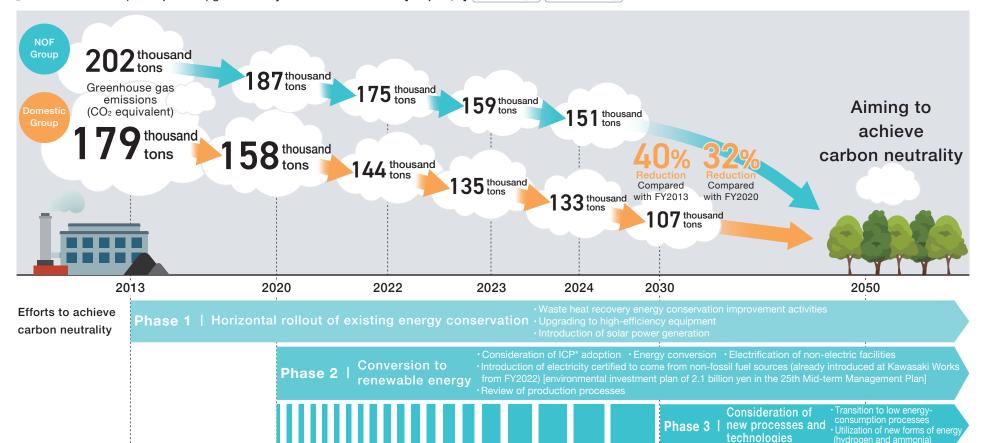
GRI 305-1,2,5

Roadmap toward reducing greenhouse gas emissions

The domestic Group has created a roadmap toward reducing greenhouse gas emissions and is working to mitigate climate change in its business activities. Considering the possibility of an increase in emissions due to business expansion, the Group will aim to become carbon neutral in 2050 by introducing renewable energy as the new Phase 2 and starting to consider new processes and technologies as Phase 3, while also reducing the financial burden associated with transition risks.

Reduction of GHG (CO₂ equivalent) generated by our business activities [Scope 1, 2] NOF Group Domestic Group



305-1,2,3,4,5

Progress and Results for Climate Change

Measures to meet greenhouse gas emission reduction targets

The NOF Group has set a mid-term target of reducing greenhouse gas emissions by 40% from the fiscal 2013 level by fiscal 2030, and a long-term target of becoming carbon neutral by 2050. The 2025 Mid-term Management Plan period is positioned as a period for building up reduction measures to be implemented in the next Mid-term Management Plan period, and we will promote reductions while controlling the increase in emissions associated with the expansion of production facilities.

As a specific measure, in order to increase the use of renewable energy, we will promote the electrification of our facilities and reduce carbon emissions. Furthermore, we are reviewing our production processes and considering improvement measures to minimize environmental impact, such as reducing the amount of energy used, minimizing emissions, and utilizing renewable energy sources. We also plan to expand fuel conversion and the introduction of electricity certified to come from non-fossil fuel sources. During the 2025 Mid-term Management Plan period, we are planning a 2.1 billion yen environmental investment for these initiatives.

Moreover, in order to promote the conversion to renewable energy and decarbonization even more, we are further expanding our trial initiative for

internal carbon pricing (ICP). This initiative not only helps refine the economic assessments of facility investments and business strategies, but also raises employees' awareness of energy conservation and serves as a mechanism to promote decarbonization across all business activities.

We are also advancing greenhouse gas reduction efforts through forest maintenance activities. By utilizing the Fukushima Prefecture Carbon Dioxide Absorption by Forest Maintenance Activities Certification System, we have carried out tree planting and thinning, and received certification for absorbing 282 tons of carbon dioxide from 2012 to 2013.

We will contribute to the mitigation of global warming by taking proactive steps to realize a sustainable future.

Greenhouse gas emissions Domestic Group



GHG reduction measures, including for Scope 3

The NOF Group is working to reduce greenhouse gas emissions across the entire supply chain in line with our CSR guidelines. We participate in the Declaration of Partnership Building, strengthening collaboration with our suppliers. We are also introducing systems and creating frameworks to enable proper evaluation of Scope 3 greenhouse gas emissions.

Progress and Results for Climate Change

RI 305-1,2,3,4,5/306-1,3

S	cope 1 an	d 2 CO ₂ emissions	Domestic Group NOF Group			(Thousand tons of CO ₂)	
			FY2013	FY2022	FY2023	FY2024	FY2030(target)
Don	Domestic Group	Scope 1+2	179	144	135	133	107
DOI		Compared with FY2023	_	(35)	(44)	(46)	(72)
NO	OF Group	Scope 1+2	202	175	159	151	_
NO		Compared with FY2023	_	(27)	(43)	(51)	_

Scope 2 CO₂ emissions according to the location-based criteria and market-based criteria Domestic Group NOF Group

(Thousand tons of CO₂)

	Loc	cation-based cı	riteria	Market-based criteria			
	FY2022	FY2023	FY2024	FY2022	FY2023	FY2024	
Domestic Group	110	106	107	84	84	84	
NOF Group	133	129	124	103	101	102	

Scope 3 calculations (Thousand tons

- ·				(modsand tons of ooz)	
Category	FY2023	FY2024		Calculating method	
Purchased products and services	453.3	520.5	*1	Calculated by multiplying the quantity and cost of each item of purchased raw materials, consumables, and repair materials by emission intensity by division according to the databases*4	
2 Capital goods	53.3	52.5	NOF Group	Calculated by multiplying acquisition cost of fixed assets by emission intensity according to the databases*4	
Fuels and energy-related activities not included in Scope 1 or 2	36.8	38.0	NOF Group	Calculated by multiplying the sum of fuel, electricity, and steam consumption by emission intensity according to the databases*4	
Transportation and distribution (upstream)	26.7	29.9	*2	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; Calculated using the method prescribed under the reporting and disclosure system	
Waste generated in business activities	9.7	10.7	NOF Group	Calculated by multiplying the weight of each type of waste generated at production sites by emission intensity according to the databases*4	*2
6 Business travel	0.5	0.5	NOF Group	Calculated by multiplying the number of employees by emission intensity according to the databases \star_4	
7 Employee commuting	1.4	1.1	*3	Calculated by multiplying the amount of commuting expenses by emission intensity according to the databases*4	
8 Leased assets (upstream)	_	_		Not applicable, as no corresponding activities exist	
Transportation and distribution (downstream)	_	_		Not applicable, as no corresponding activities exist	*3
10 Processing of sold products	17.8	26.6	NOF	Calculated by multiplying the sales volume of edible oils and industrial explosives by emission intensity according to the databases*4	
11 Use of sold products	Not determined	Not determined		Not calculated due to difficulty in collecting the necessary data for calculation	
12 End-of-life treatment of sold products	0.6	292.3	NOF	FY2023: Calculated for packaging materials of shipped products by multiplying the weight of each type with the emission intensity according to the databases*4 FY2024: Calculated by multiplying the weight of containers subject to the Containers and Packaging Recycling Law and the sales volume of chemical products requiring waste disposal with the emission intensity according to the databases*4	*4
13 Leased assets (downstream)	_	_		Not applicable, as no corresponding activities exist	
14 Franchises	_	_		Not applicable, as no corresponding activities exist	
15 Investments	_			Not applicable, as no corresponding activities exist	
Total	600.1	972.1			

- *1 NOF on a standalone basis, 10 domestic affiliate companies (Nichiyu Kogyo Co., Ltd.; YUKA SANGYO CO., LTD.; NiGK Corporation; Showa Kinzoku Kogyo Co., Ltd.; Nippon Koki Co., Ltd.; Nippon Koki Co., Ltd.; Nippo Kogyo Co., Ltd.; NOF METAL COATINGS ASIA PACIFIC CO., LTD.; JAPEX Corp.; NIKKA COATING CO., LTD.; NICHIYU LOGISTICS CO., LTD.), and 2 major overseas affiliate companies (Changshu NOF Chemical Co., Ltd.; PT. NOF MAS CHEMICAL INDUSTRIES)
 - *2 NOF on a standalone basis, 7 domestic affiliate companies (Nichiyu Kogyo Co., Ltd.; YUKA SANGYO CO., LTD.; NiGK Corporation; Showa Kinzoku Kogyo Co., Ltd.; Nippon Koki Co., Ltd.; Nippo Kogyo Co., Ltd.; NOF METAL COATINGS ASIA PACIFIC CO., LTD.)
 - *3 10 domestic affiliate companies (NICHIYU TRADING CO., LTD.; NICHIYU LOGISTICS CO., LTD.; Nichiyu Kogyo Co., Ltd.; YUKA SANGYO CO., LTD.; NiGK Corporation; Showa Kinzoku Kogyo Co., Ltd.; Nippon Koki Co., Ltd.; Nippon Koki Co., Ltd.; Nippon Kogyo Co., Ltd.; JAPEX Corp.; NOF METAL COATINGS ASIA PACIFIC CO., LTD.)
 - *4 Databases used: IDEA Ver. 3.5, IDEA Lab, Research Institute of Science for Safety and Sustainability, National Institute of Advanced Industrial Science and Technology (AIST); Emissions Intensity Database Ver. 3.5 for Calculating the Greenhouse Gas Emissions of Organizations through the Supply Chain (Ministry of the Environment)

Energy consumption and CO₂ emissions

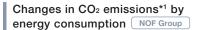
Energy consumption for fiscal 2024 decreased 0.2% from the previous year for the NOF Group, and decreased 1.9% from the previous year for NOF. The total volume of energy-derived CO₂ emissions decreased 4.0% from the previous year to 136,800 tons for the NOF Group, and decreased 1.6% from the previous year to 108,000 tons for NOF.

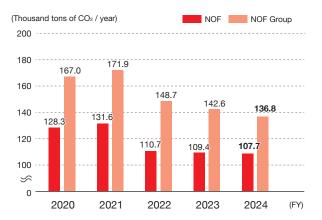
In addition, the energy intensity per unit of production for the NOF Group was 13.8 GJ/t, a 0.4% decrease year-on-year. For NOF, it was 14.1GJ/t, a 3.1% decrease. We will continue to steadily implement the efficient use of energy.

CO₂ emissions other than from energy consumption

At the Aichi Works, NOF manufactures products for specific purposes using perfluorocarbon (PFC), which has a high global warming coefficient, as the diluent for organic peroxides.

In fiscal 2024, PFC emissions decreased approximately 3% from fiscal 2023, due in part to the effects of facility improvements. Going forward, we will aim to reduce emissions through efforts such as maintaining steady operation of recovery equipment and further promoting the use of alternative diluent.

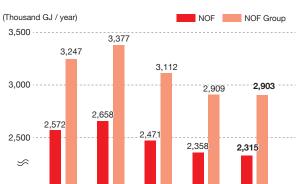




Progress and Results

for Climate Change

Changes in energy consumption*2 NOF Group

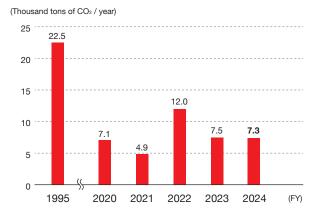


2022

2023

2024

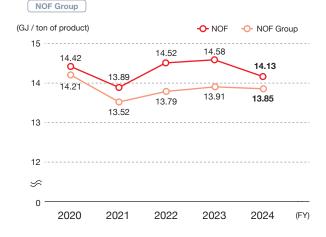
Changes in PFC emissions NOF



Changes in energy intensity per product

2021

2020



*1 The coefficient used in converting the electricity consumption into CO₂ emissions is the emission coefficient used by electric power supply companies in the fiscal year.

^{*2} Energy consumption is estimated using 9.76 MJ/kWh as the coefficient when converting electric power consumption into the calorific value.

Progress and Results for Climate Change

302-3,4/305-1,2,4,5

Energy-saving initiatives

The energy consumption (crude oil equivalent) by the NOF Group in fiscal 2024 was 74,890 kl, down 0.2% from fiscal 2023. The energy consumption per sales (crude oil equivalent) was 0.31 kl/ million yen, down 8.8% from fiscal 2023. By trialing internal carbon pricing and adding it to the economic benefits of small group activities, we are encouraging greater motivation for energy-saving activities such as process improvements and reducing steam consumption through the replacement of steam traps.

These achievements stem from the promotion of energy-saving activities, including reductions in steam usage through process improvements and the management of heat-related equipment.

By reviewing the operation of heating processes and optimizing the required amount of steam, we improved the overall energy efficiency of our facilities and contributed to a reduction in energy

Changes in energy intensity related to sales



consumption.

In addition, to effectively utilize thermal energy, we use steam trap diagnostics to detect equipment deterioration or failures at an early stage, thereby maintaining equipment and ensuring efficient use of thermal energy. We also perform thermal imaging diagnostics on equipment and piping to visualize heat loss, enabling us to promptly implement countermeasures against it.

Renewable energy measures (domestic)

The NOF Group's initiatives in the area of renewable energy include the installation of solar power generation facilities at the Kawasaki Works in 2018 and NiGK Corporation in November 2020 to supply renewable energy for part of the electricity used in production activities. Since then, we have continued installing solar power generation facilities as much as possible, such as on newly constructed production facility buildings, as well as on the rooftops of

Track record of solar power introduction

company housing and dormitories built as employee welfare facilities, thereby promoting initiatives toward a low-carbon society.

Initiatives to reduce CO₂ emissions through the use of biomass fuel

At PT. NOF MAS CHEMICAL INDUSTRIES (NMC) in Indonesia, where palm oil is produced, we are working to reduce CO₂ emissions by sourcing boiler fuel from palm kernel shells (PKS), a biomass fuel made from waste generated after oil extraction.





Biomass fuel (palm kernel shells)

Boiler using biomass fuel

Works / plants	Power generation capacity (kW)	Onerating day		Power generation results (MWh/year)
Daishi Plant	16.6	2.6	365	15.6
Amagasaki Plant (Kansai company housing)	10	4.5	365	16.5
Kinuura Plant (Warehouse No. 38)	20	4.2	242	20.2
NiGK Corporation (Kawagoe Plant)	10	5.3	365	19.2
PT. NOF MAS CHEMICAL INDUSTRIES (NMC)	102	3.2	31	10.1

Progress and Results for Climate Change

GRI 302-3,4/305-1,2,3,4,5

CO₂ emissions intensity during transportation

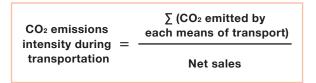
Since the operational launch of our integrated delivery system in fiscal 2006, NOF has been endeavoring for more efficient transportation. NOF has also been tackling modal shifts* and joint delivery.

As a result of advancing a modal shift from truck transport to rail transport, the share of rail and marine transport in total cargo volume has reached 19.3%.

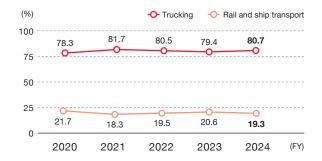
In terms of CO₂ emissions intensity during transportation, if we take fiscal 2006—the first year of implementing the integrated delivery system—as 100, the figure for fiscal 2024 was 42.1.



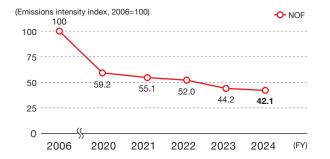
Modal shifting



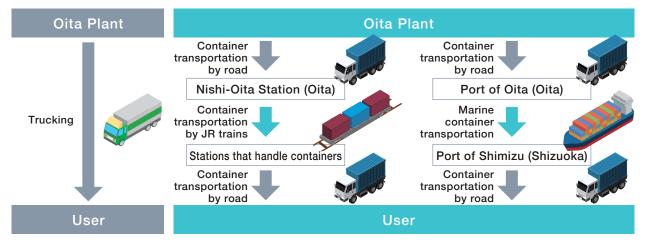
Transportation modal shifts NOF



CO₂ emissions intensity related to transportation NOF



Oita Plant modal shifting scheme



^{*} Enhancing the efficiency of transport and at the same time reducing energy consumption and environmental loads by shifting the mode of transport to large per-unit capacity means such as cargo trains and ships.