## **Energy conservation**

The Nippon Chemi-Con Group has the target of 1% and higher per unit of improvement rate a year based on "Carbon Neutrality Action Plan Phase II" set by electrical and electronics industries from FY2021. To realize carbon neutrality by 2050, we will pursue to reduce CO2 emissions from our production by 46% at manufacturing sites in Japan and by an average of 29% at our overseas manufacturing sites (excluding Samyoung Electronics and Qingdao Samyoung Electronics) in FY2030, compared with FY2013. In addition, activities promoting mainly through the Energy Conservation Working Group, which is composed of the Group's energy management managers.

For Scope 3, the capture rate has been increasing, hence the CO2 emission.

1. Trend in volume of carbon dioxide emissions by Nippon Chemi-Con Group

(Unit: t-CO2)

Trei	ıd in	volume of carbon	dioxide emissions	by Nippon Cher	ni-Con Group			(Unit: t-CO2)
		(FY)	2019	2020	2021	2022	2023	2024
N	lippor	n Chemi-Con Group	469,062	411,936	439,839	428,126	375,494	363,444
		Japan	311,990	259,604	289,251	278,260	238,587	220,456
		Parent Company (head office and manufacturing bases)	116,894	89,343	110,530	95,381	87,395	84,967
		Affiliates in Japan (manufacturing bases)	195,096	170,261	178,721	182,879	151,192	135,489
	(r e: Ele	Overseas Affiliates manufacturing bases xeluding Samyoung setronics and Qingdao imyoung Electronics)	157,072	152,332	150,588	149,866	136,907	142,988
		Scope1	39,150	36,462	41,916	43,714	35,625	35,989
		Scope2	429,912	375,474	397,923	384,412	339,869	327,454
	1	Goods and services purchased	-	-	-	-	350,419	344,468
	2	Capital goods	-	-	-	-	27,559	18,785
	3	Fuel and energy- related activities	-	-	-	70781	61,592	60,762
	4	Transportation and distribution (upstream)	434 ※1	367 ※1	467 ※1	419 ※1	23,401 ※1	18,267
	5	Waste generated from operations	314 ※2	307 ※2	305 ※2	2,060 ※2	1818	1,673
	6	Business trip	12 ※3	12 ※3	11 ※3	11 ※3	796 ※3	764
ory	7	Employee Commuting	1,196 ※4	1,212 ※4	1,133 ※4	1,100 ※4	2,646 ※4	2,543
Category	8	Leased assets (upstream)			Excluded from	n calculation		
Scope3 (	9	Transportation and distribution (downstream)			Excluded from	n calculation		
	10	Processing of sold products			Excluded from	n calculation		
	11	Use of products sold	0	0	0	0		
	12	Disposal of sold products						
	13	Leased assets (downstream)			n calculation			
	14	Franchise						
	15	Investment	-	-	-	-	22,530	10,216
	Sco	pe 3 Total	1956	1898	1916	74371	490761	457,478

#### Calculation Method

		Classification	Scope	Calculation Method
		Scope1	Nippon Chemi-Con Group <sup>**</sup>	These emissions are calculated by multiplying the amount of fuel purchased for heat use within our Group during the fiscal year by the emission factor for each type of fuel specified in the Law Concerning the Promotion of Measures to Cope with Global Warming (Japan).
		Scope2	Nippon Chemi-Con Group <sup>**</sup>	These emissions are calculated by multiplying the amount of electricity purchased by our Group during the fiscal year by the emission factor for each country.For overseas: Emission factors published by the International Energy Agency (IEA) - CO2 Emissions from Fuel Combustion Highlights 2019.For Japan: Emission factors(adjusted emission factor) published by the Federation of Electric Power Companies of Japan.
	1	Goods and services purchased	Nippon Chemi-Con Group <sup>※</sup>	These emissions are calculated by multiplying an emission factor based on the amount of goods and services purchased during the fiscal year.  Emission factor: "Emissions unit values for accounting of greenhouse gas emissions etc., by organizations throughout the supply chain (Ver3.3)" by the Ministry of the Environment.
	2	Capital goods	Nippon Chemi-Con Group <sup>*</sup>	These emissions are calculated by multiplying the amount of capital goods, such as equipment, purchased during the fiscal year by an emission factor per investment amount. Emission factor: "Emissions unit values for accounting of greenhouse gas emissions etc., by organizations throughout the supply chain (Ver3.3)" by the Ministry of the Environment.
	3	Fuel and energy-related activities	Nippon Chemi-Con Group <sup>**</sup>	These emissions are calculated by multiplying the amount of fuel and electricity consumed by the company during the fiscal year by the respective emission factor. Emission factor: "Emissions unit values for accounting of greenhouse gas emissions etc., by organizations throughout the supply chain (Ver3.3)" by the Ministry of the Environment.
	4	Transportation and distribution (upstream)	X1 Before FY2022: Main materials in Japan From FY2023: Nippon Chemi-Con Group <sup>™</sup>	We have reviewed the scope of our calculations in 2023.  These emissions are calculated by multiplying the distance and weight of the cargo transported by the emission factor for each mode of transportation. Emission factor: "Emissions unit values for accounting of greenhouse gas emissions etc., by organizations throughout the supply chain (Ver3.3)" by the Ministry of the Environment.
gory	5	Waste generated from operations	X2 Before FY2021: Transportation of waste at parent company(head office)and manufacturing bases in Japan From FY2022: Nippon Chemi-Con Group <sup>™</sup>	We have reviewed the scope of our calculations in 2022.  These emissions are calculated by multiplying the amount of waste generated by our operations by an emission factor based on the type and disposal method. Emission factor: "Emissions unit values for accounting of greenhouse gas emissions etc., by organizations throughout the supply chain (Ver3.3)" by the Ministry of the Environment.
Scope3 Category	6	Business trip	3 Before FY2022: Parent company (head office) From FY2023: Nippon Chemi-Con Group <sup>™</sup>	We have reviewed the scope of our calculations in 2023.  These emissions are calculated by multiplying an emission factor based on the number of employees. Emission factor: "Emissions unit values for accounting of greenhouse gas emissions etc., by organizations throughout the supply chain (Ver3.3)" by the Ministry of the Environment.
	7	Employee Commuting	**4 Before FY2022: Parent company(head office)and manufacturing bases in Japan From FY2023: Nippon Chemi-Con Group**	We have reviewed the scope of our calculations in 2023.  These emissions are calculated by multiplying an emission factor based on the number of employees. Emission factor: "Emissions unit values for accounting of greenhouse gas emissions etc., by organizations throughout the supply chain (Ver3.3)" by the Ministry of the Environment.
	8	Leased assets (upstream)	-	Use of leased equipment is reported as Scope 1 and 2 emissions.
	9	Transportation and distribution (downstream)	-	Not applicable as the Company is an electronic component manufacturer.
	10	Processing of sold products	-	Not applicable as the Company's products are electronic components and it is difficult to calculate due to the variety of processing methods used by customers.
	11	Use of products sold	Nippon Chemi-Con major product lines	Since capacitors are a component used to store electrical energy, CO2 emissions during use are assumed to be zero.
	12	Disposal of sold products	-	Not applicable as the Company is an electronic component manufacturer.
	13	Leased assets (downstream)	-	Not applicable because there is no applicable business activity.
	14	Franchise	-	Not applicable because there are no franchise stores.
	15	Investment	Equity-method affiliate	These emissions are calculated by multiplying the CO2 emissions of our equity- method investments by our ownership percentage.

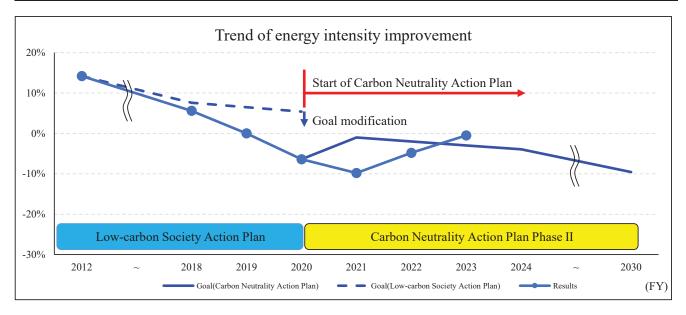
 $<sup>* \</sup> Scope: Overseas \ manufacturing \ bases \ (excluding \ Samyoung \ Electronics \ and \ Qingdao \ Samyoung \ Electronics), \ manufacturing \ bases$ 

#### 2. Trend of energy intensity improvement

Scope: Overseas manufacturing bases (excluding Samyoung Electronics and Qingdao Samyoung Electronics), manufacturing bases in Japan and parent company (head office).

(Unit: %)

(FY)	2012	2019	2020	2021	2022	2023	2024
Rate of based year FY 2020	14.2	5.6	0	-6.4	-9.8	-4.8	-0.5



#### 3. Energy consumption

Scope: Overseas manufacturing bases (excluding Samyoung Electronics and Qingdao Samyoung Electronics), manufacturing bases in Japan and parent company (head office).

(FY)	Unit	2019	2020	2021	2022	2023	2024
Total anaray consumption	MWh	1,239,595	1,066,303	1,069,721	1,147,002	1,116,173	967,090
Total energy consumption	GJ	9,107,587	9,168,384	9,754,314	9,583,293	7,860,954	7,799,010 ※
T 4 1 11	MWh	7	13	18	19	3,367	4,147
Total renewable energy use	GJ	70	130	179	189	29,091	31,755

In accordance with the revision of Japan's "Act on Rationalization of Energy Use and Shift to Non-fossil Energy" in fiscal year 2023, we have revised the coefficients used to convert grid electricity consumption to primary energy.

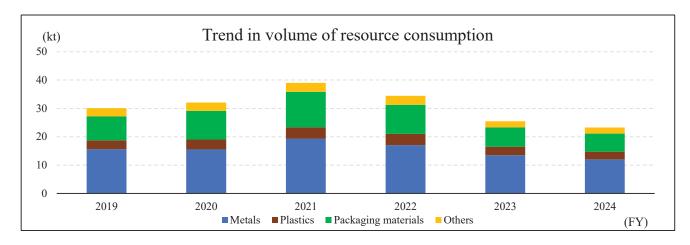
# Resource conservation

In the manufacturing activities of industries, the resources are essential element. Efficient use of such resources will protect global environment and ecology. We encourage the "3R," recycling, reusing, and reducing activities in order to contribute to the preservation of the environment.

1. Trend in volume of resources consumed by Nippon Chemi-Con Group

(Unit: **t**)

(FY)	2019	2020	2021	2022	2023	2024
Metals	15,620	15,504	19,375	17,067	13,467	12,020
Plastics	3,147	3,523	3,955	3,911	3,015	2,717
Packaging materials	8,365	10,120	12,544	10,323	6,830	6,380
Others	2,946	2,925	3,159	3,140	2,163	2,166
Amount	30,078	32,072	39,033	34,441	25,474	23,283

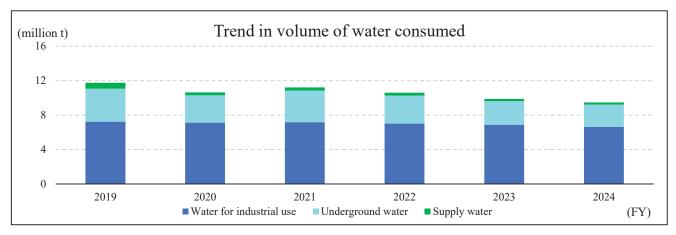


# 2. Trend in volume of water consumed by Nippon Chemi-Con Group.

(Unit: kt)

	(FY)	2019	2020	2021	2022	2023	2024
Water	Water for industrial use	7,238	7,131	7,186	7,022	6,878	6,650
ter consumed	Underground water	3,831	3,169	3,658	3,249	2,732	2,572
ume	Supply water	690	346	368	336	266	251
d	Amount	11,923	11,759	10,647	11,211	10,607	9,473
,	Water discharge	10,120	9,714	9,105	9,316	8,917	8,321

<sup>\*</sup> Scope: Manufacturing bases in Japan and overseas (excluding Samyoung Electronics and Qingdao Samyoung Electronics), head office



<sup>\*</sup> Scope: Overseas manufacturing bases (excluding Samyoung Electronics and Qingdao Samyoung Electronics), manufacturing bases in Japan and parent company (head office).

### [Trend in water consumed volume per unit of production]

(Unit: kt / million JPY)

(FY)	2019	2020	2021	2022	2023	2024
Japan	153	145	140	119	133	124
Overseas	14	11	9	8	8	8

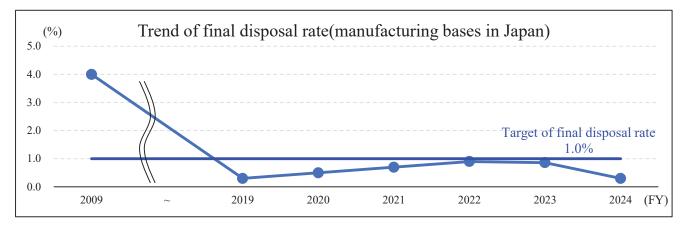
# Waste Reduction

The Nippon Chemi-Con Group has addressed activities for resource recycling and reduction in landfill disposal volumes by reducing the amount of industrial waste generated. We further promote 3R, effective utilization and recycling of resources to reduce wastes including plastic waste and improve the final disposal rate.

#### 1. Trend of final disposal rate (manufacturing bases in Japan))

(Unit: %)

(FY)	2019	2020	2021	2022	2023	2024
Final disposal rate	0.3	0.5	0.7	0.9	0.9	0.3



#### 2. Trends in waste generated

(Unit: t)

	(FY)	2019	2020	2021	2022	2023	2024
Tota	manufacturing bases in Japan	56,389	54,776	58,309	50,723	45,328	43,951
Total waste generated	Overseas Affiliates  (manufacturing bases excluding Samyoung Electronics and Qingdao Samyoung Electronics)	6,580	6,284	6,242	6,409	5,899	5,143
ď	Total	62,969	61,060	64,551	57,132	51,227	49,094
Tot	manufacturing bases in Japan	55,556	53,985	57,455	49,887	44,649	43,670
Total waste recycled	Overseas Affiliates  (manufacturing bases excluding Samyoung Electronics and Qingdao Samyoung Electronics)	658	496	1070	318	295	398
	Total	56,214	54,481	58,525	50,205	44,944	44,068
fir	manufacturing bases in Japan	189	271	426	464	391	141
final disposal volume	Overseas Affiliates  (manufacturing bases excluding Samyoung Electronics and Qingdao Samyoung Electronics)	5,922	5,788	5,172	6,091	5,604	4,745
	Total	6,111	6,059	5,598	6,555	5,995	4,886

# **Chemical Management**

We, Nippon Chemi-Con Group, proper manage of chemical substances and every year, we inform the report for below the substances following on Japanese PRTR (Pollutant Release and Transfer Register).

## 1. Outline of the reports for Japanese PRTR

(Unit: kg)

	Chemical	Rel	Release		nsfer			
Class I designated chemical substances	Substance Control Number	Released into the atmosphere	Released into public water areas	Transferred to a sewage system	Transferred outside the business site	Amount of release	Amount of transfer	
Antimony and its compounds	31	0	0	0	1.7	0	1.7	
Xylene	80	17	0	0	0	17	0	
Cobalt and its compounds	132	0	0	0	0	0	0	
Triethylamine	277	0	0.1	1.5	1,070	0.1	1,072	
1,2,4-trimethylbenzene	296	23.9	0	0	0	23.9	0	
Toluene	300	2,500	0	0	620	2,500	620	
Boron compounds	405	213	5,860	26	7,410	6,073	7,436	
Manganese and its compounds	412	0	0	0	0	0	0	
Methylnaphthalene	438	106	0	0	0	106	0	

# 2. Trend of amount of release and transfer concerning Japanese PRTR.

(Unit:t)

(FY)	2019	2020	2021	2022	2023	2024
Transfer	16	9	9	10	11	9
Release	18	18	18	17	8	9

# **Environmental Accounting**

Our Group is engaged in activities to improve and prevent environmental accidents by investing in environmental measures such as energy conservation, resource conservation, keeping legal compliance, and preventing from environmental risk.

(Unit: million yen)

(FY)	2019	2020	2021	2022	2023	2024
Investment and measures evaluated	39	50	68	53	49	37
Environment-related amount of the above investment	356	71	210	325	317	97
Direct Effect	127	44	47	62	50	37
Indirect Effect	12	4	8	4	10	3

# Nippon Chemi-Con Activity for SDGs (Sustainable Development Goals)



Goal		Goal	Implementation content
Goal 1 (No Poverty)	1 MOVERTY	End poverty in all its forms everywhere	_
Goal 2 (Zero hunger)	2 ZERO HUNGER	End hunger, achieve food security and improved nutrition and promote sustainable agriculture	_
Goal 3 (Good health and well-being)	3 GOOD HEALTH AND WELL-BEING	Ensure healthy lives and promote well-being for all at all ages	Healthy Company (Chemi-Con Report)
Goal 4 (Quality education)	4 QUALITY EDUCATION	Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	_
Goal 5 (Gender equality)	5 GENDER COLUMN	Achieve gender equality and empower all women and girls	Diversity/Human Resource Development/Employee Safety (Chemi-Con Report) Business Conduct Guidelines(Official site)
Goal 6 (Clean water and sanitation)	6 CLEAN WATER AND SANITATION	Ensure availability and sustainable management of water and sanitation for all	Environment Management (Chemi-Con Report) Environmental Data (This document)
Goal 7 (Affordable and clean energy)	7 AFFORDABLE AND CLEAN ENERGY	Ensure access to affordable, reliable, sustainable and modern energy for all	Environment Management(Chemi-Con Report) Environmental Data (This document)
Goal 8 (decent work and economic growth)	8 DECENT WORK AND ECONOMIC GROWTH	Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all	Diversity/Human Resource Development/Employee Safety (Chemi-Con Report)
Goal 9 (industry, innovation and infrastructure)	9 INDUSTRY PRODVATION AND REASTRUCTURE	Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation	_
Goal 10 (Reduced inequalities)	10 REDUCED INEQUALITIES	Reduce inequality within and among countries	_
Goal 11 (Sustainable cities and communities)	11 SUSTAINABLE CITIES AND COMMUNITIES	Make cities and human settlements inclusive, safe, resilient and sustainable	_
Goal 12 (Responsible consumption and productions)	12 RESPONSIBLE CONSUMPTION AND PRODUCTION	Ensure sustainable consumption and production patterns	Environment Management(Chemi-Con Report) Environmental data (This document)
Goal 13 (Climate action)	13 cumate	Take urgent action to combat climate change and its impacts	Environment Management(Chemi-Con Report) Environmental data (This document)
Goal 14 (Life below water)	14 LIFE BELOW WATER	Conserve and sustainably use the oceans, seas and marine resources for sustainable development	Environment Management(Chemi-Con Report) Environment Volunteer Activities (Chemi-Con Report)
Goal 15 (Life on land)	15 LIFE ON LAND	Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss	Environment management (Chemi-Con Report) Business Conduct Guidelines (Official site) Environmental data (This document)

Goal		Goal	Implementation content
Goal 16 (Peace, justice and strong institutions)	16 **和と公正を すべての人に	sustainable development provide access to justice for	Business Conduct Guidelines, responsible minerals procurement, and Participation in the UN Global Compact.  (Official site)
Goal 17 (Partnership for the goals)	17 /4-197-5-975 BREBRUSS	Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development	Participation in the UN Global Compact (Official site)