Contributing to a Sustainable Global Environment

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LINTEC Group's Approach

The LINTEC Group aims to achieve harmony between its corporate activities and the global environment. We are promoting various initiatives under the slogan "The Earth is one, so let's strive for a comfortable environment from a broad perspective."

LINTEC Group Quality, Environmental and Business Continuity Policy

The LINTEC Group sets forth its Basic Policy in the LINTEC Group Quality, Environmental and Business Continuity Policy. To practice specific activities, the Group has drawn up a Quality Policy, Environmental Policy, and Business Continuity Policy, as well as Action Guidelines for each.

Environmental Management System

Based on the LINTEC Group Quality, Environmental and Business Continuity Policy, the LINTEC Group proactively works on conservation of the global environment. With regard to worldwide integrated ISO 14001 certification, in fiscal 2022, we underwent a renewal audit and received a certificate of approval (Issue 16). We have been promoting information sharing among 12 domestic sites and 10 overseas sites covered by the integrated certification. We also underwent third-party verification regarding electric power purchased, production water usage, CO_2 emissions, waste discharge, and VOC[*1] atmospheric emissions. The verification found no important issues requiring correction. For biodiversity conservation, we continue to engage in relevant activities, such as tree planting and beach cleanups. To reduce marine plastic waste, LINTEC CORPORATION has also been a member of CLOMA[*2] and is making efforts as a corporate citizen to propose and promote environmentally friendly products.

LINTEC's Medium-term Targets (FY2020-FY2022) and Results in the Environmental Field

Scope: LINTEC CORPORATION

Item	Target	FY2022 results (year-on-year reduction)
CO_2 emissions	1% reduction from the previous year (per unit of production)	18% improvement Achieved
Electric power consumption	1% reduction from the previous year (per unit of production)	1.7% increase Not achieved
Production water usage	1% reduction from the previous year (per unit of production) (Paper production at the Mishima and Kumagaya plants)	7.6% improvement Achieved
Waste discharge	0.1% reduction from the previous year	11% improvement Achieved

*1 VOC: VOC stands for volatile organic compounds. VOC collectively refers to organic compounds that become gas in the atmosphere.

*2 CLOMA: CLOMA stands for Clean Ocean Material Alliance. It is a platform to promote the sustainable use of plastic products and development and introduction of plastic alternatives, and to accelerate innovation through public-private partnerships, toward the reduction of marine plastic litter. CLOMA was established under the initiative of the Ministry of Economy, Trade and Industry.

Response to TCFD Recommendations

In fiscal 2021, we considered "risks" and "opportunities" related to climate change at a TCFD taskforce with a target period of 2030 (medium-term). In fiscal 2022, we expanded the TCFD subcommittee to include new members and added a long-term period targeting 2050 (long-term) and analyzed the 4°C, 2°C and 1.5°C or lower scenarios while advancing the formulation of a global vision for domestic businesses. As a result, we identified and revised "transition risks and physical risks," and "opportunities" in accordance with the TCFD recommendations.

Furthermore, regarding financial impact, we calculated quantitative impact and examined its degree of impact on business and countermeasures, and worked to improve the disclosed information on "strategy" both qualitatively and quantitatively.

My Next Stage

Within MACTAC, Simply Sustainable is more than a brand. It's our initiative to choose environmental best practices so they can be ingrained in everything we do and simply become a part of who we are. And it simply starts with building a culture that values and celebrates responsible innovation. We accomplish this through focus on our four main sustainability pillars — sourcing, manufacturing, R&D, and diversity and equal rights.

In our manufacturing facilities, it is a two-fold focus, on waste and CO_2 reduction. Coated product waste is either recycled or sent to waste-to-energy plants. We maximize our efforts to minimize our waste production and streamline our production process to reduce our carbon footprint. We've also made significant investments in our CO_2 reduction journey, such as LED lighting installation within our coating facilities (completed in 2022) and our finishing facilities (to be completed in 2023). Updating the lighting not only decreases our CO_2 emissions, but it also reduces maintenance time, waste disposal on used bulbs, and creates a better lit environment for our employees.

Simply Sustainable
https://www.mactac.com/Simplysustainable

Christina Barajas
Sustainability Manager,
MACTAC AMERICAS, LLC

Material Flow

Organizations covered: LINTEC CORPORATION and TOKYO LINTEC KAKO, INC. (other affiliates are not included)

INPUT

Raw materials

Pulp	116,300 tons
Paper	39,900 tons
Film	31,300 tons
Adhesive	19,600 tons
Release agents	2,300 tons
Organic solvents	7,400 tons
Other chemicals	32,800 tons
Mechanical parts	600 tons

Energy

Purchased power	129,000 MWh★ (Crude oil equivalent 32,000 kl)
Fuel (crude oil conversion)	43,000 kl
Self-generated electricity	55,000 MWh (Crude oil equivalent 14,000 kl)
Purchased steam (crude oil equivalent)	5,000 kl

Water

Industrial-use water	7,798,000 m³★

Business Activities of LINTEC

- Raw material procurement
- R&D
- Manufacturing
- Sales

OUTPUT

Products

Specialty papers	73,900 tons
Processing materials (release paper, etc.)	21,300 tons
Adhesive products	67,800 tons
Adhesive-related equipment	1,000 tons

Waste

Waste generated	27,300 tons★
Valuables sold	7,200 tons
Effective internal utilization	8,400 tons
Effective external utilization	7,600 tons
Incineration	4,100 tons
Final landfill disposal	100 tons

Emissions into the atmosphere

CO_2 *3	112,500 tons
SOx	9.4 tons
NOx	107.7 tons
Soot and dust	1.8 tons
Substances subject to the PRTR	359.0 tons

Release into water bodies

Effluent (Kumagaya Plant, Mishima Plant)	5,091,000 m³★

Breakdown of CO_2 emissions

Scope 1 *4	83,600 t-CO_2★
Scope 2 *5	35,800 t-CO_2★
Retired domestic certified emissions reductions	6,900 t-CO_2★
Scope 3 *6	924,400 t-CO_2

Calculation of Scope 3 (excerpted)

Relevant guidelines*7 were referenced for the calculation. The table below outlines the five categories with largest CO_2 emissions.

For details, refer to: https://www.lintec-global.com/sustainability/environment/relation/

Category item		Organizations covered	FY2022 (t-CO_2)
Category 1	Purchased Goods and Services	LINTEC CORPORATION	719,374
Category 3	Fuel- and Energy-Related Activities Not Included in Scope 1 or Scope 2	LINTEC CORPORATION, SHONAN LINTEC KAKO, INC., TOKYO LINTEC KAKO, INC.	38,595
Category 4	Transportation and Distribution (Upstream)	LINTEC CORPORATION, SHONAN LINTEC KAKO, INC., TOKYO LINTEC KAKO, INC.	37,326
Category 5	Waste Generated in Operations	LINTEC COPORATION (excluding Ina Technology Center), TOKYO LINTEC KAKO, INC.	54,790
Category 12	End-of-Life Treatment of Sold Products	LINTEC COPORATION	57,964

*3 SHONAN LINTEC KAKO, INC. and LINTEC SERVICES, INC. are included in the calculation.
*4 Scope 1: Direct CO_2 or other greenhouse gas emissions from the consumption of purchased gas and liquid fuels, such as liquid natural gas (LNG), liquid petroleum gas (LPG), utility gas, kerosene, light oil, and gasoline.
*5 Scope 2: CO_2 or other greenhouse gas emissions generated by other companies in the production of energy, such as electricity and steam, purchased by the reporting company.
*6 Scope 3: While Scope 1 and 2 greenhouse gas (GHG) emissions are generated by the reporting company, Scope 3 GHG emissions are generated by other companies in the reporting company's value chain.
*7 The guidelines below were used for the calculation. We will continue to improve calculation accuracy.
- Technical guidance for Calculating Scope 3 Emission-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)

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Realization of a Recycling-oriented Society

In addition to conventional efforts to reduce the amount of waste generated through continuation of the 3Rs (reduce, reuse and recycle), we are working to improve the efficient use rate of waste by introducing a finer classification of waste, thereby promoting circulation of resources.

Circular Economy

To achieve a sustainable economy and sustainable environments, we are promoting a transition to a circular economy, in which resources are circulated from product production to product use and then to recycling, with product design that limits the generation of waste and pollution from products and production, and the effective use of recycled materials to reduce consumption of new resources. In response to the April 2022 enforcement of the Plastic Resource Circulation Act, which responds to the issues of marine plastic waste, climate change, and tightened regulations on waste imports in other countries, we will work on initiatives to reduce the amount of plastic used at the stages of design and manufacturing, reduce the amount discharged, and recycle plastic.

Initiatives to Preserve Biodiversity

Upholding biodiversity conservation in the LINTEC Group Quality, Environmental and Business Continuity Policy, the LINTEC Group accordingly conducts biodiversity conservation activities in and outside of Japan.

The Tatsuno Plant in Japan maintains and monitors conservation-listed deep-veined maple trees and uses red robin trees for greening purposes. The Chiba Plant covered the west wall of its warehouse with a green curtain in June 2022 for the first time. Vines were seen to grow over four meters in length, as shown in the photo taken in August. We will continue to promote these activities that are close to us.

Deep-veined maple at the Tatsuno Plant

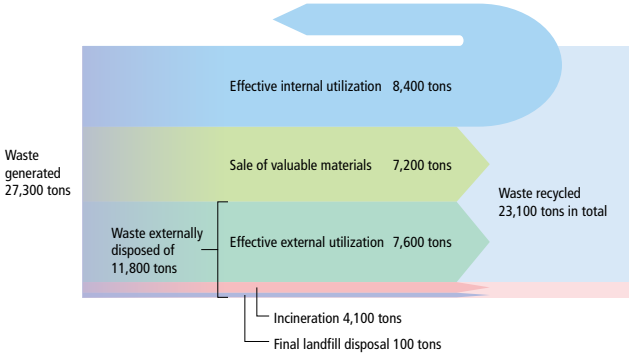
Green curtain at the Chiba Plant

Efforts for Zero Emissions*

We make efforts to achieve a zero landfill disposal rate, including identifying the disposal method of each disposal firm (material recycling, thermal recycling, landfilling) and searching for firms capable of their effective use, switching to recyclable raw materials, and fine classification of waste.

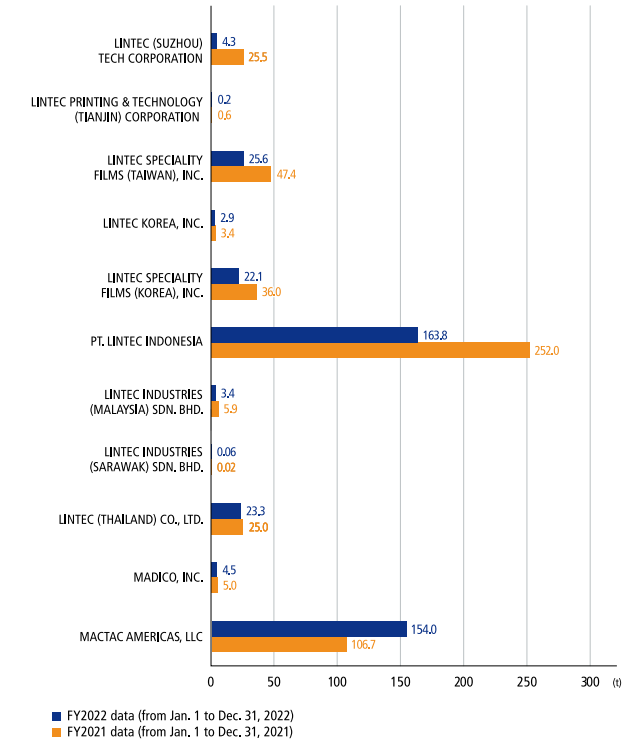
Flow of waste (FY2022)

Organizations covered: LINTEC CORPORATION (Head Office, 10 production sites, and Research Center) and TOKYO LINTEC KAKO, INC.



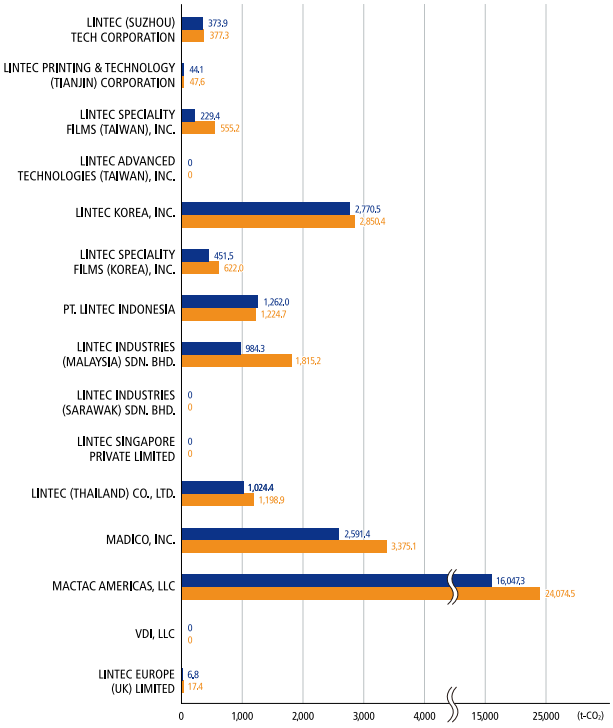
Environment Performance Data in Fiscal 2022

VOC emissions

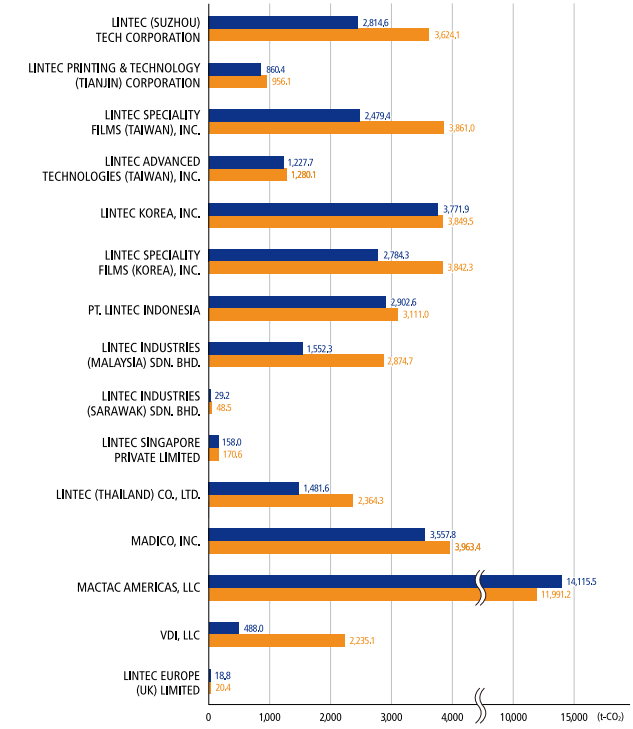


* Zero emissions: LINTEC's standard is a final landfill disposal rate (= Final landfill disposal amount/ Amount of waste generated × 100) of 1% or less.

Scope 1



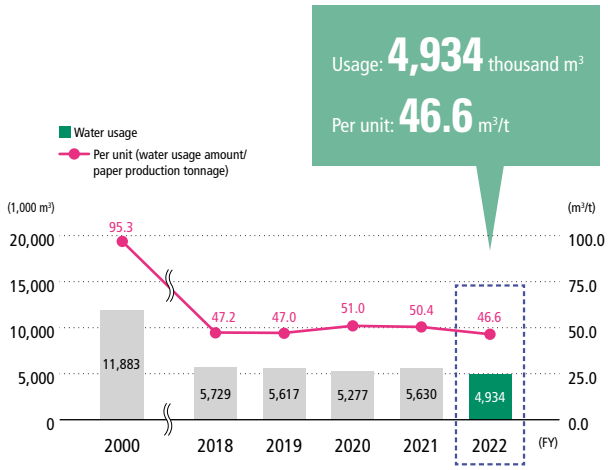
Scope 2



Other Environmental Data

Water usage

Organizations covered: Western paper production sections of the Kumagaya Plant and Mishima Plant



Waste generated

Organizations covered: LINTEC CORPORATION (Head Office, 10 production sites, and Research Center) and TOKYO LINTEC KAKO, INC.