

GHG (Geenhouse Gas) Emissions 2023

GHG Emissions

GHG Emissions (Scopes 1 and 2)

Scope		FY2019*3	FY2020*3	FY2021*3	FY2022*3	FY2023*3
Total* ⁴ : Scope 1 + Scope 2		11,697	11,299	9,257	9,603	9,314
Scope 1*1		4,677	4,699	3,112	3,400	3,346
	Japan	1,758	1,861	1,632	1,529	1,502
	Overseas	2,919	2,838	1,479	1,871	1,844
Scope 2*2: Location Criteria		7,020	6,600	6,145	6,203	5,968
	Japan	5,064	4,763	4,527	4,588	4,359
	Overseas	1,955	1,837	1,618	1,615	1,609

*1. Direct GHG emissions : City gas, LPG, Natural gas, Kerosene, Bunker A, Gasoline, Diesel oil, Non-energy GHG, etc.

*2. Indirect GHG emissions : Electricity

*3. Fiscal year : From April 1st to March 31st of the following year

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

[Calculation Target]

Riso Group :RISO KAGAKU CORPORATION (Head office and domestic sales, production, and

development bases), domestic sales subsidiaries, overseas manufacturing subsidiaries,

overseas sales subsidiaries

[Calculation Bases]

Calculation method :We referred to the "Greenhouse Gas Emissions Calculation and Reporting Manual"

published by the Ministry of the Environment.

CO₂ Conversion Factor : For Scope 1, we used the values from the "List of Calculation Methods and Emission

Factors in the Accounting, Reporting, and Publication System" published by the Ministry of

the Environment.

:For Scope 2, we referred to "Environmental Data Book 2023" published by our company.

[Unit: t-CO₂e]

GHG Emissions

GHG Emissions (Scope 3)

	Overview	Target	Calculation Method	FY2023*1
Total*2: Scop	ne 3			101,424
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 emissions intensity. For purchased items, calculate by multiplying the purchase price by emissions intensity of the items.	70,795
2	Capital goods	RISO Group's capital investment	Calculate by multiplying the amount of new equipment in the fiscal year by the emissions intensity.	975
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 emissions intensity from the resource extraction stage to the transportation stage.	1,507
4	Upstream transportation and distribution	Logistics volume of the manufacture in the printing equipment business, sales and related consumables	Calculate by multiplying the amount of shipment according to transportation methods by the transportation distance, and then by the emissions intensity according to the transportation methods.	1,612
5	Waste generated in operations	Emissions according to waste types	Calculate by multiplying the amount of shipment to waste treatment/recycling companies by the emissions intensity.	317
6	Business travel	Number of RISO Group employees	Calculate by multiplying the number of employees who traveled on business by the emissions intensity per employee.	373
7	Employee commuting	Number of RISO Group employees and number of working days	Calculate by multiplying the number of working days by the emissions intensity per employee.	677
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 emissions intensity according to the transportation methods.	14,380
10	Processing of sold products	No applicable cases	-	-
11	Use of sold products	Assuming the lifespan of equipment is 5 years, the number of operating units means the total number of units sold	Calculate by multiplying the number of operating units by the emissions intensity of electricity by region.	4,918
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 emissions intensity according to the treatment.	5,780
13	Downstream leased assets	Energy consumption of leased real estate properties	Calculate by multiplying the leased assets by the emissions intensity of energy consumption.	90
14	Franchises	No applicable cases	-	-
15	Investments	No applicable cases	-	-

^{*1.} Fiscal year : A year from April 1st to March 31st of the following year *2. Total : The total numbers may not be consistent due to rounding.

[Calculation Bases]

Calculation method: We referred to "Basic Guidelines for Calculating Greenhouse Gas Emissions through the Supply Chain Ver. 2.4" published by the Ministry of the Environment and the Ministry of Economy, Trade and Industry.

Calculation tool

: We used "Scope 3: Calculation Tool-2023 Edition" published by LCA Promotion Consortium, National Institute of Advanced Industrial Science and Technology.

Emissions intensity :We used the database "IDEA Ver3.3" of the National Institute of Advanced Industrial Science and Technology.

:We used "Database of Emissions per Unit for Calculating Greenhouse Gas Emissions, etc. from Organizations through the Supply Chain" published by the Ministry of the Environment.

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