

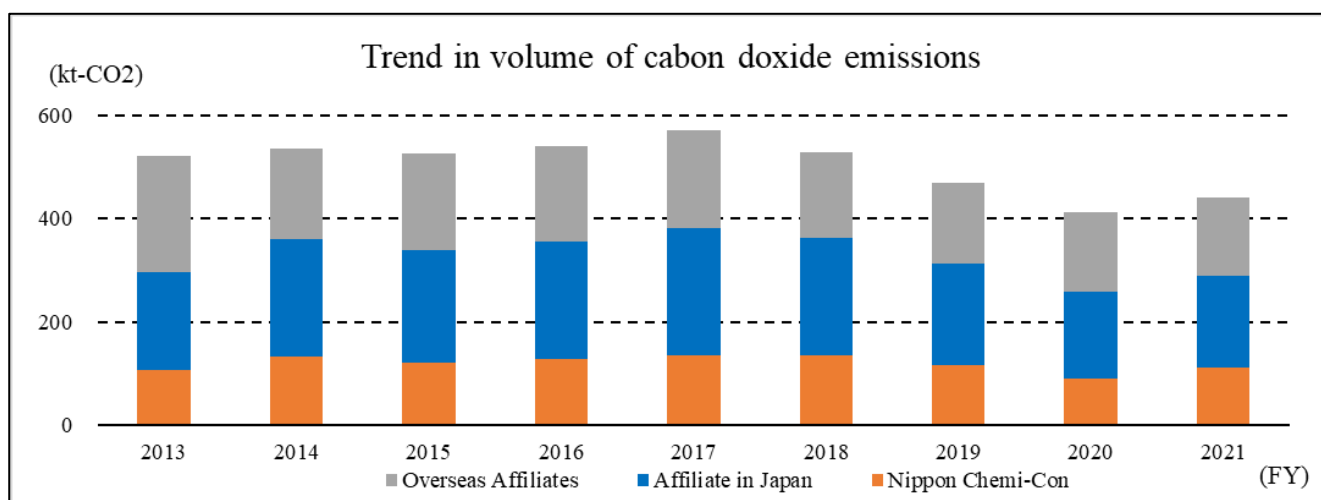
## Energy conservation

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” of Japanese 4 Industrial Associations from FY2021, and we are promoting activities of the energy conservation working groups that are organized by the employees in charge of energy.

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

(Unit: t-CO<sub>2</sub>)

(FY)	2016	2017	2018	2019	2020	2021
Nippon Chemi-Con Group	539,005	571,346	527,198	469,062	411,936	439,839
Japan	354,020	380,583	361,675	311,990	259,604	289,251
Parent Company (head office and manufacturing bases)	127,810	134,448	136,070	116,894	116,894	110,530
Affiliates in Japan (manufacturing bases)	226,210	246,135	225,605	195,096	195,096	178,721
Overseas Affiliates (manufacturing bases excluding Samyoung Electronics and Qingdao Samyoung Electronics)	184,985	190,764	165,523	157,072	152,332	150,588

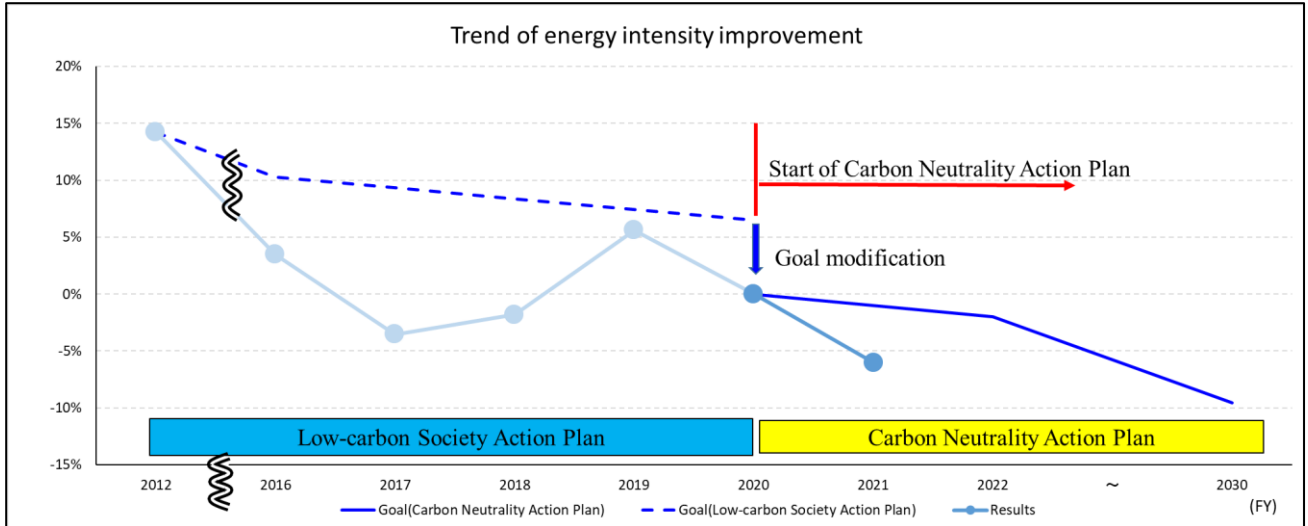
(Calculated by CO<sub>2</sub> emissions coefficient after adjustment)

2. Trend of energy intensity improvement

[Manufacturing bases in Japan and overseas (excluding Samyoung Electronics and Qingdao Samyoung Electronics )

(Unit: %)

(FY)	2012	2016	2017	2018	2019	2020	2021
Rate of based year FY 2020	14.2	3.5	-3.5	-1.8	5.6	0.0	-6.0



## 3. Investigation of GHG emission for Scope 3

We regard the reduction of carbon dioxide emissions as an important theme, and we are also conducting a survey in Scope 3 as an indirect emission.

## [Upstream Transportation and Distribution]

(Unit: t-CO<sub>2</sub>)

(FY)	2016	2017	2018	2019	2020	2021
Category4, Scope3	541	512	529	434	367	467

\* Scope: Main materials in Japan

## [Waste Generated in Operations (Transportation)]

(Unit: t-CO<sub>2</sub>)

(FY)	2016	2017	2018	2019	2020	2021
Category5, Scope3	-	356	415	314	307	305

\* Scope: Parent and affiliates in Japan

## [Business Travel]

(Unit: t-CO<sub>2</sub>)

(FY)	2016	2017	2018	2019	2020	2021
Category6, Scope3	12	12	12	12	12	12

\* Scope: Parent company

## [Employee commuting]

(Unit: t-CO<sub>2</sub>)

(FY)	2016	2017	2018	2019	2020	2021
Category7, Scope3	1,232	1,268	1,259	1,196	1,212	1,133

\* Scope: Parent and affiliates in Japan

## [Operation of upstream leased assets in Nippon Chemi-Con Group]

(Unit: t-CO<sub>2</sub>)

(FY)	2016	2017	2018	2019	2020	2021
Category 8, Scope3	0	0	0	0	0	0

\* Scope: Entire Nippon Chemi-Con Group

## [Downstream Transportation and Distribution]

(Unit: t-CO<sub>2</sub>)

(FY)	2016	2017	2018	2019	2020	2021
Category 9, Scope3	1,776	1,678	1,918	1,578	1,603	1,780

\* Scope: Parent and affiliates in Japan

## [Use of sold products]

(Unit: t-CO<sub>2</sub>)

(FY)	2016	2017	2018	2019	2020	2021
Category 11, Scope3	0	0	0	0	0	0

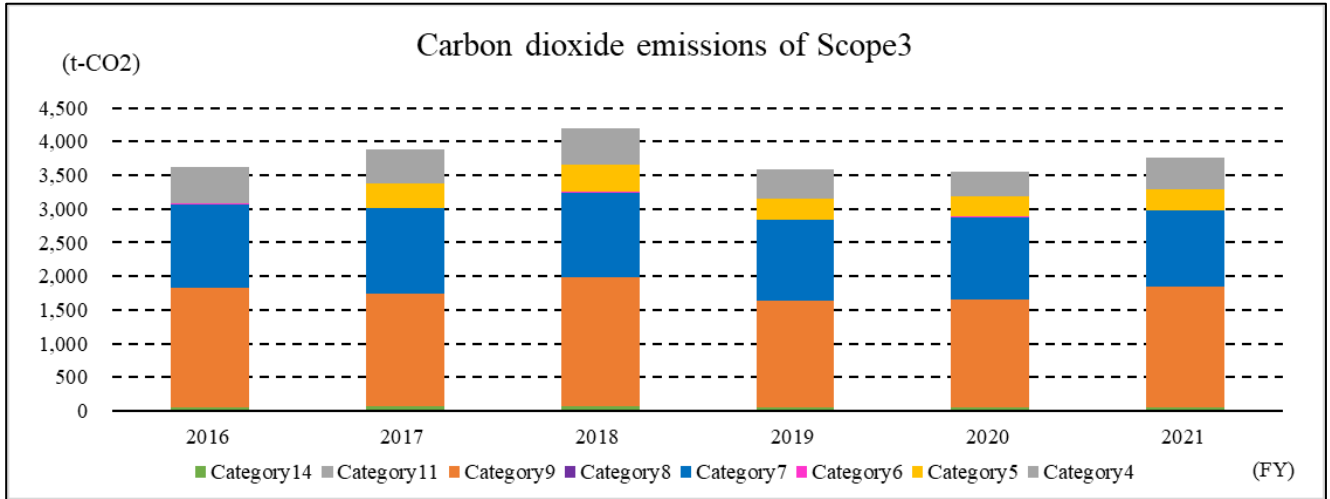
\* Scope: Entire Nippon Chemi-Con Group

[Franchises]

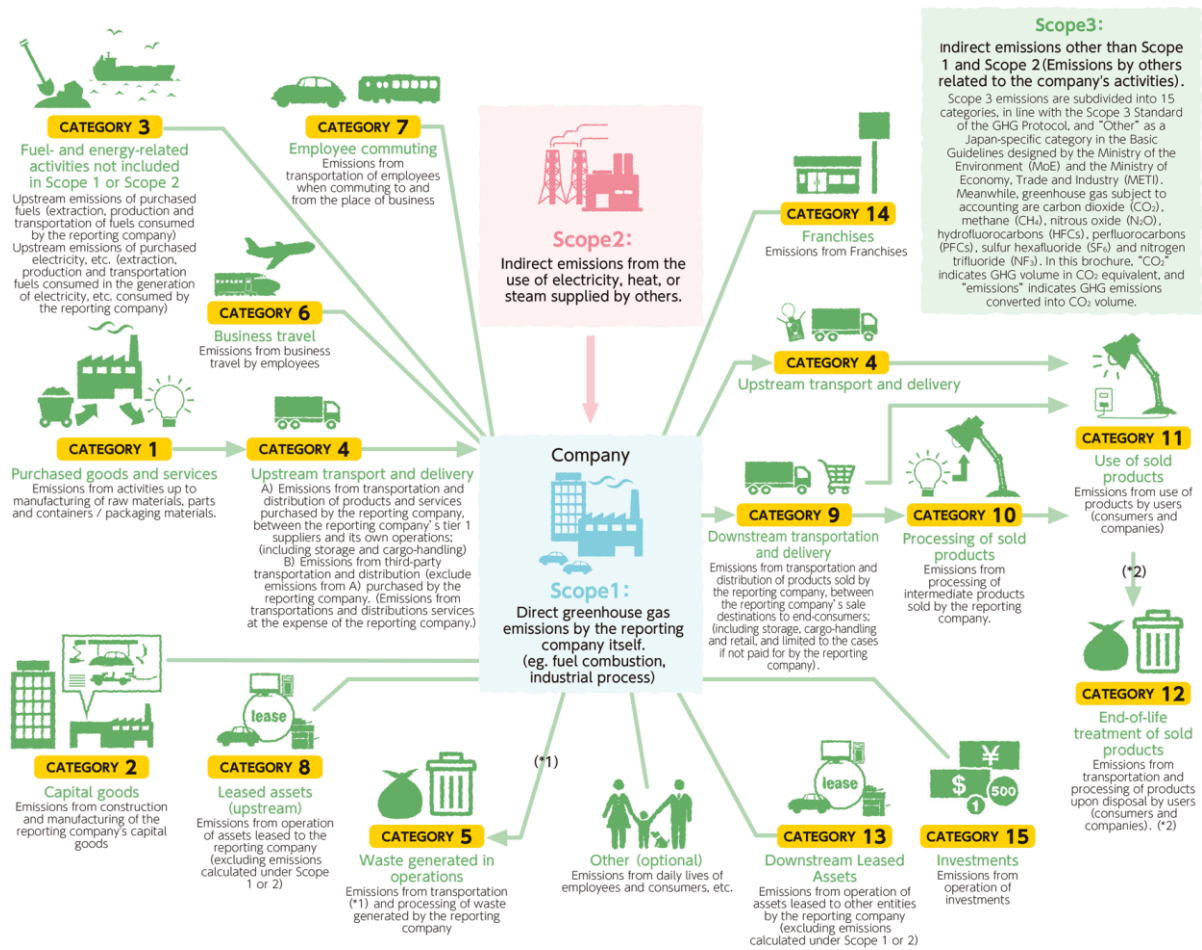
(Unit: t-CO<sub>2</sub>)

(FY)		2016	2017	2018	2019	2020	2021
Category	Japan	61	62	62	59	60	60
	Overseas	897	881	895	850	861	806

\* Each every year, our CO<sub>2</sub> emissions are increasing, because of we gradually grasp more accurate for Scope3.



The definition of each category for GHG Scope3 is as below.



Source: Ministry of Environment in Japan (What is "Supply-chain emissions")

## Resource conservation

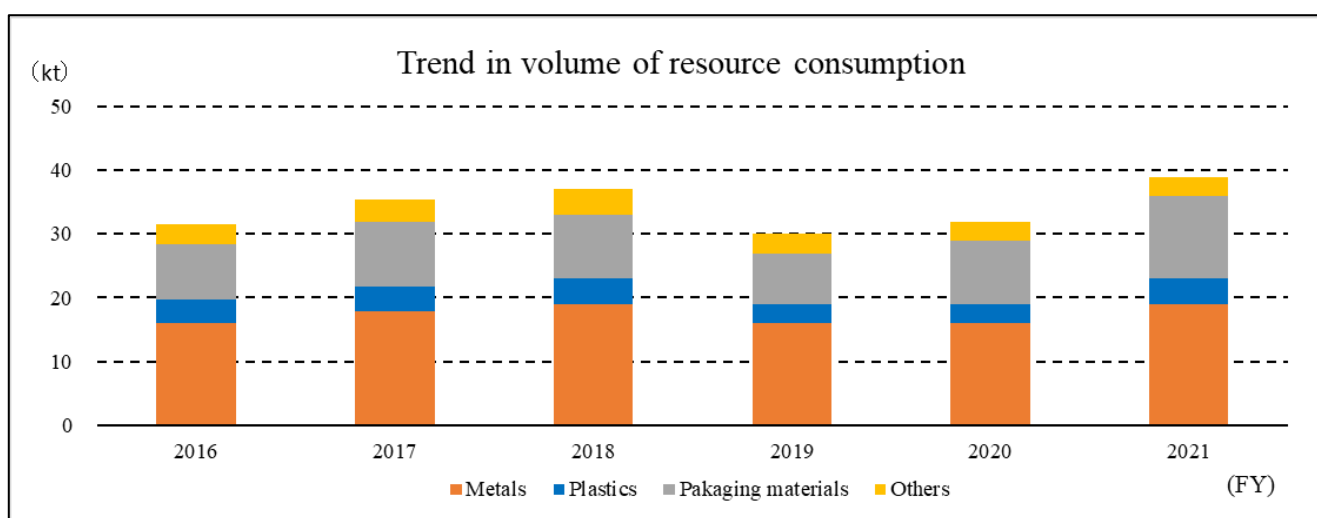
In the manufacturing activities of industries, the resources are essential element. Efficient use of such resources will protect global environment and ecology. We encourage the “3R,” recycling, reusing, and reducing activities in order to contribute to the preservation of the environment.

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

(Unit: t)

(FY)	2016	2017	2018	2019	2020	2021
Metals	15,990	17,865	18,554	15,620	15,504	19,375
Plastics	3,736	3,928	4,090	3,147	3,523	3,955
Packaging materials	8,726	10,136	10,371	8,365	10,120	12,544
Others	3,073	3,470	3,597	2,946	2,925	3,159
Amount	31,526	35,398	36,612	30,078	32,073	39,033

\* Scope: Manufacturing bases in Japan and overseas



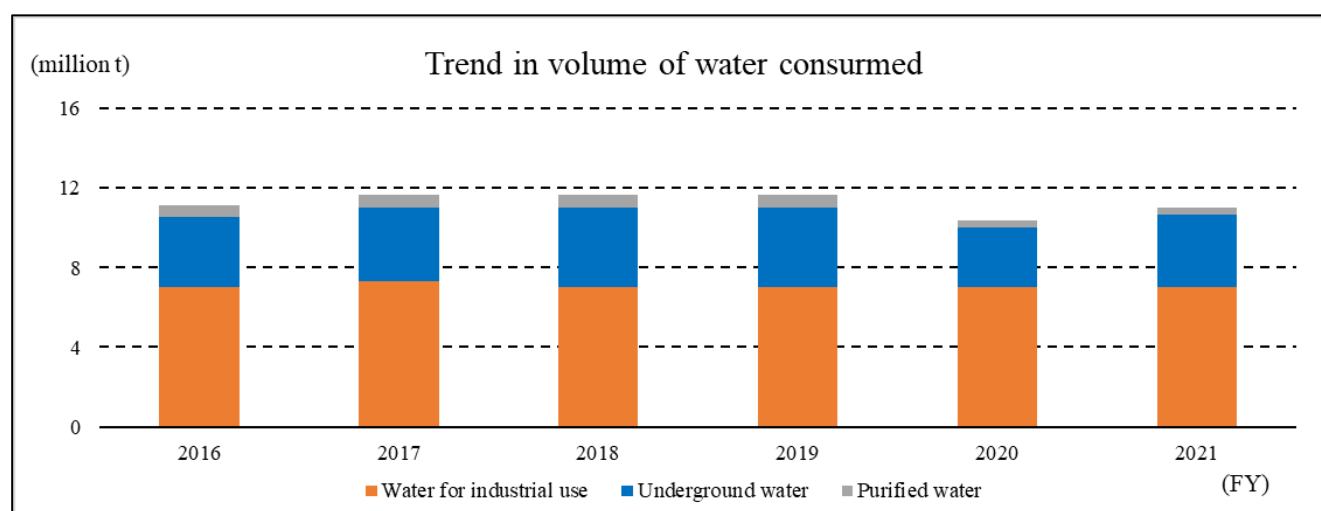
\* Scope: Manufacturing bases in Japan and overseas

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

(Unit: kt)

(FY)		2016	2017	2018	2019	2020	2021
Water consumed	Water for industrial use	7,281	7,332	7,234	7,238	7,131	7,186
	Underground water	3,570	3,714	4,015	3,831	3,169	3,658
	Purified water	569	619	674	690	346	368
	Amount	11,420	11,665	11,923	11,759	10,647	11,211
Water discharge		9,291	9,535	10,120	9,714	9,105	9,316

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



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

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

(Unit: kt / million JPY )

(FY)	2016	2017	2018	2019	2020	2021
Japan	144	135	134	153	145	140
Overseas	12	10	11	14	11	9

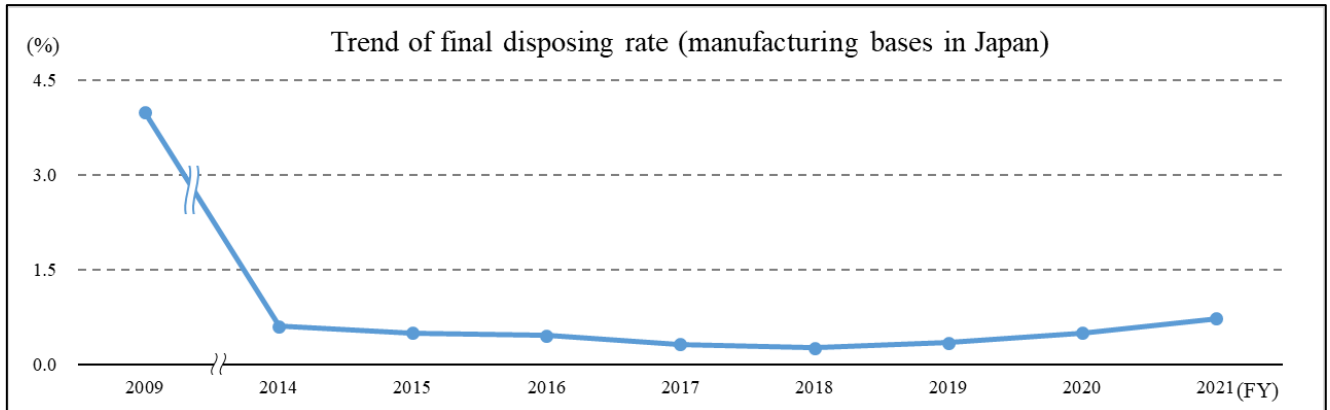
## Waste Reduction

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 disposing rate (manufacturing bases in Japan)

(Unit: %)

(FY)	2016	2017	2018	2019	2020	2021
Final disposing rate	0.5	0.3	0.3	0.3	0.5	0.7



## Chemical Management

We, Nippon Chemi-Con Group, properly manage 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 in FY2021

(Unit: kg)

Class I designated chemical substances	Cabinet Order Number	Release		Transfer		Amount of release	Amount of transfer
		Released into the atmosphere	Released into public water areas	Transferred to a sewage system	Transferred outside the business site		
Antimony and its compounds	31	0	0	0	10	0	10
Xylene	80	24	0	0	0	24	0
Cobalt and its compounds	132	0	0	0	0	0	0
Triethylamine	277	0	0	3	660	0	663
1,2,4-trimethylbenzene	296	28	0	0	0	28	0
Toluene	300	3,900	0	0	980	3,900	980
Boron compounds	405	403	13,289	32	7,223	13,692	7,255
Manganese and its compounds	412	0	0	0	0	0	0
Methylnaphthalene	438	123	0	0	0	123	0

(Unit:t)

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

(FY)	2016	2017	2018	2019	2020	2021
Transfer	21	20	20	16	9	9
Release	19	20	19	18	18	18

### 3. Consume of chemical substances

[Amount of Entire Nippon Chemi-Con Group]

(Unit:t)

(FY)	2016	2017	2018	2019	2020	2021
Consume of chemical substances	5,378	5,953	5,974	5,145	5,434	6,344

[Consume of chemical substances per production]

(Unit:t / million JPY)

(FY)	2016	2017	2018	2019	2020	2021
Japan	1.30	1.29	1.39	1.19	1.36	1.41
Overseas	0.12	0.11	0.11	0.11	0.11	0.11



## 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)	2016	2017	2018	2019	2020	2021
Investment and measures evaluated	34	45	49	39	50	68
Environment-related amount of the above investment	84	132	644	356	71	210
Direct Effect	353	333	359	127	44	48
Indirect Effect	4	9	9	12	4	3














## Others (Environmental load)

From a Life Cycle Assessment perspective, we are creating standard data on the environmental load of electrolytic capacitors. The grasped information is available on as below the web-site in the Japan Electronics and Information Technology Industries Association (JEITA).

URL: <https://home.jeita.or.jp/cgi-bin/page/detail.cgi?n=1288&ca=21>

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



Goal		Implementation content
Goal 1 (No Poverty)		End poverty in all its forms everywhere。 —
Goal 2 (Zero hunger)		End hunger, achieve food security and improved nutrition and promote sustainable agriculture —
Goal 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)		Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all —
Goal 5 (Gender equality)		Achieve gender equality and empower all women and girls Human Resources Investment (Chemi-Con Report) Business Conduct Guidelines (Official site)
Goal 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)		Ensure access to affordable, reliable, sustainable and modern energy for all What we offer (Chemi-Con Report) Environment Management (Chemi-Con Report) Environmental Data (This document)
Goal 8 (decent work and economic growth)		Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all Human Resources Investment (Chemi-Con Report)
Goal 9 (industry, innovation and infrastructure)		Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation —
Goal 10 (Reduced inequalities)		Reduce inequality within and among countries —
Goal 11 (Sustainable cities and communities)		Make cities and human settlements inclusive, safe, resilient and sustainable —
Goal 12 (Responsible consumption and productions)		Ensure sustainable consumption and production patterns Environment Management (Chemi-Con Report) Environmental data (This document)
Goal 13 (Climate action)		Take urgent action to combat climate change and its impacts Environment Management (Chemi-Con Report) Environmental data (This document)
Goal 14 (Life below water)		Conserve and sustainably use the oceans, seas and marine resources for sustainable development Environment Volunteer Activities (Chemi-Con Report)
Goal 14 (Life below water)		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		Implementation content
Goal 16 (Peace, justice and strong institutions)		Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels
Goal 17 (Partnership for the goals)		Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development
		Business Conduct Guidelines, responsible minerals procurement, and Participation in the UN Global Compact. (Official site)
		Participation in the UN Global Compact (Official site)

## CHEMI-CON REPORT:

<https://www.chemi-con.co.jp/en/company/ir/library/chemi-con-report/>

## Environmental data:

<https://www.chemi-con.co.jp/company/sustainability/environment/data.html>

## Nippon Chemi-Con Group Business Conduct Guidelines:

<https://www.chemi-con.co.jp/en/company/sustainability/governance/compliance/charter.html>

## Responsible minerals procurement:

<https://www.chemi-con.co.jp/en/company/sustainability/society/procurement/minerals.html>

## Participation in the UN Global Compact:

<https://www.chemi-con.co.jp/en/company/sustainability/philosophy/ungc.html>