



# CSR Report

**Data Book: October 1, 2019–March 31, 2020**

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About CSR (Corporate Social Responsibility)

CSR is the general term for activities focused on achieving sustainable development for the company and society based on the philosophy that the responsibility of a corporation is not simply to adhere to the law and pursue profits for the company, but also to fulfill responsibilities to society based on an ethical code.

Based on the above Basic Principles, the Nichino Group is pushing forward the establishment of a CSR promotion system.

**Editorial Policy**

This CSR Report summarizes The Nihon Nohyaku Group activities using the following as references: Environmental Reporting Guidelines (2018) by the Japanese Ministry of the Environment, Environmental Accounting Guidelines (2003) by the Japan Chemical Industry Association (JCIA), and JIS Z 26000: 2012 Guidance on Social Responsibility by the Japanese Standards Association, etc.

**[Scope of applicability]** Unless otherwise noted, performance data is from Nihon Nohyaku Co., Ltd. and Nichino Service Co., Ltd.

**[Data aggregation period]** Unless otherwise noted, the 121st fiscal year (October 2019 to March 2020, denoted in this text simply as "fiscal year [FY]"). Capital, numbers of employees, net sales, etc., displayed in this text are as of the end of March 2020.

**[Issue]** October 2020 (Next: Planned for September 2020)

\* Pursuant to the Partial Amendment to the Articles of Incorporation approved at the 120th Ordinary General Meeting of Shareholders held on December 20, 2019, Nihon Nohyaku has changed its fiscal year end from September 30 to March 31, effective from the 121st fiscal year.

# About the Nihon Nohyaku Group

The Nihon Nohyaku Group (hereinafter referred to as the Nichino Group\*) has outlined the Basic Principles of the Nichino Group as basic management principles shared by all executives and employees, and which serve as the foundation for all our business activities.

\*The Nichino Group refers to the consolidated Group companies, the non-consolidated subsidiaries accounted for by the equity method and the non-consolidated Group companies listed in page 14.

## The Basic Principles of the Nihon Nohyaku Group

- We contribute to society by ensuring a safe and steady food supply and improving the quality of life for all.
- We fulfill market needs by creating superior values with innovative technologies.
- We commit to being a trustworthy company for all stakeholders through our fair and vigorous business activities.

Based on this Basic Principles, we have established the Nichino Group Action Charter that is applied to all executives and employees.

## The Nihon Nohyaku Group Action Charter

1. We improve the quality of life for all by providing safe and effective products and services that satisfy our customers.
2. We conduct fair and transparent business operations, respecting social ethics and complying with related laws, regulations and the spirit thereof.
3. We contribute to the realization of a sustainable society, considering the global environment.
4. We actively communicate and contribute to our communities as a good corporate citizen.
5. We properly manage corporate information and disclose it in a timely and appropriate manner.
6. We recognize the importance of personal data, intellectual property and other information, and safeguard it under proper protection and management.
7. We ensure a safe and comfortable work environment for our employees, always respecting human rights and the diversity found among people and cultures.
8. We entirely exclude involvement with antisocial forces and organizations, and resolutely refuse unreasonable requests.
9. We respond to globalization of business activities by adhering to international rules and local laws. We conduct activities with respect for the cultures and customs of local societies, and contribute to the development of each country and region.
10. We promote the sound and sustainable development of the Nichino Group to ensure our social contribution.

The Nichino Group also applies “Chemical Innovator for Crop & Life” as a corporate statement that further solidifies the principles of our Basic Principles and Action Charter. Through this statement, we challenge ourselves to ensure a safe and steady food supply and to improve the quality of life for all through technical innovation.



## About Sustainable Development Goals (SDGs)



The Summit on the Sustainable Development Goals held at the United Nations Headquarters from September 25 to 27, 2015. Leaders from over 150 member nations participated and the summit resulted in the creation of the 2030 Agenda for Sustainable Development Goals. This Agenda outlines recommendations and goals as an action plan for people, the earth, and prosperity. These goals are a continuation of the Millennium Development Goals (MDGs). The SDGs consist of the 17 goals indicated in the symbolized by the logos on the right and 169 targets.

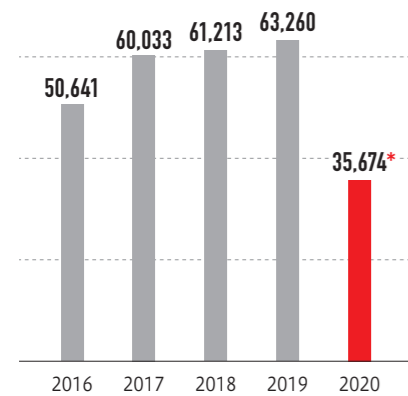


# Financial and Non-Financial Highlights

## Financial Information (consolidated)

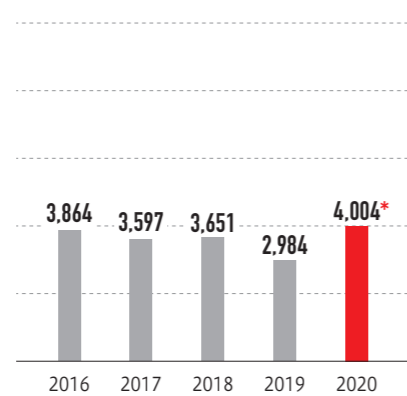
### Sales

(million yen)



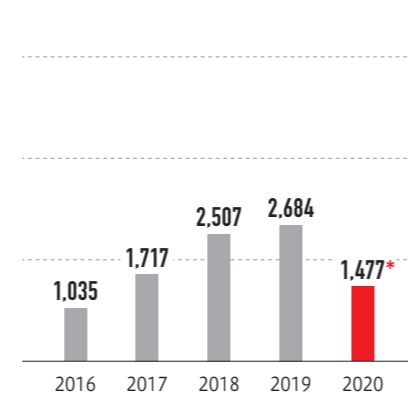
### Ordinary income

(million yen)

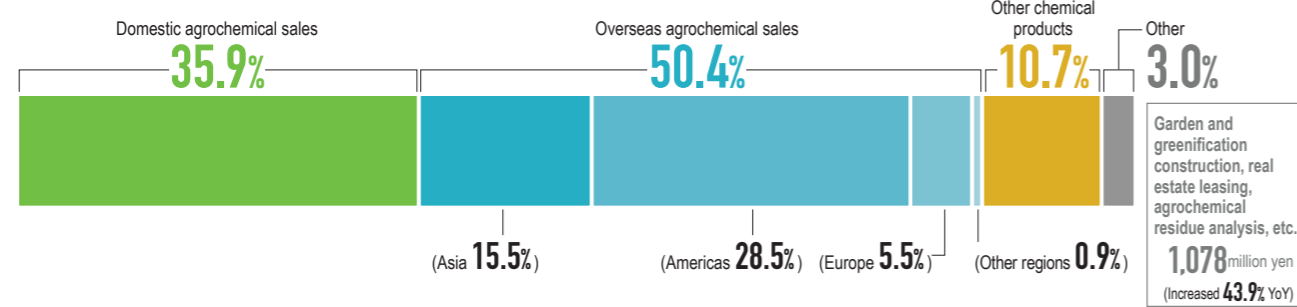


### Profit attributable to owners of parent

(million yen)



## Status by business division

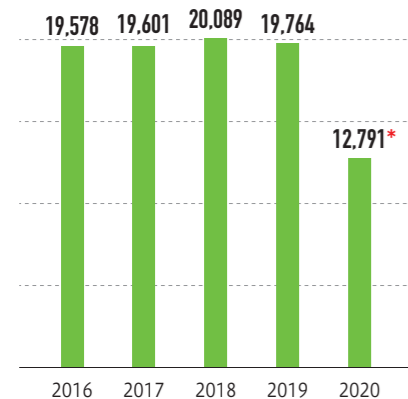


### Domestic agrochemical sales

Sales **12,791** million yen  
(Decreased 35.3% YoY)



(million yen)

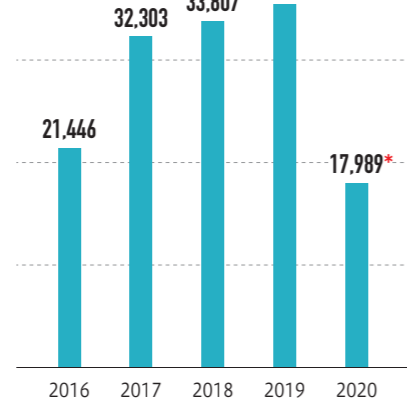


### Overseas agrochemical sales

Sales **17,989** million yen  
(Decreased 49.3% YoY)



(million yen)

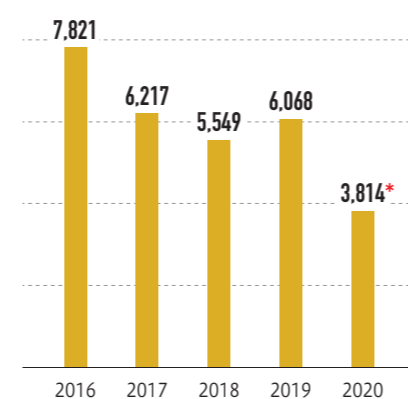


### Other chemical products

Sales **3,814** million yen  
(Decreased 37.1% YoY)



(million yen)

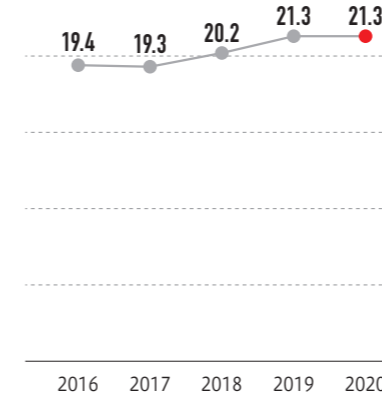


\* Nihon Nohyaku has changed its fiscal year end from September 30 to March 31. As a result, FY2020 is a transition period that covers the six month from October 1, 2019 to March 31, 2020.

## Non-financial Information\*1

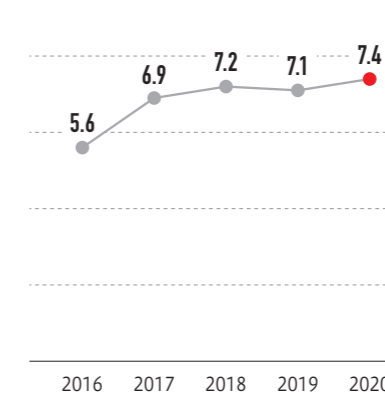
### Rate of female employees

(Nihon Nohyaku Co., Ltd)  
(%)



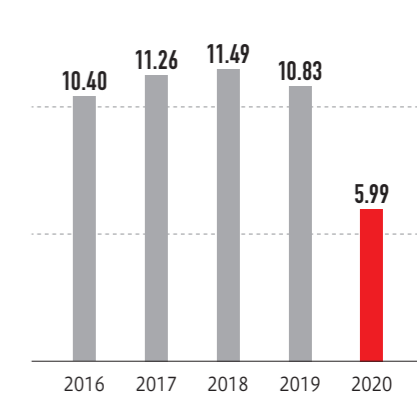
### Rate of female managers

(Nihon Nohyaku Co., Ltd)  
(%)



### Paid leave days used\*2

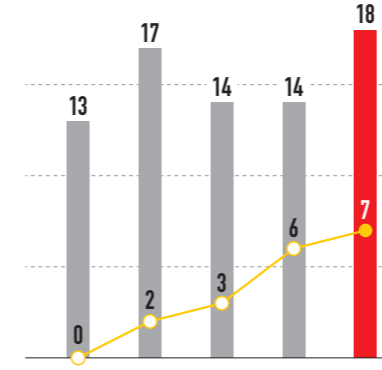
(Nihon Nohyaku Co., Ltd)  
(days)



### Number of male employees taking paternity leave\*3

(Nihon Nohyaku Co., Ltd)  
(persons)

■ Number of male employees eligible for paternity leave  
● Number of male employees taking paternity leave

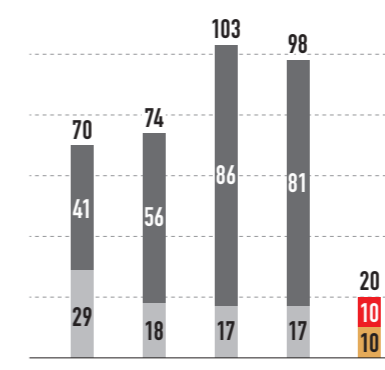


Female employee maternity leave usage rate was 100%

### Number of patent applications filed

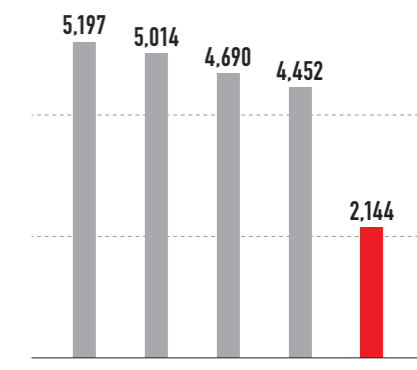
(Nihon Nohyaku Co., Ltd)  
(Number)

■ Patent applications filed in Japan  
■ Patent applications filed overseas\*4



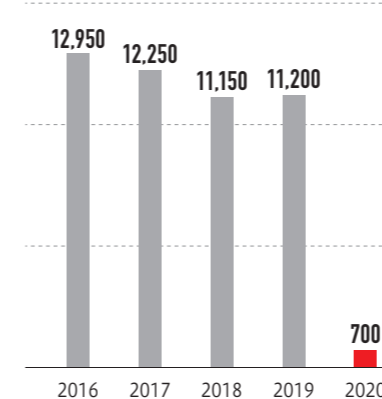
### R&D expenses

(Group consolidated)  
(million yen)



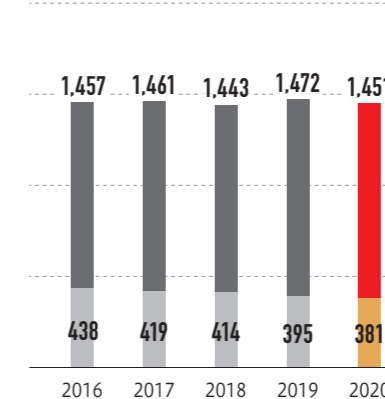
### Charitable donations

(Nihon Nohyaku Co., Ltd)  
(thousand yen)



### Number of employees

(人) ■ Nihon Nohyaku Co., Ltd  
■ The Nichino Group (consolidated)



\*1 Figures for FY2020 are those for the period from October 1, 2019 to March 31, 2020 due to the change of fiscal year end.

\*2 Applies to regular full-time and temporary full-time employees, and does not include contract employees.

\*3 Includes persons employed at that time who have since retired. Applies to full-time employees, and does not include contract employees.

\*4 Number of PCT international applications filed (by transfer country) + Paris route or Number of standard applications filed

# The Foundation for Supporting Responsible Care Activities



## What is Responsible Care (RC)?

RC encompasses voluntary activities wherein each company handling chemical substances secures “the environment, safety and health” and publishes the results of its activities, maintaining a dialogue and communication with society regarding all its processes, ranging from R&D through manufacturing, sales, logistics, use, and final consumption, to the disposal and recycling of the chemical substances. We have six fields of implementation for Responsible Care, namely “RC codes”, consists of “Environmental Protection”, “Occupational Safety and Health”, “Process Safety & Disaster Prevention”, “Logistics Safety”, “Product Stewardship (Chemical Materials and Product Safety)” and “Communication with Society” in Japan, we work to improve activities through the continued implementation of the PDCA (Plan→Do→Check→Act) cycle.

This is an initiative that the global chemical industry is integrally promoting to safely manage chemicals over their life cycles through its activities, such that products can contribute to improving the quality of life and sustainable development.



**Responsible Care®**  
OUR COMMITMENT TO SUSTAINABILITY

## RC Mid-Term Targets and Activity Results/Plans

### 1) About the Nichino Group RC Mid-Term Targets (FY2016-2020\*) Activity Results and Evaluation

RC Activities	RC Mid-Term Targets	Results	Evaluation*
General	<ol style="list-style-type: none"> <li>Maintain and expand Quality, Environment, and Occupational Safety &amp; Health Management Systems</li> <li>Enrichment and expansion of RC activities</li> <li>Education of RC to overseas sites, introduction of RC methods into plants which has not introduced ISO management system yet</li> </ol>	<ol style="list-style-type: none"> <li>Implemented ISO9001, ISO14001 and OHSAS18001. (Nichino Service) Put the Quality Management Panel and the Poisonous Material Management Panel under the control of the Production Division.</li> <li>Concluded an RC Promotion Agreement with AgriMart Conducted a survey on Group companies' operations in terms of SDGs Conducted educational activities for Group companies in Japan to raise their awareness of CSR and SDGs.</li> <li>Exchanged information with Indian subsidiaries and explain RC to overseas subsidiaries.</li> </ol>	☀️
Environmental Protection	<ol style="list-style-type: none"> <li>Reduction of 1% or more per year of energy consumption unit<sup>*2</sup> and reduction of CO<sub>2</sub> emissions by promoting energy saving</li> <li>Participation in Fun to Share<sup>*3</sup> activities of the Japanese Ministry of the Environment (JME)</li> <li>Maintain and expand zero emissions<sup>*4</sup></li> <li>Green purchasing rate of 95% or higher for office consumables and designated products</li> <li>Strengthening, maintain and expand green procurement standards for raw materials and ingredients</li> <li>Continuing initiatives for a low-carbon society (plan based on status of nuclear plants and government policy)</li> </ol>	<ol style="list-style-type: none"> <li>Efficiency of energy consumption unit (compared with March 2019) Nihon Nohyaku +3.4%, Nichino Service -4.0% Continued to evaluate the efficiency of energy consumption unit at Nichino Ryokka, Nihon EcoTech and AgriMart. CO<sub>2</sub> emissions (compared with 2013. The government aimed for a 26% reduction.) Nihon Nohyaku -0.8%, Nichino Service -34.5%</li> <li>Completed registration for all the domestic Group companies. The Nichino Group searched the declarations of the companies registered in the Fun to Share website, but found no example activity that could be introduced.</li> <li>The three Nichino Service plants maintained zero emissions.</li> <li>Green purchasing rate reached at 99.8% (121st fiscal year).</li> <li>Set a new standard of green procurement as 97% (121st fiscal year).</li> <li>Submitted annual reports to the Japan Federation of Economic Organizations once a year via the Japan Chemical Industry Association.</li> </ol>	☁️
Occupational Safety & Health, Process Safety & Disaster Prevention	<ol style="list-style-type: none"> <li>Achieving zero traffic accident during work/commuting, and maintaining zero accident causing lost worktime</li> <li>Maintaining zero serious accident on the production equipment</li> <li>Visualization of risk assessment methods</li> </ol>	<ol style="list-style-type: none"> <li>Traffic accidents: 74 cases at domestic Nichino Group companies (23 accidents in 2016, 16 accidents in 2017, 11 accidents in 2018, 17 accidents in 2019 and 7 accidents in the 121 fiscal year) 5 accidents with workdays lost and 27 accidents without workdays lost</li> <li>Maintained zero serious accidents (1 Minor accident<sup>*5</sup>)</li> <li>Shared visualization methods.</li> </ol>	☔️
Logistics Safety	<ol style="list-style-type: none"> <li>Continuing zero serious logistics accident (scattering/spillage)</li> <li>Enhancement of logistics conference with logistics companies</li> </ol>	<ol style="list-style-type: none"> <li>Maintained zero serious accidents</li> <li>Held logistics conferences with responsible departments of Nihon Nohyaku and Nichino Service.</li> </ol>	☀️

RC Activities	RC Mid-Term Targets	Results	Evaluation*
Product Stewardship (Chemical Materials & Product Safety)	<ol style="list-style-type: none"> <li>Develop environmental and safety-conscious products and field testing, considering environment preservation and worker safety</li> <li>Centralized management of safety information on chemical substances and appropriate provision to domestic and overseas subsidiaries</li> <li>Improvement of product quality and thorough management</li> </ol>	<ol style="list-style-type: none"> <li>Continued to develop new products that are safe and environmentally friendly. Documented new standards for agrochemical development in the overseas market. Conducted small-scale field test audits once a year.</li> <li>Promoted GHS<sup>*6</sup> implementation on SDS<sup>*7</sup>. Introduced and started operation of the automated SDS creation system.</li> <li>Continued management based on ISO9001 (Nichino Service) Started operation of a new processing flow for complaints. Launched the Production Technology &amp; Quality Liaison Committee. Conducted quality audits of subcontractors.</li> </ol>	☀️
Communicating with Society	<ol style="list-style-type: none"> <li>Creation of RC reports (in Japanese and English) on level with CSR reports and receiving third-party validation</li> <li>Establishment of comfortable environment around business sites interacting and cooperating with the local communities</li> <li>Participation in and promotion of activities for towards VISION 2025 of Japan Crop Protection Association (JCPA)<sup>*8</sup></li> </ol>	<ol style="list-style-type: none"> <li>Issued RC Report 2017, CSR Report 2018, CSR Report 2019 and CSR Report 2020 (Japanese versions and English versions). Received inspection of the Japan Chemical Industry Association for CSR Report 2018.</li> <li>Continued interaction at each offices with local governments, etc.</li> <li>Explained contributions and proper usage of agrochemicals.</li> </ol>	☀️

\*1 Internal evaluation of actual results: ☀️ Achieved ☁️ Partially not achieved ☔️ Not achieved  
 \*2 An index showing the efficiency of energy consumption that divides annual energy consumption by figures related to business (for example production amount, office surface area, sales volume, etc.). A lower energy consumption unit indicates better energy consumption efficiency.  
 \*3 National public movement to address global warming promoted by JME.  
 \*4 The final landfill amount of waste shall be 1% or less of the volume generated.  
 \*5 An accident that caused no body injury but required some expenses for restoration.  
 \*6 Safety Data Sheet  
 \*7 Globally Harmonized System of Classification and Labelling of Chemicals  
 \*8 The future vision and activities guidelines established by the Japan Crop Protection Association in 2014  
 \* FY2020 covers the period ended March 2020 (121st fiscal year) due to the change of fiscal year end.

### 2) About New RC Mid-Term Targets (April 2020-March 2025)\*

Responsible Care Code	Mid-Term Targets
General	<ol style="list-style-type: none"> <li>Promote RC activities keeping in mind the contribution of technological innovation on food, the environment, society, and SDGs and the importance of CSR.</li> <li>Expand the domestic subsidiary activity codes and start RC at overseas subsidiaries.</li> </ol>
Occupational Safety & Health, Process Safety & Disaster Prevention	<ol style="list-style-type: none"> <li>Achieve zero accident during work/commuting</li> <li>Maintain zero serious accident on facilities</li> <li>Ensure implementation of risk assessment</li> </ol>
Environmental Protection	<ol style="list-style-type: none"> <li>Promote energy conservation and CO<sub>2</sub> emission reductions                             <ul style="list-style-type: none"> <li>Energy conservation Reduce the 5-year average energy consumption unit by at least 1% (for specified Nichino Group companies and designated plants and research center defined under Act on the Rational Use of Energy in Japan)</li> <li>Promote consumption optimization (unspecified company)</li> </ul> </li> <li>CO<sub>2</sub> emissions (continue participation to an initiatives “The Commitment to a Low Carbon Society” by Japan Business Federation) Aim to achieve year-on-year reductions, a 4.9% reduction compared to 2013 for the entire Group by 2025, and zero emissions by 2050.</li> <li>Zero environmental accidents</li> <li>Reduce waste, achieve zero emissions, and work on the plastic resource recycling strategy. (Continue green purchasing and green procurement)</li> </ol>
Logistics Safety	<ol style="list-style-type: none"> <li>Achieve zero scattering and spillage accidents during logistics operations.</li> <li>Continue to hold logistics conferences with logistics companies.</li> <li>Maintain and advance modal shift.</li> </ol>
Product Stewardship (Chemical Materials & Product Safety)	<ol style="list-style-type: none"> <li>Promote product development and field testing taking into consideration the environment, health, and safety.</li> <li>Conduct global centralized management of safety information on chemical substances and share it within the Group.</li> <li>Improve product quality and conduct thorough management.</li> </ol>
Communication with Society	<ol style="list-style-type: none"> <li>Maintain good relationships with the government, industry groups, and the local communities.</li> <li>Participate in the creation of CSR reports that take into consideration the SDGs and receive third-party verification as appropriate.</li> </ol>

\*Formulated at the 35th meeting of the RC Promotion Committee.

## The Foundation for Supporting Responsible Care Activities

### 3) Main Activities for FY2020 (the 122nd Fiscal Year)

Responsible Care Code	Major topics
General	<ol style="list-style-type: none"> <li>1. Establish a CSR promotion system and formulate CSR policies.</li> <li>2. Promote activities in accordance with the new RC mid-term targets keeping in mind the new fiscal year.</li> </ol>
Occupational Safety & Health, Process Safety & Disaster Prevention	<ol style="list-style-type: none"> <li>1. Continue to conduct education and training to increase safety and risk awareness to achieve zero occupational accidents and zero traffic accidents while commuting.</li> <li>2. Conduct regular maintenance and inspections as well as training to keep zero serious accidents at production facilities.</li> <li>3. Conduct systematic risk assessments, SOP education and near misses and risk finding and safety indications at workplaces.</li> </ol>
Environmental Protection	<ol style="list-style-type: none"> <li>1. Promote energy conservation (Goal: reduction of energy consumption unit from the previous year and reduce the 5-year average by 1% or more), continue studying a calculation method for refining the consumption unit, continue the consumption efficiency evaluation in accordance with the situation, and continue activities to reduce CO<sub>2</sub> emissions.</li> <li>2. Maintain a green purchasing rate of 95% or higher and improve the green procurement rate.</li> <li>3. Promote 3Rs and reduce waste by maintaining and expanding zero emissions.</li> <li>4. Continue activities to achieve a low-carbon society (Locavore*)</li> </ol>
Logistics Safety	<ol style="list-style-type: none"> <li>1. Conduct training to maintain zero serious accidents in logistics (scattering and spillage).</li> <li>2. Continue to hold regular logistics conferences with transport and warehouse companies.</li> <li>3. Continue to provide yellow cards and white cards and strengthen collaboration to prevent problems.</li> <li>4. Continue to promote modal shift.</li> </ol>
Product Stewardship (Chemical Materials & Product Safety)	<ol style="list-style-type: none"> <li>1. Continue efforts to avoid using NPE and reducing PRTR inert ingredients in new products. Substitute 50% NPE substances in existing products.</li> <li>2. Continue appropriate management of chemical substances and conduct the necessary education and training.</li> <li>3. Conduct risk assessments and continue measures to prevent accidents due to chemical substances.</li> <li>4. Promote SDS information sharing within the Nichino Group. Start full operation of the automated SDS creation system.</li> <li>5. Continue to provide information on new regulations of chemical substances.</li> </ol>
Communication with Society	<ol style="list-style-type: none"> <li>1. Continue to participate in community activities, collaborate with local communities and improve the environmental conditions around facilities.</li> <li>2. Expand activities to overseas subsidiaries by providing RC information, etc.</li> <li>3. Promote exchange with stakeholders through issuance of CSR reports and provide information on the website.</li> <li>4. Continue activities toward the JCPA VISION 2025.</li> </ol>

※ A composite word with the term "Local" and the term "-vore (meaning an animal that eats something)" meaning "people who eat local food". It indicates an activity that leads to a reduction of CO<sub>2</sub> when combined with "local consumption of local products" and expanded consumption of "domestic agricultural and marine products".

## Occupational Safety & Health, Process Safety & Disaster Prevention



### 1) Number of accidents with and without workdays lost

Company name	FY2019		the 121st fiscal year	
	Accidents with Workdays Lost	Accidents without Workdays Lost	Accidents with Workdays Lost	Accidents without Workdays Lost
Nihon Nohyaku	0	5	0	1※
Nichino Service	1	1	1	0
Nichino Ryokka	0	0	0	0
Nihon EcoTech	0	0	0	0
AgriMart	0	0	0	0

\*An accident during commuting.

### 2) Severity rate of accidents with workdays lost and incident rate of accidents without workdays lost

	the 121st fiscal year
Severity rate of accidents with workdays lost* <sup>1</sup>	0.0022
Incident rate of accidents without workdays lost* <sup>2</sup>	0.023

\*<sup>1</sup> Severity rate of accidents with workdays lost = Total work days lost / Total actual working hours (per 1,000 hrs)

\*<sup>2</sup> Incident rate of accidents without workdays lost = Number of the victims of accidents without workdays lost / Total actual working hours (per 1,000,000 hrs)

### 3) Expenses for Safety & Health (Unit: million yen)

Vaccination and mental health related	0.8	(90%)
Industrial physician	7.2	(168%)
Medical examinations	6.7	(103%)

Figures in round brackets indicate comparisons with those for the same period of the previous year.

### 4) Record of Zero Occupational Accidents

Record of Zero Occupational Accidents (as of March 31, 2020)

Site	Total No. of Days	Total Hours (1,000 hours)
Nihon Nohyaku	Research Center	3,533 / 2,728
	Osaka Office*	1,339 / 515
Nichino Service	Fukushima Plant	2,255 / 1,668
	Kashima Plant	2,479 / 931
	Saga Plant	391 / 167

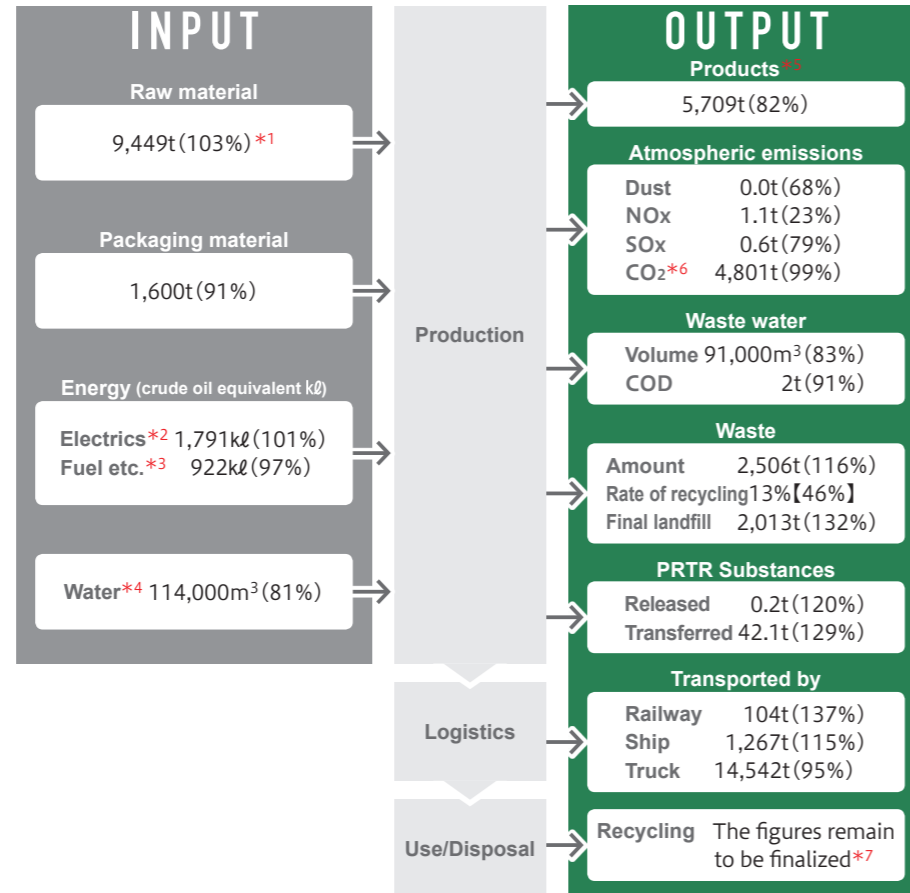
\* Includes figures for the Osaka Storage / Delivery Group of Nichino Service Saga Plant.

# Environmental Protection



## 1 Input of Resources and Energy and Output of Products and Environmental Load for the 121st fiscal year.

The following shows the amounts of raw materials, energy and water used in our business activities, along with the matters discharged in the process of production / products consumption and disposal.



\*1 The figures in round brackets indicate comparisons with the same period of the previous year in percentage terms. The figure in square brackets indicates the percentage for the same period of the previous year. The aggregation period for PRTR substances is from April 2019 to March 2020.  
 \*2 Purchased electricity calculated as crude oil equivalent.  
 \*3 Amount of heavy oil, light oil, kerosene, gasoline, city gas, LP gas, and purchased steam are expressed in crude oil equivalent.  
 \*4 Total sum of tap water, well water, and industrial water for Research Center, Osaka Office, and Nichino Service Plants.  
 \*5 Product amount = (technical grade production amount) + (formulation production amount) - (technical grade amount used for formulation production)  
 \*6 Used emission factors were referred to the Act on Promotion of Global Warming Countermeasures.  
 \*7 The amount consigned to the Japan Containers and Packaging Recycling Association, which is yet to be confirmed, is not presented. (It is expected to be confirmed around January 2021.)

## 2 Environmental Impact

### 1) Efficiency of Energy Consumption

Company name	the 121st fiscal year		FY2019 (April 2019 to March 2020)	
	Energy Consumption (year-on-year change)	Efficiency of Energy Consumption*	Energy Consumption (year-on-year change)	Efficiency of Energy Consumption*
Nihon Nohyaku	968.0kℓ (96.2%)	103.4%	2,111.0kℓ (100.4%)	104.3%
Nichino Service	1,745.9kℓ (99.7%)	96.0%	3,244.8kℓ (101.5%)	85.5%

\*Comparisons with the same period of the previous year.

### 2) CO<sub>2</sub> Emissions

Company name	the 121st fiscal year*	FY2019 (April 2019 to March 2020)*
Nihon Nohyaku	704.2t (99.5%)	3,294.9t (88.8%)
Nichino Service	1,386.7t (92.5%)	5,391.9t (95.1%)

\*The figures in round brackets indicate comparisons with the same period of the previous year.

## 3) PRTR Law\*1 Applicable Hazardous Substance Released\*2 and Transferred Amount\*3

(Aggregation period: April 2019 to March 2020)

Released and transferred amount: Top 10 substances by amount

Released amount			
Rank	Substance name	(kg)	
Current Y	Previous Y		
1	1	n - Hexane	66.0
2	2	Triethylamine	25.0
3	3	Xylene	15.6
4	4	1,2-Dichloroethane	13.0
5	5	Ethylbenzene	11.1
6	6	Buprofezin*4	10.0
7	7	Isoprothiolane*4	6.2
8	8	Hydrazine	4.5
9	9	Flutolanil*4	2.7
10	10	Benzyl chloride	2.0
		Other	6.7
		Total	162.8

Transferred amount			
Rank	Substance name	(t)	
Current Y	Previous Y		
1	2	Chlorobenzene	27.1
2	1	Xylene	3.1
3	3	n - Hexane	2.9
4	4	Ethylbenzene	2.4
5	6	Oxine-copper*4	1.8
6	18	Carbaryl*4	1.0
7	10	Flutolanil*4	0.8
8	8	Phenmedipham*4	0.5
9	11	Poly (oxyethylene) = alkyl ether (Number of carbon atoms in the alkyl group are limited to 15 from 12)	0.4
10	49	Propargite*4	0.3
		Other	1.9
		Total	42.1

\*1 PRTR is an abbreviation of Pollutant Release and Transfer Register, defined under the Act on Confirmation, etc., of Release Amounts of Specific Chemical Substances into the Environment and Promotion of Improvements to the Management Thereof.  
 \*2 Release to atmosphere, public waters, soil, and landfill.  
 \*3 The amount of substances including those transferred to sewer works and for which disposal was consigned to a waste disposal contractor (excluding the amount shipped as commercial products).  
 \*4 Active ingredients of Agrochemicals

## 3 Environmental Accounting

### 1) Environmental Protection Costs

Environmental Protection Costs (Unit: million yen) *2				
	Classification	Details of major initiatives	Investments	Expenses*1
1. Costs within business area	(1) Pollution prevention	Prevention of air pollution, water pollutant, bad odor	2	25 (+3)
	(2) Global environmental protection	Prevent global warming by energy conservation	5 (+4)	13 (+11)
	(3) Resource recycling	Industrial waste, general waste disposal	11	82 (+10)
2. Upstream/Downstream		Cost of switching to environmental conservation type raw materials	0 (-1)	1
3. Management activity		Research Center, office neighborhood greenification, environmental load monitoring	0	0
4. R&D costs		R&D for products contributing to environment protection	52 (+21)	239
5. Social activity costs		Donations/support for organizations involved in environmental protection	0	0
6. Environment damage response costs		Pollutant recovery costs	0	0
Total			70 (+24)	361 (+24)

\*1 Expense amounts: Maintenance and management expenses for facilities used for environmental measures as well as personnel and other expenses related to other environmental measures (including depreciation).  
 \*2 ( ) indicates change from previous fiscal year, no figures indicated if unchanged.

### 2) Environmental Protection Effect: Improvement Achieved through Investments and Expenditures for Environmental Protection

Effect item	Details	Item (unit)	YoY change	Change (%)
Pollution prevention	Air/water pollutant emissions	Dust (t)	-0.0	-32
		NOx (t)	-3.5	-77
		SOx (t)	-0.2	-21
		COD (t)	-0.1	-9
Global environmental protection	Greenhouse effect gas emissions	CO <sub>2</sub> (t)	-68	-1
		Energy (crude oil equivalent) (kℓ)	-13	-0
Resource recycling	Energy/water usage rates	Water (1,000m <sup>3</sup> )	-27	-19
		Waste	Amount (t)	+342
		Final landfill amount (t)	+489	+32

**Environmental Protection**

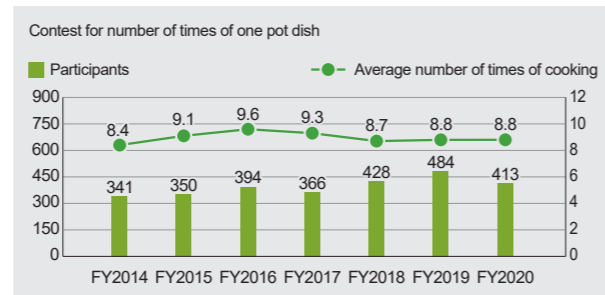
## 4 Green Purchasing and Green Procurement

Green purchasing rate	99.8%
Green procurement rate	97% (+1pt)*

\*The figure in round brackets indicate the change from the same period the previous year.

## 5 Efforts towards Creating a Low-Carbon Society: Promoting Locavore

As part of "Locavore", its original social contribution activity, the Nichino Group holds a contest in the winter (December through February) to see who makes a one pot dish (nabe) most often. By focusing on one pot dish cuisine, which contributes to consumption of agricultural and marine produce with a high rate of domestic self-sufficiency, the contest is aimed at reducing CO2 emissions related to food transport through reducing food mileage (the distance food is transported) by promoting what can be done at home.



## Logistics Safety, Product Stewardship (Chemical Materials & Products Safety)



### Promotion of Modal Shift

	the 121st fiscal year*	FY2019 (April 2019 to March 2020)*
Transport amount	15,913,000t · km (96%)	11,956,000t · km (96%)
Modal shift rate	9% (+2pt)	7% (+1pt)
CO2 emissions associated with logistics	1,057t (105%)	2,030t (96%)

Figures in round brackets indicate comparisons with those for the same period of the previous year.

## Communication with Society



### Acceptance of visitors for factory tours and laboratory tours

Number of visitors	751 (-43%)*
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Figures in round brackets indicate comparisons with those for the same period of the previous year.

## Information and Topics of Each Facility

Number of employees for Research Center and each plant includes non-full-time employees.

### Research Center

**General Manager:** Tetsuyoshi Nishimatsu  
(appointed in June 2020)

**Address:**  
345, Oyamada-cho,  
Kawachinagano-shi, Osaka

**Number of employees:**  
240

**Land area:**  
approx. 71,000 m<sup>2</sup>

**Floor surface area:**  
approx. 16,000 m<sup>2</sup>



#### Research Center environmental data

Items	Content (unit)	First half of FY2019	the 121st fiscal year
Energy	Crude oil equivalent (kℓ)	902.8	895.7
	Water (1,000m <sup>3</sup> )	8.8	11.4
	SOx (t)	0.4	0.3
Atmospheric emissions	NOx (t)	0.0	0.0
	Dust (t)	0.0	0.0
	CO <sub>2</sub> (t)	1,596.6	1,584.9
Waste	Amount (t)	34	38
	Final landfill (t)	30	35
Waste water	Volume (1,000m <sup>3</sup> )	6.6	6.7
	COD (t)	0.0	0.0

### Osaka Office

**General Manager:** Hirohisa Yano  
(appointed in June 2020)

**Address:** 2-30, Tsukuda 5-Chome,  
Nishiyodogawa-ku, Osaka

**Number of employees:**  
15 (including the members belonging to the departments of Nihon Nohyaku and Nichino Service stationed at the office.)

**Land area:** approx. 30,000 m<sup>2</sup>

**Floor surface area:** approx. 9,000 m<sup>2</sup>

#### Osaka Office environmental data\*1

Items	Content (unit)	First half of FY2019	the 121st fiscal year
Energy	Crude oil equivalent (kℓ)	23.3	21.3
	Water (1,000m <sup>3</sup> )	0.8	0.4
	SOx (t)	0	0
Atmospheric emissions	NOx (t)	0	0
	Dust (t)	0	0
	CO <sub>2</sub> (t)	6.1	35.1
Waste	Amount (t)	557.2	53.7
	Final landfill (t)	419.9	1.1
Waste water	Volume (1,000m <sup>3</sup> )	0	0
	COD (t)	0	0

\*1 Includes volume used by the departments of Nihon Nohyaku and Nichino Service stationed at the office.

\*2 All the wastewater from the Osaka Office was treated as industrial waste.

## Nichino Service Co., Ltd. Kashima Plant

**General Manager:** Shigeyuki Sakao

**Address:**  
19, Sunayama,  
Kamisu-shi, Ibaraki  
**Number of employees:**  
46  
**Land area:**  
approx. 45,000 m<sup>2</sup>



### Nichino Service Kashima Plant environmental data\*1

Items	Content (unit)	First half of FY2019	the 121st fiscal year
Products	Technical grades / bulk powder (t)	864	1,028
	Crude oil equivalent (kℓ)	1,462.8	982.7
Energy	Water (1,000m <sup>3</sup> )	121.1	91.9
	SOx (t)	0.1	—*2
Atmospheric emissions	NOx (t)	3.7	—*2
	Dust (t)	0.0	—*2
	CO <sub>2</sub> (t)	1,462.8	1241.1
Waste	Amount (t)	1,054.5	1,970.5
	Final landfill (t)	1,020.3	1,908.0
Waste water	Volume (1,000m <sup>3</sup> )	97.4	78.2
	COD (t)	1.6	1.4

\*1 Includes volume used by the departments of Nihon Nohyaku stationed at the plant.  
\*2 Not measured in the fiscal year under review.

## Nichino Service Co., Ltd. Fukushima Plant

**General Manager:** Hideki Utaka  
(appointed in June 2020)

**Address:**  
286, Hiraishitakada 4-Chome,  
Nihonmatsu-shi, Fukushima  
**Number of employees:**  
99  
**Land area:**  
approx. 119,000 m<sup>2</sup>



### Nichino Service Fukushima Plant environmental data

Items	Content (unit)	First half of FY2019	the 121st fiscal year
Products	Agrochemicals (t)	3,406	2,824
	Crude oil equivalent (kℓ)	301.4	288.9
Energy	Water (1,000m <sup>3</sup> )	4.6	4.0
	SOx (t)	0.6	0.5
Atmospheric emissions	NOx (t)	0.1	0.1
	Dust (t)	0.0	0.0
	CO <sub>2</sub> (t)	652.4	527.1
Waste	Amount (t)	252.7	291.9
	Final landfill (t)	52.8	68.8
Waste water	Volume (1,000m <sup>3</sup> )	3.5	3.4
	COD (t)	0.0	0.0

## Nichino Service Co., Ltd. Saga Plant

**General Manager:** Toru Oouchi  
(appointed in June 2020)

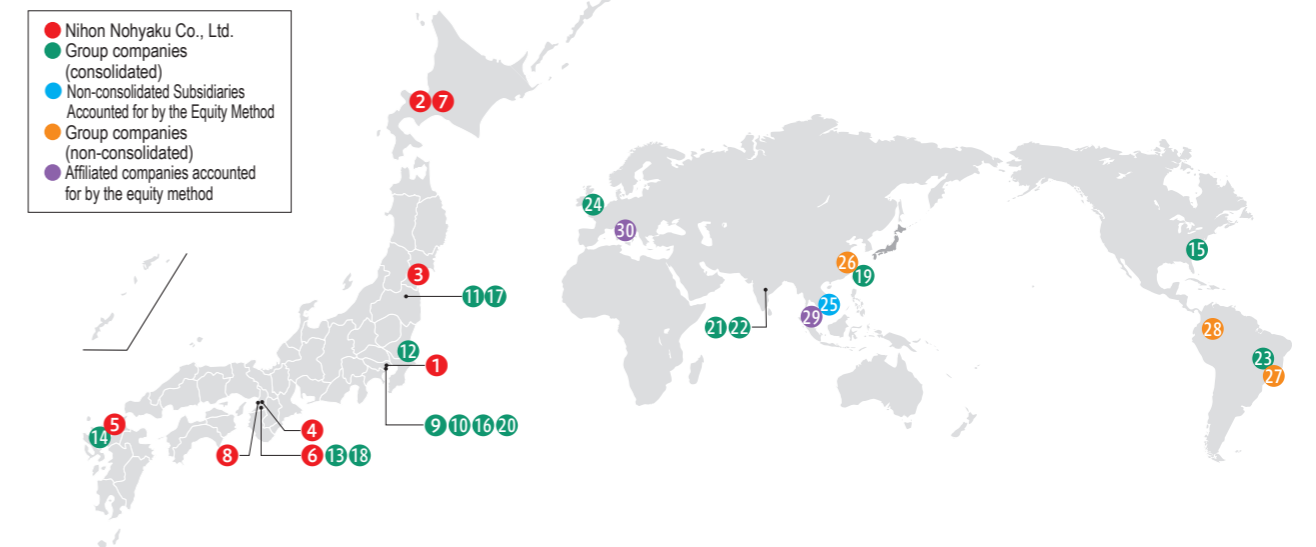
**Address:** 180-1, Aza Nihonsugi, Oaza Tsutsumi,  
Kamimine-cho, Miyaki-gun, Saga  
**Number of employees:**  
90 (excluding the members of  
the Osaka Storage/Delivery  
Group)  
**Land area:** approx. 84,000 m<sup>2</sup>



### Nichino Service Saga Plant environmental data

Items	Content (unit)	First half of FY2019	the 121st fiscal year
Products	Agrochemicals (t)	2.3	2.3
	Crude oil equivalent (kℓ)	545.3	478.8
Energy	Water (1,000m <sup>3</sup> )	5.9	6.2
	SOx (t)	0.1	0.1
Atmospheric emissions	NOx (t)	0.4	0.6
	Dust (t)	0.0	0.0
	CO <sub>2</sub> (t)	1,030.2	901.3
Waste	Amount (t)	265.6	151.4
	Final landfill (t)	0	0
Waste water	Volume (1,000m <sup>3</sup> )	2.3	2.3
	COD (t)	0.0	0.0

# Company Overview and List of The Nihon Nohyaku Group Companies



## Nihon Nohyaku Co., Ltd.

<b>Head Office address</b>	19-8 Kyobashi 1-Chome, Chuo-ku, Tokyo 104-8386
<b>Founded</b>	November 17, 1928
<b>Capital</b>	14,939 million yen
<b>Number of employees (consolidated)</b>	1,451
<b>Main business</b>	Manufacturing, import, export, and sales of agrochemicals, pharmaceuticals, quasi drugs, veterinary products, wood preservative agents, agricultural materials, and more

<b>Head office and branches</b>	<ul style="list-style-type: none"> <li>① Head office, Tokyo Branch (Chuo-ku, Tokyo)</li> <li>② Sapporo Branch (Sapporo-shi, Hokkaido)</li> <li>③ Sendai Branch (Sendai-shi, Miyagi)</li> <li>④ Osaka Branch, Tokai-Hokuriku Sales Office (Osaka-shi, Osaka)</li> <li>⑤ Fukuoka Branch (Fukuoka-shi, Fukuoka)</li> <li>⑧ Osaka Office (Osaka-shi, Osaka)</li> </ul>
<b>Research Facilities</b>	<ul style="list-style-type: none"> <li>⑥ Research Center (Kawachinagano-shi, Osaka)</li> <li>⑦ Naganuma Nursery (Yubari-gun, Hokkaido)</li> </ul>
<b>Manufacturing plant (contracted)</b>	<ul style="list-style-type: none"> <li>⑩ Nichino Service Co., Ltd.</li> <li>⑪ Fukushima Plant / ⑫ Kashima Plant / ⑬ Saga Plant</li> </ul>

## Consolidated Group Companies

⑨ Nichino Ryokka Co., Ltd.	Sales of chemicals/pesticides for golf courses, home & garden, and greenification, sales of turf and turf-related materials, planning and construction of gardens and amenity areas	Chuo-ku, Tokyo
⑩ Nichino Service Co., Ltd.	Manufacturing and sales of agrochemicals, contracted manufacturing, storage, and transport of agrochemicals, cultivation and management of fields, real estate management	Chuo-ku, Tokyo Nihonmatsu-shi, Fukushima Kamisu-shi, Ibaraki Kawachinagano-shi, Osaka Miyaki-gun, Saga
⑪ Fukushima Plant		
⑫ Kashima Plant		
⑬ Kawachinagano Center		
⑭ Saga Plant		
⑮ Nichino America, Inc.	Agrochemical sales, promotion, development, and registration in the USA	U.S.A. / Wilmington
⑯ Nihon Ecotech Co., Ltd.	Agrochemical residue analysis, chemical substance safety testing, and related activities	Chuo-ku, Tokyo Nihonmatsu-shi, Fukushima Kawachinagano-shi, Osaka
⑰ Fukushima Analysis Center		
⑱ Osaka Analysis Center		
⑲ Taiwan Nihon Nohyaku Co., Ltd.	Agrochemical sales and promotion in Taiwan	Taiwan/Taipei
⑳ AgriMart Corporation	Sales of termite control agents/devices, pest control agents/devices	Chuo-ku, Tokyo
㉑ Nichino India Pvt. Ltd.	Agrochemical sales, manufacturing, development, promotion, import and export in India	India / Hyderabad
㉒ Nichino Chemical India Pvt. Ltd.	Agrochemical sales and manufacturing in India	India / Hyderabad
㉓ Sipcam Nichino Brasil S.A.	Agrochemical sales and manufacturing in Brazil	Brazil / Uberaba
㉔ Nichino Europe Co., Ltd.	Agrochemical sales, promotion, development, and registration in Europe	UK / Cambridge

## Non-consolidated Subsidiaries Accounted for by the Equity Method

㉕ Nichino Vietnam Co., Ltd.	Agrochemical sales, development, promotion, import and export in Vietnam	Vietnam / Ho Chi Minh
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## Non-consolidated Companies

㉖ Nichino Shanghai Co., Ltd.	Agrochemical sales and promotion in China	China/ Shanghai
㉗ Nichino do Brasil Agroquímicos Ltda.	Agrochemical development and registration in Brazil	Brazil / Sao Paulo
㉘ Nihon Nohyaku Andica S.A.S.	Agrochemical sales, development, promotion, import and export in the Andes and Central America	Colombia / Bogota

## Affiliated Companies Accounted for by the Equity Method

㉙ Agricultural Chemicals (Malaysia) Sdn.Bhd.	Agrochemical sales and manufacturing in Malaysia	Malaysia / Penang
㉚ Sipcam Europe S.p.A.	Agrochemical sales and manufacturing in Europe	Italy / Milan





**NIHON NOHYAKU CO., LTD.**

**Head Office**

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19-8, Kyobashi 1-Chome  
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**TEL**

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+81-3-6361-1400

**Website**

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<https://www.nichino.co.jp/en/>



We practice Green Purchasing.



Nihon Nohyaku received a Development Bank of Japan loan based on the DBJ Environmentally Rated Loan Program, and has been rated as "a company with advanced environmental initiatives".