

Greenhouse Gas (GHG) Emissions 2025

GHG Emissions

[Scope of Calculation]

- Scope 1 (Direct Emissions): City gas, LPG, natural gas, bunker A, gasoline, diesel oil, non-energy GHGs, etc.
- Scope 2 (Indirect Emissions): Electricity
- Scope 3 (Other Indirect Emissions): Categories 1 to 15

[Target Companies]

- RISO Group: RISO KAGAKU CORPORATION and 25 consolidated subsidiaries

[Data Collection Period]

- Fiscal Year 2025 (From April 1, 2024, to March 31, 2025)

[Notes]

- Since fiscal year 2025, we have revised our calculation processes to improve data accuracy. As a result, some items may not have continuity with figures from previous years, making them inappropriate for comparison over time.

GHG Emissions (Scopes 1 and 2)

1. GHG Emissions Data by Scope

Unit: t-CO₂e

Scope	FY2025
Scope 1	3,901
Scope 2 (Market-based)	6,691
(Scope 2: Location-based)	(6,364)
Total (Scope 1 + Scope 2 Market-based)	10,591

2. GHG Emissions Data by Gas Type

Unit: t-CO₂e

Gas Type	FY2025	
CO ₂	Energy-related: Scope 1	3,445
	Energy-related: Scope 2 (Market-based)	6,691
	Non-energy-related	4
CH ₄ (Methane)	212	
N ₂ O (Nitrous oxide)	89	
HFCs (Hydrofluorocarbons)	150	
PFCs (Perfluorocarbons)	N/A	
SF ₆ (Sulfur hexafluoride)	0	
NF ₃ (Nitrogen trifluoride)	N/A	
Total	10,591	

* Scope 1: Direct GHG emissions (city gas, LPG, natural gas, bunker A, gasoline, diesel oil, non-energy GHGs, etc.)

* Scope 2: Indirect GHG emissions (electricity)

* FY2025: April 1, 2024 – March 31, 2025

* Total: The total numbers may not be consistent due to rounding.

[Calculation Conditions]

Calculation Method:

Compliant with the GHG Protocol (Corporate Accounting and Reporting Standard.)

Emission Factors:

Scope 1:

<Japan & Overseas>: Based on the "List of Calculation Methods and Emission Factors in the Calculation, Reporting, and Publication System" published by the Ministry of the Environment, Japan

Scope 2:

<Japan>: Market-based: Based on adjusted emission factors for each electric power provider contracted by each site, as listed in the "Emission Factors by Electric Power Provider" published by the Ministry of the Environment. If the provider cannot be identified, the national average emission factor is applied. Location-based: Based on the national average emission factor from the "Emission Factors by Electric Power Provider"

<Overseas>: Market-based and Location-based: Based on country-specific emission factors from the "LCI Database AIST-IDEA Ver. 3.5", IDEA Laboratory, Research Institute of Science for Safety and Sustainability, National Institute of Advanced Industrial Science and Technology.

Global Warming Potential (GWP):

Based on the 100-year GWP values from the IPCC Sixth Assessment Report (AR6)

GHG Emissions (Scope 3)

Unit: t-CO₂e (%)

Category		FY2025	
1	Purchased goods and services	71,402	(73.5)
2	Capital goods	3,058	(3.1)
3	Fuel- and energy-related activities not included in Scope 1 or 2	2,800	(2.9)
4	Upstream transportation and distribution	9,640	(9.9)
5	Waste generated in operations	410	(0.4)
6	Business travel	373	(0.4)
7	Employee commuting	670	(0.7)
8	Upstream leased assets	N/A	
9	Downstream transportation and distribution	3,459	(3.6)
10	Processing of sold products	N/A	
11	Use of sold products	3,482	(3.6)
12	End-of-life treatment of sold products	1,353	(1.4)
13	Downstream leased assets	561	(0.6)
14	Franchises	N/A	
15	Investments	N/A	
Total		97,208	(100)

* FY2025: April 1, 2024 – March 31, 2025

* Total: The total numbers may not be consistent due to rounding.

[Calculation Conditions]

Calculation Method:

Based on the "Basic Guidelines on Accounting for Greenhouse Gas Emissions Throughout the Supply Chain (Ver. 2.4)" issued by the Ministry of the Environment (MOE) and the Ministry of Economy, Trade and Industry (METI) of Japan

Calculation Tool:

"Scope 3 Calculation Tool (FY2025 Edition)" issued by the LCA Promotion Consortium, National Institute of Advanced Industrial Science and Technology (AIST)

Emission Factors:

1. LCI Database AIST-IDEA Ver. 3.5, IDEA Laboratory, Research Institute of Science for Safety and Sustainability (RISS), AIST
2. Emissions Unit Value Database (Ver. 3.5) for calculating organizational greenhouse gas emissions throughout the supply chain, issued by MOE
3. Emission factors for major raw materials provided by suppliers (primary data)

Global Warming Potential (GWP): IPCC 2021 GWP 100a (without LULUCF)

Other Notes:

1. Minor items that have a minimal impact on overall GHG emissions are excluded (cutoff).
2. Emissions from certain processes are excluded from the calculation scope to maintain data accuracy, especially where tallying or estimating actual figures is difficult.

[Calculation Method by Category]

Category		Target	Calculation Method
1	Purchased goods and services	Manufactured and sold equipment, and related consumables	For manufactured equipment and consumables, calculate by multiplying the total amount of constituent materials by the emission intensity. For purchased items, calculate by multiplying the purchase price by the emission intensity of the items.
2	Capital goods	RISO Group's capital investment	Calculate by multiplying the amount of new equipment in the fiscal year by the emission intensity.
3	Fuel- and energy-related activities not included in Scope 1 or 2	Amount of purchased electricity and fuel	Calculate by multiplying the amount of purchased fuel, electricity, heat, etc. by the emission intensity from the resource extraction to the transportation stages.
4	Upstream transportation and distribution	Transportation of manufacture and sales in the printing equipment business and related consumables	Calculate by multiplying the amount of shipment according to transportation methods by the transportation distance, and then by the emission intensity according to the transportation methods.
5	Waste generated in operations	Emissions according to waste types	Calculate by multiplying the amount of shipment to waste treatment/recycling companies by the emission intensity.
6	Business travel	Number of RISO Group employees	Calculate by multiplying the number of employees who traveled on business by the emission intensity per employee.
7	Employee commuting	Number of RISO Group employees and number of working days	Calculated by multiplying the number of employees by the number of working days, and the emission intensity.
8	Upstream leased assets	Not applicable (included in Scope 2)	—
9	Downstream transportation and distribution	Transportation of equipment and consumables from shipping bases to locations where they are used, and from the locations where they are used to collection bases and processing facilities	Calculate by multiplying the amount of shipment according to transportation methods by the transportation distance, and by the emission intensity according to the transportation methods.
10	Processing of sold products	No applicable cases	—
11	Use of sold products	Number of products sold in the fiscal year	Calculate by multiplying the number of products sold in each region by the emission intensity of electricity by region.
12	End-of-life treatment of sold products	Equipment and consumables that have exceeded their lifespan	Calculate by multiplying the quantity to be disposed of by the collection rate, and then by the emission intensity according to the treatment.
13	Downstream leased assets	Energy consumption of leased real estate properties	Calculate by multiplying the leased assets by the emission intensity of energy consumption.
14	Franchises	No applicable cases	—
15	Investments	No applicable cases	—

Third-Party Verification of GHG Emissions

To enhance the reliability of our GHG emission calculations, we have undergone third-party verification by the Japan Quality Assurance Organization (JQA). For our GHG emissions in FY2025, we have obtained the Independent Verification Report from the organization.

RISO KAGAKU CORPORATION

Head Office: 5-34-7 Shiba, Minato-ku, Tokyo 108-8385, Japan

Tel.: +81-(3)5441-6778

URL: <https://www.riso.co.jp/english/>