



Greenhouse gas emissions

In view of the 2050 Carbon Neutral Declaration announced by the government in October 2020 and its new targets to reduce greenhouse gas emissions announced in April 2021, the NOF Group set a new target of reducing CO₂ emissions by 40% by fiscal 2030 compared to fiscal 2013. The Group had already reduced CO₂ emissions by about 20% (compared to fiscal 2013) in fiscal 2022, and is aiming to reduce greenhouse gas emissions and achieve carbon neutrality by 2050.

Scope 1 and 2 CO₂ emissions (FY2022)

(Thousand tons of CO₂)

	Scope 1	Scope 2	Total (Scope 1+2)
NOF	53.3	78.2	131.5
Domestic Group	60.1	83.5	143.6
NOF Group	71.9	103.3	175.3

Scope 3 CO₂ emissions (FY2022) Domestic Group

(Thousand tons of CO₂)

Category	FY2022	Calculating method
Purchased products and services	278.3	Calculated by multiplying the quantity and cost of each item of purchased raw materials, consumables, and repair materials by the emission intensity by division according to the guidelines
Capital goods	22.4	Calculated by multiplying acquisition cost of fixed assets by CO ₂ emission per product according to the guidelines
Fuels and energy-related activities not included in Scope 1 or 2	36.3	Calculated by multiplying the sum of electricity consumption and steam consumption by CO ₂ emission per product according to the guidelines
Transportation and distribution (upstream)	25.0	Calculated from ton-kilometers of transportation for purchased raw materials and ton-kilometers of transportation for delivered products for which the company is the consignor
Waste generated in business activities	8.2	Calculated by multiplying the weight of each type of waste generated at production sites by CO ₂ emission per product according to the guidelines
Business travel	0.5	Calculated by multiplying the number of employees by CO ₂ emission per product according to the guidelines
Employee commuting	1.6	Calculated by multiplying the amount of commuting expenses by CO ₂ emission per product according to the guidelines
Leased assets (upstream)	—	Not applicable
Transportation and distribution (downstream)	—	Not applicable
Processing of sold products	20.6	Calculated by multiplying the sales volume of processed edible oils and industrial explosives by emission intensity according to the guidelines
Use of sold products	Not determined	Calculation is not possible because NOF products are mainly intermediate raw materials and the processing methods utilized by users after delivery are wide-ranging and undisclosed
End-of-life treatment of sold products	0.7	For packaging materials of shipped products, calculated by multiplying the weight of each type by the emission intensity according to the guidelines
Leased assets (downstream)	—	Not applicable
Franchises	—	Not applicable
Investments	—	Not applicable
Total	393.4	

Guidelines utilized: "Emission Factor Database on Accounting for Greenhouse Gas Emissions of an Organization Throughout the Supply Chain (Ver. 3.3)" (issued by the Ministry of the Environment and the Ministry of Economy, Trade and Industry), "IDEA (Ver. 3.1)" (issued by the National Research and Development Agency and National Institute of Advanced Industrial Science and Technology)