medium- to long-term	<ul style="list-style-type: none"> <li>Make planned capital investment based on simulations of mid- to long-term CO<sub>2</sub> emissions</li> </ul>
		Increased burden in order to respond to more sophisticated disclosure of information on GHG emissions and the obligation to disclose such information	Medium- to long-term	<ul style="list-style-type: none"> <li>Consider adding verification of GHG emissions by a third party (overseas), obtain operational support from a third party, and consider inhouse calculation methods (such as scope 3)</li> </ul>
Tightened regulations on VOC emissions	Decline in sales of solvent products and changes in specifications	Medium- to long-term	<ul style="list-style-type: none"> <li>Reinforce the development of solvent-free products and expand the sales of such products</li> </ul>	
Technology	Development of new technologies	Loss of business opportunities if development of products that address climate change is delayed, or if existing products cannot meet environmental needs.	Medium- to long-term	<ul style="list-style-type: none"> <li>Investigate market needs for products that address climate change, prioritize initiatives for a circular society, and promote the development of such products</li> </ul>
		Decline in competitiveness due to delays in research and development of new technologies, securing intellectual property rights, or joint development efforts, etc.	Medium- to long-term	<ul style="list-style-type: none"> <li>Promote the development of new climate change-related technology, the securing of intellectual property rights, and the consideration of joint development</li> </ul>
Market	Changing energy costs	Increased manufacturing costs and utility costs due to rising prices of crude oil- and petroleum-based energy	Medium-term	<ul style="list-style-type: none"> <li>Enhance energy conservation activities and promote utilization of renewable energy equipment</li> </ul>
	Changing important products	Decrease in orders received for our core products as customer needs shift toward environmentally friendly products	Medium- to long-term	<ul style="list-style-type: none"> <li>Develop and expand environmentally friendly products according to customer needs and expand the sales of such products</li> </ul>
	Changing raw material procurement	Unstable product supply due to increased dependence on suppliers as a result of accelerated conversion to nonpetrochemical raw materials	Medium- to long-term	<ul style="list-style-type: none"> <li>Diversify suppliers by adopting more sophisticated supply chain management</li> </ul>
		Increase in the cost of raw materials due to measures taken by suppliers to reduce CO <sub>2</sub> emissions	Medium- to long-term	<ul style="list-style-type: none"> <li>Diversify suppliers by adopting more sophisticated supply chain management</li> </ul>
Reputation	Changing reputation among customers	Decline in customer ratings and decrease in sales due to delays in establishing systems to tackle climate change and in deploying and enhancing products that address climate change	Medium- to long-term	<ul style="list-style-type: none"> <li>Foster more active stakeholder engagement</li> <li>Develop and expand environmentally friendly products, and expand the sales of such products</li> </ul>
		Failure to respond a customer's request for disclosure in a timely manner leads to a decline in customer ratings, resulting in the suspension of transactions, the loss of business opportunities, and a decrease in sales.	Short- to medium-term	<ul style="list-style-type: none"> <li>Strengthen the efficient information collection and response systems of the entire LINTEC Group on a global basis</li> </ul>

## Information Disclosure Based on TCFD Recommendations

## Opportunities

Category	Major risks	Timeline	Proposed responses
Resource efficiency	Reduction in cost for water supply and effluent through recycling water	Medium to long-term	<ul style="list-style-type: none"> <li>Consider switching to a circulating water method for water cooling equipment</li> </ul>
	Effective capital investments in new equipment through adoption of internal carbon pricing	Medium-term	<ul style="list-style-type: none"> <li>Adopt criteria for internal investment decisions to bring transparency to internal carbon pricing and cost</li> </ul>
Energy sources	Promotion of cost reduction in energy procurement	Medium to long-term	<ul style="list-style-type: none"> <li>Promote the use of renewable energy and introduce equipment that saves energy and uses renewable energy</li> <li>Adopt cogeneration systems, exhaust heat boilers, solar power generation systems for captive consumption, etc.</li> </ul>
	Monetization of emissions trading by keeping CO <sub>2</sub> emissions within emissions allowances	Medium to long-term	<ul style="list-style-type: none"> <li>Further reduce CO<sub>2</sub> emissions</li> </ul>
	Adoption of alternative energy for carbon-free	Long-term	<ul style="list-style-type: none"> <li>Consider adopting hydrogen as an alternative source of energy</li> </ul>
	Increase in opportunities to procure materials that are manufactured with energy sources and/or raw materials made available through innovation by suppliers, which contribute toward achieving carbon neutrality	Medium to long-term	<ul style="list-style-type: none"> <li>Promote procurement of raw materials that contribute toward the realization of carbon neutrality by cooperating and collaborating with suppliers</li> </ul>
Products and services	Increase in demand for electronics related products due to acceleration of digitalization and popularization of EV	Medium to long-term	<ul style="list-style-type: none"> <li>Enhance the production system for electronics-related business by actively making capital investments</li> </ul>
	Increase in needs for products and initiatives that contribute to the realization of a circular society	Medium to long-term	<ul style="list-style-type: none"> <li>Develop and expand environmentally-friendly products (such as plastic-free, biomass, biodegradable products and FSC certified paper)</li> <li>Promote the development of resource-recycling products and the establishment of resource collection systems by working with supply chains and external organizations</li> </ul>
	Increase in business opportunities owing to popularization and expansion of renewable energy	Medium to long-term	<ul style="list-style-type: none"> <li>Develop and expand products that contribute to the generation of renewable energy</li> </ul>
	Increase in opportunities to sell energy efficient products	Medium to long-term	<ul style="list-style-type: none"> <li>Develop and expand products that help promote energy conservation (such as highly functional window films and light control films)</li> </ul>
	Increase in opportunities to sell solvent-free products	Medium to long-term	<ul style="list-style-type: none"> <li>Develop and expand solvent free products according to customer needs</li> </ul>
	Acquisition of new business opportunities owing to the increased environmental awareness of employees	Medium to long-term	<ul style="list-style-type: none"> <li>Acquisition of more business opportunities by raising the environmental awareness of employees through cross organizational committee activities and training sessions to provide the market with competitive products</li> </ul>
Market	Gaining support of stakeholders by enhancing initiatives for realizing a carbon-free world and a circular society	Medium to long-term	<ul style="list-style-type: none"> <li>Enhance internal initiatives, and promote initiatives that are being undertaken in cooperation with supply chains and the industry as a whole</li> <li>Actively promote environmentally friendly products both in Japan and overseas to gain the understanding and support of a wider range of stakeholders</li> </ul>
Resilience	Stabilizing supply chains by reviewing suppliers	Medium to long-term	<ul style="list-style-type: none"> <li>Sophisticate supply chain management</li> </ul>

## World of +4°C

### Physical risks

Category	Major risks		Timeline	Proposed responses
Acute	Exacerbation of natural disasters	Delays in product supply and declines in sales due to supply chain disruptions and a factory shutdown caused by heavy rain, and increases in distribution costs and non-operating expenses due to distribution delays and product damage	Medium- to long-term	<ul style="list-style-type: none"> <li>Implementing BCPs and building BCMs, including at overseas locations</li> <li>Building an inventory and logistics management system that is more resilient to natural disasters</li> <li>Development of disaster response manuals</li> <li>Obtaining insurance in anticipation of natural disasters</li> <li>Flood-resistant building design</li> </ul>
		Increase in repair cost and accident and disaster insurance cost	Medium- to long-term	<ul style="list-style-type: none"> <li>Periodically identify risks at each site</li> <li>Monitor items related to instructions provided in management reviews and reflect them in updated equipment specifications</li> </ul>
Chronic	Rise in temperatures	Increase in air conditioning cost during the summer	Medium- to long-term	<ul style="list-style-type: none"> <li>Consider improving insulation performance by using multi-layering window glass and/or attaching heat shield films at each office</li> </ul>
	Instability in securing water	Shortage of industrial water due to a decrease in groundwater	Medium- to long-term	<ul style="list-style-type: none"> <li>Consider switching to a circulating water method for water cooling equipment</li> </ul>

## Financial Impact of Risks and Opportunities Related to Climate Change

### Financial impact of transition risks

#### • Increase in cost due to carbon pricing

We aim to reduce CO<sub>2</sub> emissions by 75% or more by 2030 compared to fiscal 2013 levels, and achieve net zero by 2050. If a carbon tax is introduced, the estimated carbon tax burden incurred by the company will be approximately 2 billion yen if the company achieves the goal in 2030. This is approximately 1.1 billion yen less than the cost that would be incurred if the company does not work on reducing CO<sub>2</sub> emissions.

#### • Capital investments to reduce CO<sub>2</sub> emissions

We plan to invest approximately 14.7 billion yen in total to reduce CO<sub>2</sub> emissions in Japan during the period of our long-term vision, "LSV 2030," by adopting solar power generation systems for captive consumption and gas turbine cogeneration systems.

#### • Changes in the raw material procurement environment

Some of our products use fossil fuels and raw materials derived from pulp. Consequently, we recognize that our business faces high long-term risk derived from changes in the raw material procurement environment. We will continue to analyze the degree of impact and consider countermeasures, such as switching raw materials and adopting new technologies.

### Financial impact of physical risks

#### • Torrential rain and floods

We will minimize the impact and ensure a stable supply of products by purchasing raw materials from multiple suppliers, maintaining an adequate level of inventory at each site, and establishing back-up systems through BCP\*.

\* BCP: BCP stands for a Business Continuity Plan. It is a plan developed in advance to enable the minimization of damage and the continuation or early resumption of business in the event that a company encounters an emergency situation such as an accident or disaster.

#### • Droughts

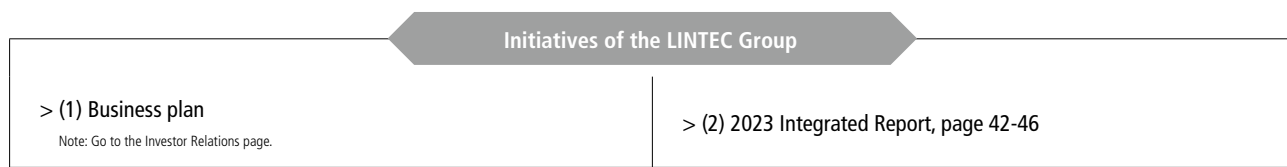
We will minimize the impact by making continuous efforts to develop multiple industrial water systems and reduce industrial water usage at each site.

### Financial impact of opportunities

- Increase in demand for various types of environmentally friendly products**  
 As companies promote countermeasures against global warming and consumer attitudes shift toward environment-conscious and sustainable living, demand for our environmentally friendly products is expected to increase. We are currently calculating the amount of financial impact.
- Increase in demand for energy-efficient products**  
 With growing needs for energy conservation and disaster prevention as well as the advancement of industrialization and urbanization in emerging countries, demand for our energy-efficient products is expected to increase. We are currently calculating the amount of financial impact.

### Results of our scenario analysis

As a result of our scenario analysis, we confirmed that both scenarios we examined will have a certain degree of impact on our business in 2030 and 2050, such as the impact of increased raw materials costs, and the impact on demand for energy-efficient products related to our initiatives under the long-term vision of "LSV 2030" as well as various types of environmentally friendly products. Consequently, we reconfirmed the need for actively working on managing risks and capturing opportunities. We will continue to take necessary measures as a group-wide effort, and actively work on reducing CO<sub>2</sub> emissions by 75% or more by 2030 compared to fiscal 2013 levels and achieving net zero by 2050.



## Risk Management

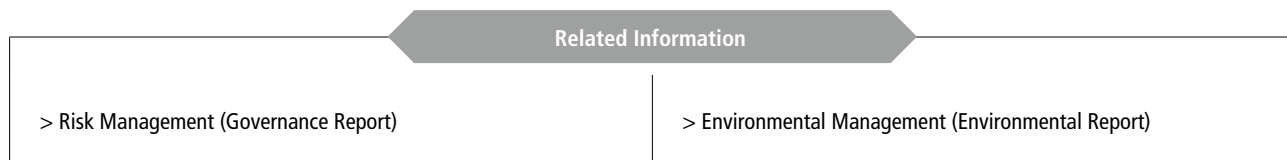
In April 2018, the LINTEC Group established a Corporate Risk Management Committee comprised of executive general managers and general managers from offices under the direct control of the president with the aim of enhancing its risk management systems, and the committee periodically holds meetings.

In April 2021, the system for promoting sustainability activities was renewed and strengthened, and the purpose of this Committee was redefined as "identifying risks and opportunities in business operation; formulating policies to manage them; and planning and verifying worksite-level measures." The committee assesses and analyzes various risks, including those related to natural disasters, based on the issues recognized by committee members and the results of the annual risk identification process for managers. The results are reported to the Sustainability Committee every quarter, who then gives instructions on response measures.

In addition, information related to climate-related risks is gathered and identified/assessed by the Environmental Committee, and the results are reported to the Sustainability Committee. The Sustainability Committee considers whether any response measures need to be implemented, and then provides instructions to officers in charge of promotion through subcommittees as needed.

Officers who receive instructions then implement measures through departments for which they are responsible. The Environmental Committee monitors subsequent changes in circumstances on an ongoing basis, and periodically checks whether initial indicators/ goals have been achieved.

These committees will continue to work together to strengthen our risk management capabilities and enhance our risk management systems to contribute to the sustainable growth of the LINTEC Group.



## Metrics and Targets

The LINTEC Group recognizes that reduction of greenhouse gas (GHG) emissions is crucial in addressing climate change and accordingly promotes various measures in R&D, manufacturing, sales, and logistics. As a manufacturer, LINTEC views these initiatives for carbon-free as its mission and as leading to new climate-related opportunities. In its long-term vision toward 2030, "LSV 2030," the LINTEC Group has set the following numerical target.

### Targets and Results

> LINTEC Group's Roadmap for Reducing CO<sub>2</sub> Emissions (Environmental Data Book)

### Goals and indicators are also listed in the below:

> (1) Environmental Report

> (2) Business Plan

Note: Go to the Investor Relations page.

> (3) Scope 3 (Environmental Data Book)

# Reducing Waste

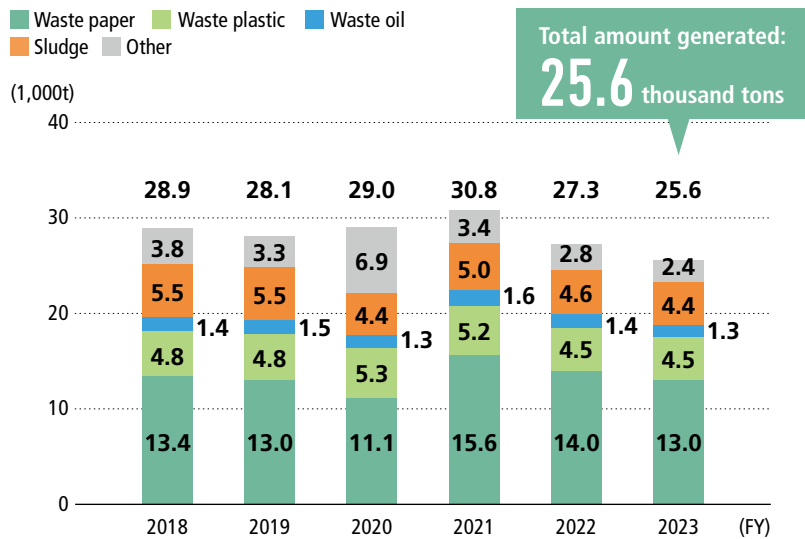
## Effective utilization of waste

(1,000 tons)

	FY2019	FY2020	FY2021	FY2022	FY2023
Waste discharge	28.1	29.0	30.8	27.3	25.6
Effective Internal utilization <sup>*1</sup>	9.6	8.9	9.9	8.4	7.3
Sale of valuable materials <sup>*2</sup>	6.8	7.5	5.6	7.2	7.9
Total waste output	11.8	12.1	15.6	11.8	10.4
Effective external utilization <sup>*3</sup>	7.1	8.8	11.9	7.6	6.6
Incineration	4.6	3.1	3.5	4.1	3.7
Volume reduction, heat use	4.5	2.9	3.3	4.0	3.6
Final landfill disposal	0.1	0.2	0.2	0.1	0.1
Waste recycled (*1*2*3 total)	23.5	25.2	27.4	23.1	21.8

Organizations covered: LINTEC CORPORATION (Head Office and plants), the Research Center, TOKYO LINTEC KAKO, INC.

## Waste discharge



Organizations covered: LINTEC CORPORATION (Head Office and plants), the Research Center, TOKYO LINTEC KAKO, INC.

## Reducing Waste

## 3R efforts

## Efforts to reduce (reduce amount of waste)

The LINTEC Group promote a paperless office by introducing an electronic approval system via the in-house intranet and by other means. Together with the Research Center, each plant is making efforts to improve manufacturing technology and yield to reduce the number of defective products. Each plant is also striving to reduce input resources in accordance with production plans designed to downsize the furnace for preparing application liquids, reduce the width of raw material rolls used in the paper passing process, and ensure continuous production.

## Efforts to reuse (use repeatedly)

We clean pallets used within the LINTEC Group's production sites and the cores we use for the rolls of adhesive products in process on an as-needed basis. These pallets and core rolls are reused at the sites that transfer or receive them. LINTEC also promotes reuse practices involving customers and raw material manufacturers. We manage the pallets of customers and raw material manufacturers after sorting them by owner, and return them to their original owners to ensure that they can be reused.

## Efforts to recycle

We bring paper waste generated at group companies in the Kanto region to our Kumagaya Plant to effectively use it internally as a raw material for thermal recycling. We ensure waste sorting and promote recycling by separating valuable materials from mixed materials that were previously processed as waste.

We are also focusing on the development of environment-friendly products, and have launched products such as base paper for straws to reduce plastic use, a PET film product made from recycled plastic bottles, an adhesive product using biomass adhesive, and others.

## Efforts under the Act on Promotion of Resource Circulation for Plastics

## Targets for Emissions Reduction, Recycling, etc. under the Act on Promotion of Resource Circulation for Plastics

1. Work to improve yield through revision of production processes and other measures, and reduce plastic waste.
2. Promote simplification, weight reduction, and reuse of plastic packaging materials used for purchased raw materials and internal work in process, thereby contributing to reduction of use and discharge of plastic packaging materials both inside and outside the company.
3. Work to reduce the use and discharge of plastic core rolls by collecting and reusing plastic core rolls used for product shipment.

## The amount of discharge and recycling rate of industrial waste from products using plastic at LINTEC

	FY2020	FY2021	FY2022	FY2023
Amount of discharge (t)	3,635	3,754	3,423	3,413
Recycling rate (%)	4.4	6.2	10.9	4.6
Heat recovery rate (%)	93.3	91.5	86.7	93.3

Recycling rate (%) = Recycled amount/Amount of discharge × 100

Heat recovery rate (%) = Amount of heat recovered/Amount of discharge × 100

Organizations covered: The Head Office, Agatsuma Plant, Kumagaya Plant, the Ina Technology Center, the Research Center, Chiba Plant, Tatsuno Plant, Shingu Plant, Mishima Plant (Doi Plant), Komatsushima Plant, Sapporo Branch Office, Sendai Branch Office, Hokuriku Branch Office, Bunkyo Kasuga Office, Shizuoka Branch Office, Nagoya Branch Office, Osaka Branch Office, Shikoku Branch Office, Hiroshima Branch Office, Fukuoka Branch Office, Kumamoto Office, TOKYO LINTEC KAKO, INC.

## Reducing Waste

## Amount of industrial waste discharged from products using plastic at group companies in Japan

(Tons)

	FY2022	FY2023
LINTEC COMMERCE, INC.	9.6	7.1
LINTEC SIGN SYSTEM, INC.	22.4	49.7
SHONAN LINTEC KAKO, INC.	125.0	84.6
LINTEC SERVICES, INC.	0	0
LINTEC CUSTOMER SERVICE, INC.	0.3*	1.5
TOKYO LINTEC KAKO, INC.	100.9	102.0

\* Calculation period: December 2022 to March 2023



# Water Usage and Discharge

## Standards, methods and preconditions used



Tap water, groundwater, and industrial water are measured value

## Water usage and discharge treated

(1,000 m<sup>3</sup>)

Category	FY2020	FY2021	FY2022	FY2023
Total water usage	7,951	7,718	7,798	7,831*
• Tap water	531	509	540	515
• Industrial water	3,660	3,715	3,383	3,680
• Groundwater	3,760	3,494	3,876	3,636
Discharge	6,163	6,630	6,191	5,909

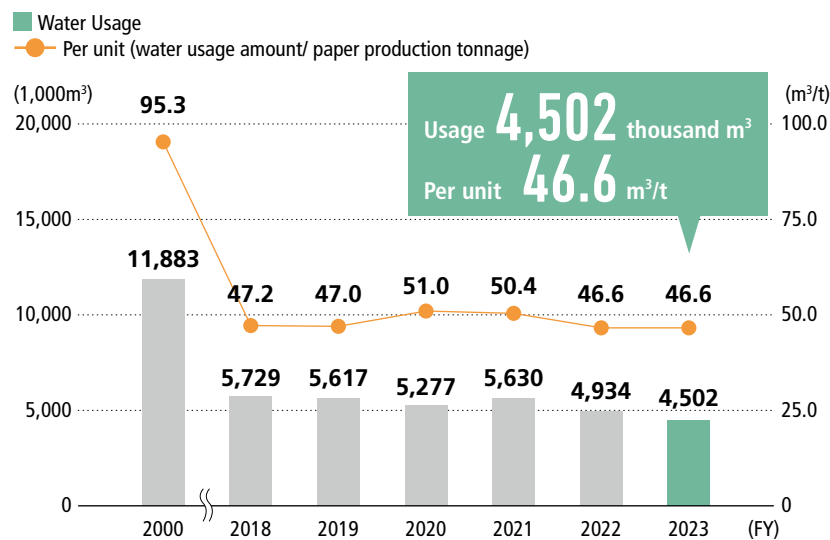
Figures marked with \* were subject to third-party verification performed by SGS Japan Inc. > Click here for details on data marked with \*.

Organizations covered: The Head Office and plants of LINTEC CORPORATION and TOKYO LINTEC KAKO, INC.

Note: Water usage data is the sum of the figures for tap water, industrial water, and groundwater.

## Water usage for fine and specialty paper production at Kumagaya and Mishima Plants

### ▼ Water usage (Kumagaya and Mishima Plants)



## Water Usage and Discharge

## Discharge water quality (Kumagaya and Mishima Plants)

## Kumagaya plant

Item	Discharge Water standards		FY2019		FY2020		FY2021		FY2022		FY2023	
			Maximum value	Average value	Maximum value	Average value	Maximum value	Average value	Maximum value	Average value	Maximum value	Average value
pH	5.8–8.6		6.63–7.48	7.04	7.6	7.1	7.8	7.16	7.47	7.07	7.9	7.11
Regulations on emission concentration	SS <sup>*1</sup>	60 (50) or less	26.6	(11.91)	33.9	(22.26)	45.6	(12.47)	42.9	(11.73)	32.7	(12.98)
	BOD <sup>*2</sup>	25 (20) or less	20	(9.81)	23	(10.45)	20	(8.71)	21	(9.12)	25	(8.73)
	COD <sup>*3</sup>	—	48.9	23.77	55	24.21	45.2	23.22	43.2	22.09	67.3	23.12
Regulations on total emissions	COD (t/day)	0.858 or less	0.2746	0.1435	0.276	0.14	0.282	0.138	0.265	0.121	0.235	0.12146
	Nitrogen (t/day)	0.4068 or less	0.0277	0.1438	0.143	0.395	0.1413	0.3471	0.142	0.0023	0.1169	0.0245
	Phosphorus (t/day)	0.0418 or less	0.0013	0.0011	0.01	0.0094	0.0126	0.0009	0.0065	0.0007	0.00776	0.00098

## Mishima Plant

Item	Discharge Water standards		FY2019		FY2020		FY2021		FY2022		FY2023	
			Maximum value	Average value	Maximum value	Average value	Maximum value	Average value	Maximum value	Average value	Maximum value	Average value
pH	5.8–8.6		6.0–7.3	6.64	6.0–7.6	6.75	6.0–8.0	6.96	6.0–7.7	6.77	6.1–8.0	6.99
Regulations on emission concentration	SS <sup>*1</sup>	80 (60) or less	33	(4)	29	(4)	28	(4)	44	(4)	45	(4)
	COD <sup>*3</sup>	90 (65) or less	78.6	(24)	84.5	(24.6)	88.2	(24.3)	89.2	(25)	89.4	(22.9)
	TN	120 (60) or less	—	—	—	—	77.9	(4.5)	47.1	(5.5)	41.6	(5.1)
	TP	16 (8) or less	—	—	—	—	0.7	(0.04)	0.83	(0.04)	0.9	(0.04)
Regulations on total emissions	COD (t/day)	0.9431 or less	0.5198	0.2462	0.4886	0.2385	0.5158	0.25	0.4945	0.2365	0.4452	0.2065
	Nitrogen (t/day)	0.3961 or less	0.2171	0.043	0.1749	0.0351	0.1926	0.0465	0.199	0.0519	0.165	0.0477
	Phosphorus (t/day)	0.0405 or less	0.0009	0.0003	0.0014	0.0002	0.0013	0.0004	0.0014	0.0004	0.0024	0.0004

In regulations on emission concentration, the figures in parentheses indicate the daily average values.

\*1 SS: Suspended Solids

\*2 BOD: Biochemical Oxygen Demand

\*3 COD: Chemical Oxygen Demand

# Biodiversity Conservation Initiatives

## Activities

We have started biodiversity initiatives at Kumagaya Plant, after conducting evaluations based on priority area identifications as required by TNFD\* (v0.4). We have established the concept of five zones (forest creation, grassland creation, conservation-type planting, landscape planting, and water areas), and are promoting activities.

In addition, each plant prepared a list of candidate native species for planting in the local area, and selected and planted trees from the available species (coniferous trees, evergreen trees, etc.).

\* TNFD: Taskforce on Nature-related Financial Disclosure.

### Project (1)

#### Initiative for biodiversity at the Kumagaya Plant

As an initiative for forest creation, Kumagaya Plant is sowing seeds collected from the surrounding area in pots and growing seedlings. And in the water area, the plant is promoting the growth of endangered species that have been found within the plant's premises.



Activities to protect local native species



Activities to protect endangered species

### Project (2)

#### Planting native species at Chiba Plant

Chiba Plant selected species native to Chiba Prefecture for planting its seedling from among native tree species grown in the prefecture.



Left: Japanese yew Right: Japanese black pine



Japanese cleyera

### Project (3)

#### Planting native species at Mishima Plant

Mishima Plant selected a species native to Ehime Prefecture for planting its seedling from among native tree species grown in the prefecture.



Japanese camellia



# Compliance with PRTR

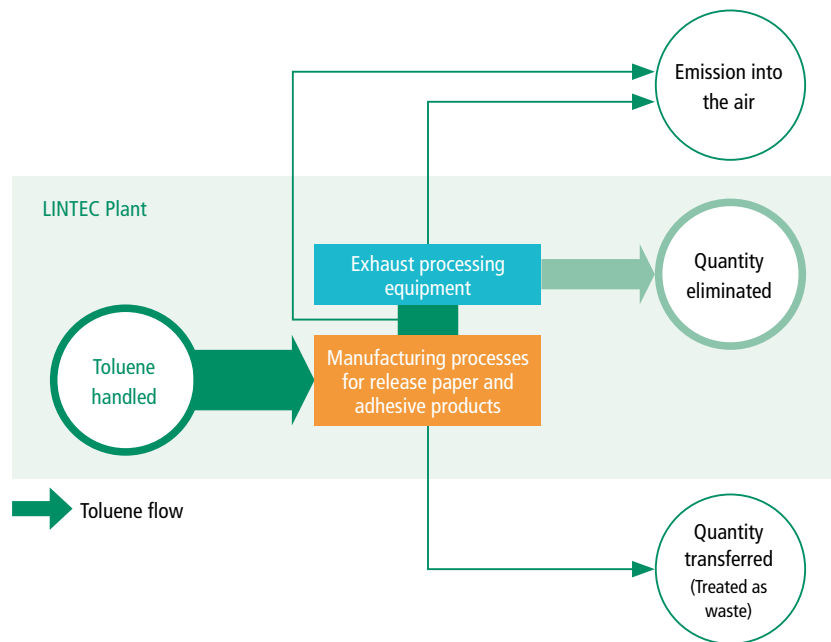
## Emissions of substances subject to PRTR

	FY2020	FY2021	FY2022	FY2023
Emissions	459	439	359	346

(Tons)

Organizations covered: LINTEC CORPORATION and TOKYO LINTEC KAKO, INC.

## Emission and transfer of toluene



	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023
Toluene handled(t)	7,919	7,652	6,614	6,800	5,508	5,471
Emission into the air(t)	489	464	453	434	357	340
Quantity eliminated(t)	6,901	6,825	5,719	5,851	4,695	4,631
Elimination rate (%)	93.4	93.8	93.5	93.1	92.9	93.2
Quantity transferred (t) (Treated as waste)	529	363	496	516	456	500

Note: Elimination rate=eliminated amount (handling amount-transferred amount) × 100  
 Organizations covered: LINTEC CORPORATION's plants

# VOC Emissions Reduction

## VOC emissions

### Japan

(Tons)

	FY2020	FY2021	FY2022	FY2023
Agatsuma Plant	139.8	153.6	126.2	114.7
Kumagaya Plant	286.7	288.5	196.2	170.6
Research Center	1.8	2.0	1.7	1.6
Chiba Plant	107.5	125.0	118.5	117.3
Tatsuno Plant	39.5	38.2	74.9	54.8
Shingu Plant	49.4	46.7	27.8	33.7
Komatsushima Plant	30.6	35.0	32.4	26.0
Mishima Plant	152.9	200.6	167.2	149.0
Total	825.7	909.5	754.3	667.7*

Note: Substances used for VOC calculation: 11 substances (toluene, ethyl acetate, MEK, IPA, acetone, n-hexane, xylene, ethylbenzene, vinyl acetate, methanol, ethanol)  
 Figures marked with \* were subject to third-party verification performed by SGS Japan Inc. > [Click here for details on data marked with \\*](#).

### Overseas

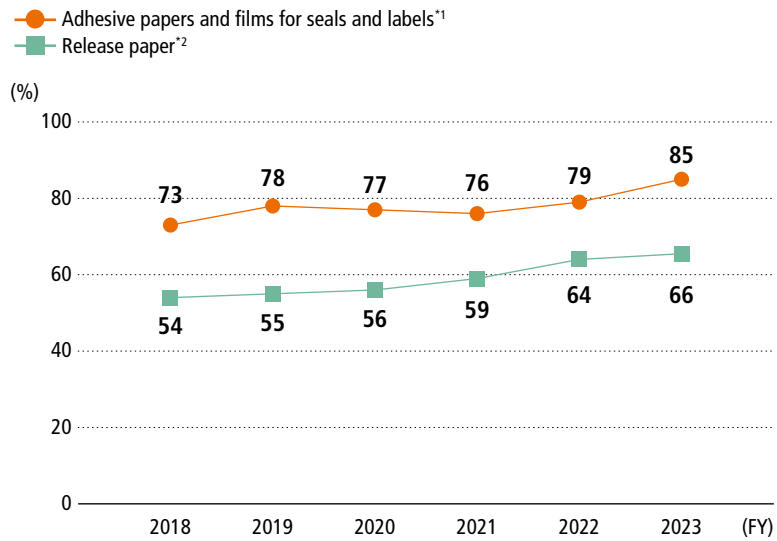
(Tons)

	FY2020	FY2021	FY2022	FY2023
LINTEC SPECIALITY FILMS (TAIWAN), INC.	37.9	47.4	25.6	24.5
LINTEC SPECIALITY FILMS (KOREA), INC.	33.8	36.0	22.1	15.2
PT. LINTEC INDONESIA	195.7	251.7	163.8	187.0
LINTEC (THAILAND) CO., LTD.	25.0	25.0	23.3	17.7
LINTEC (SUZHOU) TECH CORPORATION	28.1	25.5	4.3	3.9
LINTEC KOREA, INC.	2.7	3.4	2.9	2.4
LINTEC INDUSTRIES (MALAYSIA) SDN. BHD.	5.6	5.9	3.4	2.0
MADICO, INC.	2.3	5.5	4.5	3.7
Others*	39.1	40.9	15.4	12.1
Total	436.1	535.7	404.1	348.4

\* Others: LINTEC PRINTING & TECHNOLOGY (TIANJIN) CORPORATION and LINTEC INDUSTRIES (SARAWAK) SDN. BHD.

VOC Emissions Reduction

Percentages of solvent-free adhesive products and release papers



\*1 Adhesive products sold in Japan

\*2 All release paper products produced at Kumagaya and Mishima Plants (excluding some specialty products)

Reference

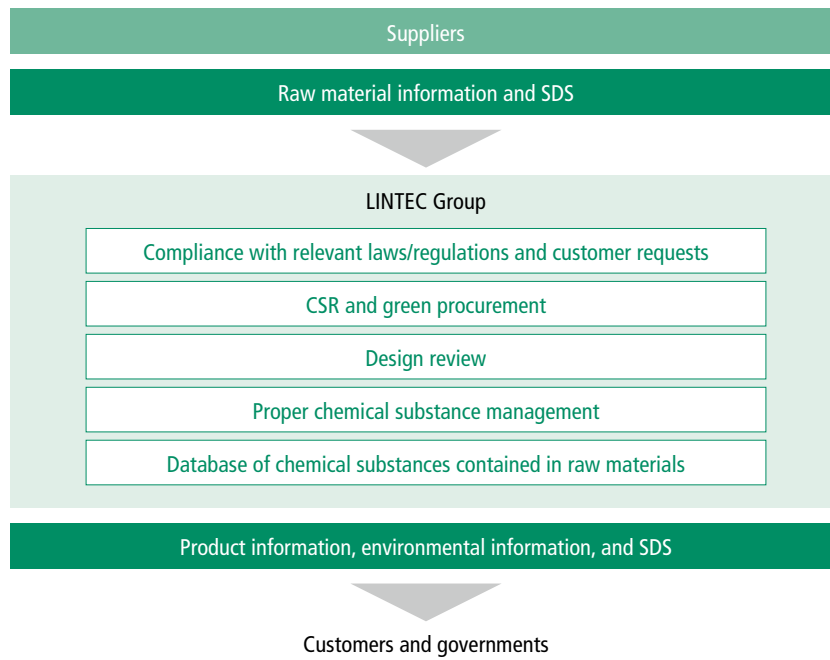
> Highlight: Solvent-free Release Papers (Japanese version only)

# Management of Chemical Substances, Compliance with EU Regulations

## Candidate list of substances of very high concern (SVHC) under REACH Regulation

Total	241 entries (31st update, June 27, 2024)
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## Product information flow



## Proper Storage and Management of PCB

### Status of proper storage and management of PCB

Business site	Number of stored units of PCB waste	Treatment facility	Year of registration for consignment treatment	Processing completion
Kumagaya Plant	19 high-concentration units	JESCO Tokyo Office	2005	March 2019 (Completed)
	4 fluorescent light ballasts	JESCO Hokkaido Office	2017	June 2018 (Completed)
	1 low-concentration unit	Gunto Sangyo Co., Ltd.	2018	December 2018 (Completed)
Tatsuno Plant	14 high-concentration units	JESCO Kitakyushu Office	2015	June 2019 (Completed)
	3 fluorescent light ballasts		2019	June 2019 (Completed)
Total	41 units disposed of			



# Environmental Preservation Costs

In FY2023, investment<sup>\*1</sup> amounted to 2,435 million yen, while expenses<sup>\*2</sup> totaled 5,025 million yen. The total amount of investment for the fiscal year increased by 1,583 million yen from FY2022, mainly due to the introduction of new equipment for fine and specialty paper production aimed at reducing CO<sub>2</sub> emissions and energy-saving air conditioning equipment in new plant buildings.

Total expenses increased by 414 million yen from FY2022 due to increased energy-saving costs, such as costs for maintenance of fuel conversion equipment and of onsite power generators.

\*1 The amount of investments made during a year for the purpose of environmental conservation.

Since the effect of the investments lasts for several years or longer, the invested amounts are recognized as costs over those years.

\*2 Costs or losses arising from consuming goods and services for the purpose of environmental conservation.

	Category	Target equipment	Investments (Millions of yen)	Details of main initiatives	Expenses (Millions of yen)
1. Business area cost	Pollution prevention cost				
	a. Preventing air pollution	Exhaust gas treatment system	171	Management and maintenance of equipment to prevent air pollution	353
	b. Preventing water pollution	Discharge Water treatment system	223	Management and maintenance of equipment to prevent water pollution	171
	c. Preventing overall pollution	—	—	Sludge disposal costs	35
	Global environmental conservation cost				
	a. Preventing global warming	—	—	Management and maintenance of fuel conversion systems	140
	b. Energy conservation	Exhaust heat treatment system	2,034	Management and maintenance of in-house power generation equipment	682
	Resource circulation cost				
	a. Efficient utilization of resources	—	—	Management and maintenance of wastepaper processing equipment; use of wastepaper as raw material	364
	b. Treating, reducing, and recycling waste	Waste-derived fuels system	4	Management and maintenance of incinerator and boiler equipment; industrial waste processing	489
2. Upstream/downstream cost	Recovering, recycling, and reusing auxiliary materials	—	—	Auxiliary material return	63
	Green procurement and purchasing	—	—	Purchase of environmentally friendly office supplies	8
3. Administration cost	Constructing and operating environmental management systems	—	—	Environmental conservation organizations	398
	Environmental information disclosure	—	—	Preparation of the Sustainability Report and Website	34
	Monitoring and measuring environmental impact	—	—	Analysis and measurement of regulated substances	49
	Environmental education	—	—	Participation in seminars and workshops	1
	Environmental improvement measures	Bank protection work	3	On-site beautification; garden tree pruning	29
4. R&D cost	—	—	R&D relating to environmental protection	2,193	
5. Social activity cost	—	—	Presentation on biodiversity project activities	1	
6. Environmental remediation cost	—	—	Payment of pollution load levy; compensation for fisheries	14	
<b>Total</b>			<b>2,435</b>		<b>5,025</b>

Organizations covered: LINTEC CORPORATION and TOKYO LINTEC KAKO, INC.

The Environmental Accounting Guidelines (2005) from the Japanese Ministry of the Environment were used as a reference.