DNP

DNP Group Environmental Report 2016

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Editorial Policy

- The DNP Group Environmental Report 2016 was created to announce all of the environmental activities of the DNP Group, and is based on the Environmental Reporting Guidelines (2012 edition) issued by Japan's Ministry of the Environment.
- The DNP Group Environmental Report 2016 is published in a page format designed to be easy to read on the Web.
- We have interspersed columns throughout, covering specific topics.
- The information in this report was subjected to a third-party-review conducted by Bureau Veritas Japan. A check mark ☑ indicates indices that have undergone third-party audits.

Period covered by this report
This report focuses on activities carried out in the period of April 1, 2015 to March 31, 2016. It may also include reporting on important items not occuring within this period. The report also covers activities carried out at some overseas business locations in the period of January 1, 2015 to December 31, 2015.

Scope of environmental data
Environmental accounting was applied to DNP and to all domestic companies in the Group that are subject to consolidated financial accounting. Twenty-six domestic manufacturing companies plus one distribution company (see pp. 41, 42), the non-manufacturing sites (three development centers, office buildings, sales offices, etc.) of all domestic Group companies, and our overseas manufacturing companies (see p. 43) were included in the scope.

Standards for Calculating Environmental Performance Indices
The standards used for calculating environmental performance indices are published separately on the Web.
http://www.dnp.co.jp/csr/index02.html

CONTENTS

Message from the Director in Charge of the Environment

Going Beyond Society's Expectations

Chairman of the CSR-Environment Committee

Satoru Inoue

Protecting the environment and bringing sustainability to society are part of the Code of Conduct of the DNP Group. Harmonious coexistence with the environment is a constant consideration as we carry out sustainable business practices. The DNP Group has been working to reduce environmental impact in all processes from the procurement and use of raw materials to their disposal. We shall do everything to meet the trust in our relationships with diverse stakeholders. This year's Environmental Report presents the results of our initiatives and efforts throughout the past fiscal year. The report is edited according to the Environmental Reporting Guidelines (2012 edition) issued by Japan's Ministry of the Environment and aims to be exhaustive and provide continuity. The information in this report was subjected to a third-party review conducted by Bureau Veritas Japan, assuring that important environmental data was measured and calculated accurately.

Efforts in Fiscal 2015

Environmental targets for fiscal 2015 and a record of actions taken are presented in this report. The DNP Group has set and achieved its 2015 global targets for reducing the total amount of its greenhouse gas emissions; this year we also worked through energy conservation subcommittees to promote group-wide energy-saving measures. In conjunction with these efforts we are implementing action across our entire supply chain, including at our key overseas bases, to calculate and reduce greenhouse gas emissions. In Japan we have reached and significantly exceeded our domestic fiscal 2015 target values for reducing atmospheric emissions of volatile organic compounds (VOCs). Outside of Japan, we began operating a VOC recovery system at our plant in Karawang, Indonesia. With regard to lowering industrial waste, we achieved our 2015 global targets for emissions reductions, and have been maintaining zero emissions domestically since fiscal 2013, achieving a less than 0.5% landfill rate. In addition, we met 2015 sales targets for environmentally conscious products and services aimed at conserving resources and energy and promoting recycling.

With regard to protecting biodiversity, the DNP Group has focused on two key areas that are closely tied to our business activities: the procurement of raw materials and creating green areas on the premises of our business sites. Paper is a key raw material for the DNP Group and in 2012 we set Guidelines for Procurement of Paper for Printing and Converting and we are aiming to achieve a 100% rate of compliance with these guidelines. We are strengthening cooperation with our suppliers to promote the effective utilization of forest resources that have been confirmed as being lawfully harvested, and are working to guarantee traceability. In the creation of green spaces at business sites as natural habitats for wildlife and to protect rare and endangered species, we have carried out activities with employee participation in 31 locations. In fiscal 2015 we also began an environmental initiative together with the Toshiba Group that is taking place at 12 business sites in six locations around Japan.

Future efforts

Two historic international agreements were adopted in 2015—Sustainable Development Goals (SDGs) and the Paris Accord. Enterprises are further being called on to take control of their entire supply chain from a global perspective, institute measures to prevent global warming, and take action to promote sustainability in resource procurement, manufacturing, and consumption. Such times bring risk but also opportunity. The DNP Group has set targets for fiscal 2020 to step up the environmental actions taken to date, and we will do our best to meet those targets by working together. We also plan to communicate closely with our stakeholders to build deeper trust and meet our ideals, becoming a corporation that is consistently worthy of society's high confidence in it.

Outline of the DNP Group

DNP Corporate Profile (as of March 31, 2016)

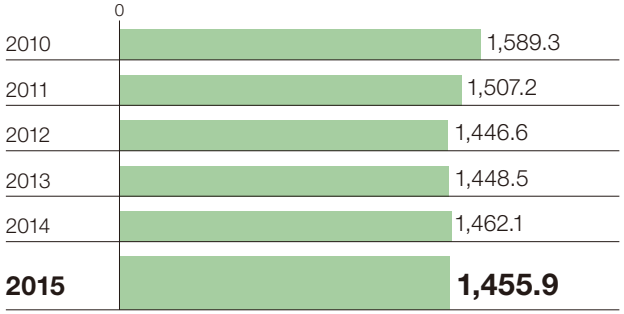
Company Name Dai Nippon Printing Co., Ltd.

Head Office 1-1, Ichigaya Kagacho, 1-chome, Shinjuku-ku, Tokyo, 162-8001, Japan
Tel: +81-3-3266-2111 (general information)
URL http://www.dnp.co.jp/

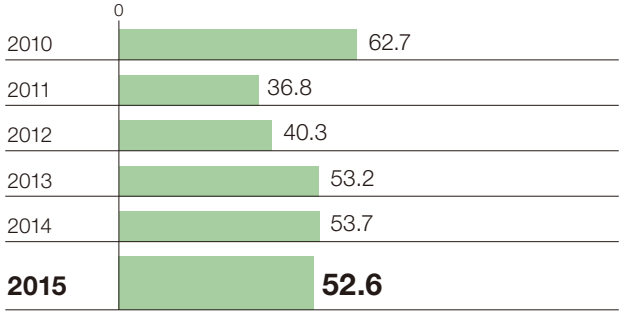
Established October 1876
Incorporated January 1894
Paid in Capital ¥114.464 billion
Number of Employees 10,676 (Non-consolidated)
39,198 (Consolidated)
Sales Offices 40 locations in Japan
25 locations overseas (including local affiliates)
Main Plants 56 domestic plants
14 overseas plants (including local affiliates)
R&D Facilities 3 locations in Japan

FY2015 Financial Data (FY ending March 2016)

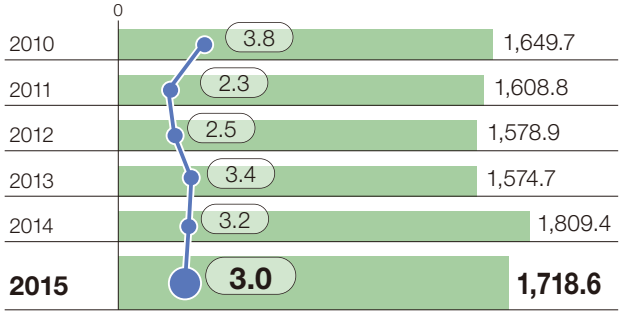
Net sales (Yen billions)



Net ordinary income (Yen billions)

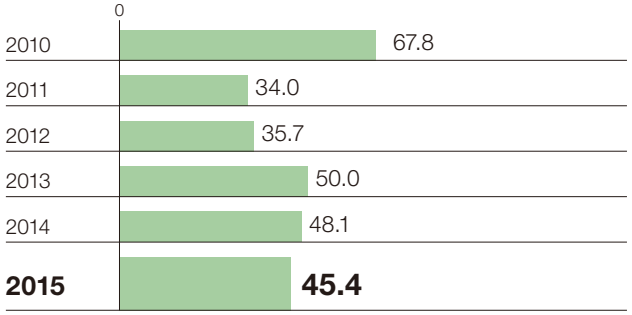


Total assets (Yen billions) Bar graph / **ROA** (%) Line graph

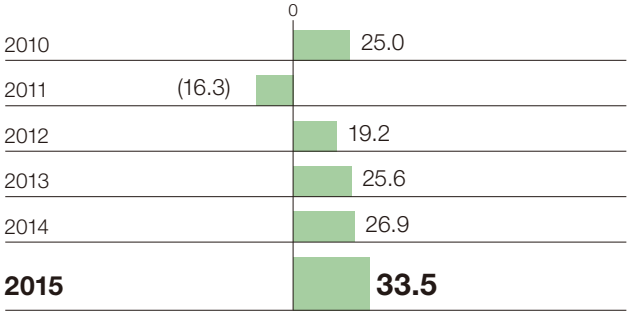


ROA (Return On Assets): Calculated using ordinary income.

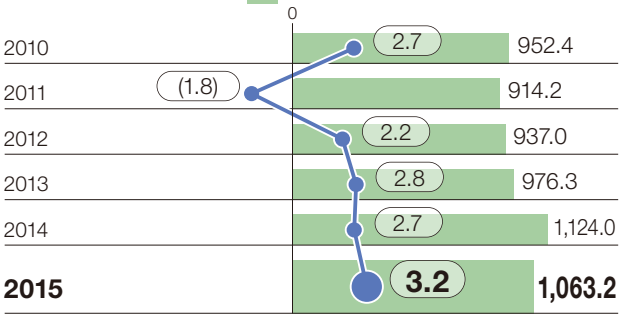
Net operating (Yen billions)



Net income (net loss) (Yen billions)



Net assets (Yen billions) Bar graph / **ROA** (%) Line graph



ROE (Return On Equity): Calculated using net income.

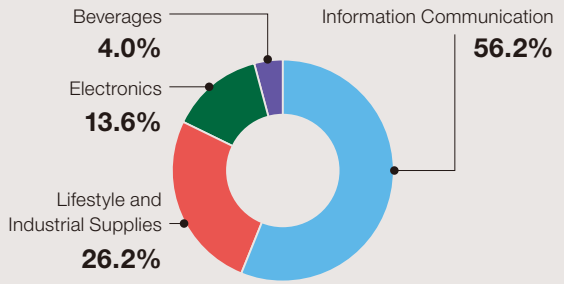
The DNP Group's Fields of Business

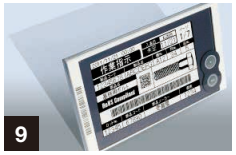
The business of the DNP Group is made up of our Printing Operations and Beverages Operations.

Printing: We are developing our printing business across a broad range of applications. These include the Information Communication segment, made up of operations such as publishing/commercial printing, smart cards, and network businesses; the Lifestyle and Industrial Supplies segment, which includes packaging, lifestyle materials, and industrial supplies; and the Electronics segment, which includes display products and electronics devices.

Beverages: We produce and market carbonated beverages, coffee, tea, and other beverage products, mainly through Hokkaido Coca-Cola Bottling.

Sales distribution (FY ending March 2016)



Printing	**Information Communication** Books and magazines, commercial printing, smart cards, network businesses, etc.	1  2  3 
	Lifestyle and Industrial Supplies Packaging, lifestyle materials, industrial supplies, etc.	4  5  6  7 
	Electronics Display components, electronic devices, optical film, etc.	8  9 
Beverages	**Beverages**	10 

1 Magazines, books

2 Direct mail

3 Photobooks, dye-sublimation transfer media

4 Packaging

5 PET bottles and preforms (left of photo)

6 Aseptic filling systems for PET bottles

7 Automotive interior materials

8 Screens for projectors

9 Electronic paper systems

10 Soft drinks

DNP Group Vision 2015

The DNP Group Vision 2015 consists of our Corporate Philosophy, Business Vision, and Guiding Principles, and is an expression of our basic philosophy of co-existence and co-development with society and the environment.

Our Corporate Philosophy is the DNP Group's social mission, and is an expression of the most important value held by all DNP employees. Our Business Vision and Guiding Principles provide direction for the business and employee conduct that will enable us to make our Corporate Philosophy a reality.

The DNP Group Code of Conduct establishes the behavioral standards for all activities undertaken in realizing our Corporate Philosophy. The Code is intended to ensure that all employees conduct themselves with integrity at all times.

Corporate Philosophy

The DNP Group connects individuals and society, and provides new value.

The DNP Group
provides society with what individuals need,
provides individuals with what society needs.

Business Vision

Use P&I Innovations to expand business, primarily around four growth areas.

P&I Innovations

"P&I Innovation" refers to the creation of new value—value that never existed before—by combining printing (P) and information (I) as DNP's strengths along with diversified partners.

DNP's Four Growth Areas

- Knowledge and Communication: Supporting people's lifestyles and fostering culture within an advanced information society by conveying valuable information reliably, safely, and in optimal formats
- Food and Healthcare: Supporting safer and higher-quality living and lifelong health maintenance amid changing population dynamics, including the increasing aging of society.
- Lifestyle and Mobility: Aiming to achieve greater comfort in response to increasing desire for personal space as a result of consumers' diversifying values.
- Environment and Energy: Aiming to make environmentally friendly society a reality in order to simultaneously achieve economic growth and environmental preservation.

DNP Group Guiding Principles

Taiwa (dialog) and Cooperation

Each member of DNP becomes a professional in his or her field. Actively and repeatedly engaging in *Taiwa* and working together with people both inside and outside the company leads to the generation of original products and services that never existed in the past.

DNP Group Code of Conduct

The DNP Group has established the DNP Group Code of Conduct as the set of principles upon which our efforts toward realizing our Management Concept are based. The Code of Conduct is founded upon strong ethical principles in accordance with our own rules as well as the law of the land, and is built around themes we consider to be of mutual importance to both the DNP Group and society as a whole.

The conduct of business with integrity at all times in accordance with this Code of Conduct is the foundation of our CSR activities.

1. Contributing to the development of society	We shall contribute to the development of society by offering new values through our business.
2. Social contribution as a good corporate citizen	We, as good corporate citizens living in harmony with society, shall deepen our ties with society and make social contributions through our solutions to various social issues and through our cultural activities.
3. Compliance with the law and social ethics	We shall contribute to the sustainable development of free and orderly market competition while assuming a fair and honest attitude at all times, in compliance with the law and social ethics.
4. Respect for human dignity and diversity	The dignity of humanity is of supreme importance to us. We shall respect diversity in the culture, nationality, creed, race, ethnicity, language, religion, gender, age, and ways of thinking of all persons, and conduct ourselves in a disciplined manner.
5. Environmental conservation and the realization of a sustainable society	We are contributing to building a sustainable society so as to pass on the rich blessings of the Earth to future generations.
6. Realization of a 'universal society'	We shall work on the development and diffusion of easy-to-use functional products, services and systems so that everyone can live in safety and comfort, and thus contribute to the realization of a "universal society" in which all kinds of people can lead pleasant lives.
7. Ensuring the safety and quality of our products and services	We shall strive to win over the satisfaction and trust of consumers in general and of our corporate clients by ensuring the safety and quality of our products and services.
8. Ensuring information security	We shall strive to ensure thorough security measures to protect information assets entrusted to us by our clients as well as those retained by the DNP Group itself (industrial secrets, personal information, intellectual property, etc.).
9. Proper disclosure of information	We shall take the initiative to disclose information in a timely and appropriate manner so as to have our own business and activities properly understood by our various stakeholders with the goal of maintaining a high degree of transparency.
10. Realization of a safe and vibrant workplace	We shall exert ourselves for the maintenance and improvement of the safe and hygienic conditions of our workplace and shall always endeavor to seek ways to implement new improvements. At the same time, we shall respect working styles suited to the diversity of our employees and make efforts to create a safe, healthy and vibrant working environment.

DNP Group Environmental Policy

Rapid economic progress and a rising global population are bound to continue through the twenty-first century, so we must do what we can to protect biodiversity and prevent further degradation of the environment. Different groups and organizations work to protect the global environment in different ways; we all must do what we can to pass on a healthy planet to future generations.

We follow the DNP Group Code of Conduct, which guides us toward environmental conservation and the realization of a sustainable society. The DNP Group Environmental Policy links this code to specific activities that take the environment into consideration within the scope of our various business activities.

The DNP Group seeks to minimize the impact our businesses have on the environment and supports biodiversity, first by complying with environmental laws and regulations and also by recognizing the relationship that each of our business activities has with the environment. In this way we hope to create a sustainable society in a world with limited resources.

1. Each member of the DNP Group establishes and periodically reviews its own environmental policies and environmental targets, and puts into effect continuous improvement of its activities and the prevention of environmental pollution.
2. For all construction projects, and before designing and commissioning new facilities, we carry out a full and detailed environmental survey to assess the impact that the project will have on the environment to make proper efforts to protect the environment. We shall also make aggressive efforts to use renewable energy.
3. When carrying out research, development, design, manufacture, and sales of a new product, we consider the impact of the product on the environment throughout its lifecycle, including materials procurement, production, distribution, use, and disposal, especially in terms of energy conservation, resource conservation, and reducing the use of harmful chemicals.
4. When purchasing raw materials, stationery, and equipment, we choose items that are ecologically-friendly and easy to recycle.
5. In manufacturing a product, we aim to comply with environmental laws and regulations, and moreover we set up more stringent standards to reduce the emissions of pollutants into the air, watershed, and soil, and to prevent unpleasant odors, noise, vibration, and land subsidence. We are constantly improving facilities, techniques, and manufacturing processes to promote the targets of energy conservation, resource conservation, and the reduction of industrial waste.
6. When generating waste from business operations, we strive to achieve zero emissions by separating and recycling waste as much as possible.

CSR-Environment Committee (March 21, 2000, revised March 16, 2010)

The DNP Group is a signatory of the United Nations Global Compact and a “promotion partner” of the Nippon Keidanren’s 2009 Declaration on Biodiversity.

Environmental Management Structure

All companies in the DNP Group are striving to build an environmentally sustainable world through the efficient use of resources and various efforts—to prevent global warming, protect the environment, and preserve biodiversity.

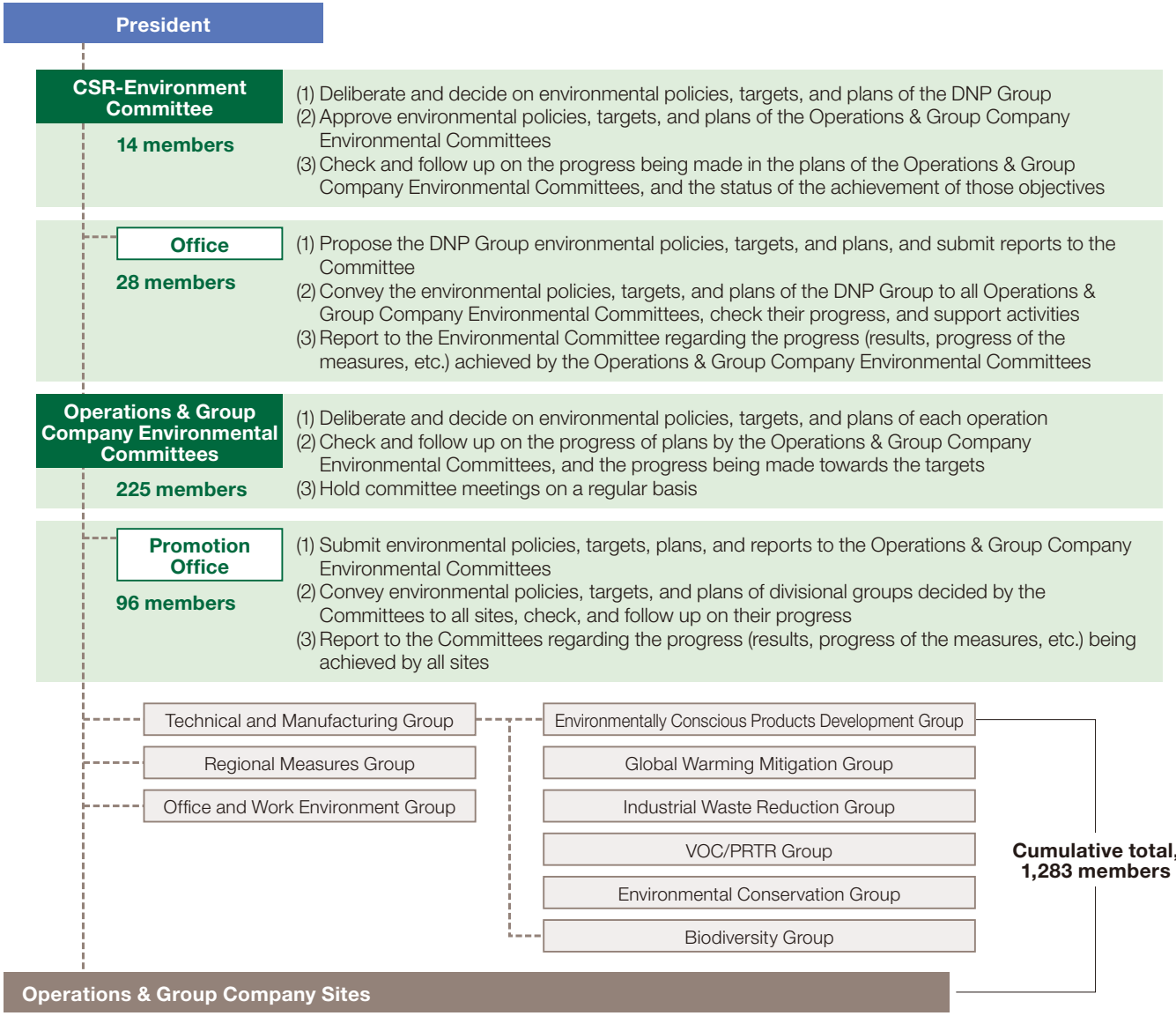
The CSR-Environment Committee was established to coordinate group-wide environmental activities, while Operations & Group Company Environmental Committees preside over domestic and overseas activities within each business area. Each committee has its own office or promotion office.

• CSR-Environment Committee

This is made up of the directors of the basic organizations at company headquarters, who are responsible for the environment. The Committee deliberates and makes decisions concerning the environmental policies, objectives, and plans of the entire Group, and monitors the progress of the plans and the status of the achievement of those objectives.

• Operations & Group Company Environmental Committees

We carry out such activities based on decisions made by the CSR-Environment Committee and the characteristics of different business areas, including activities at our locations outside of Japan.



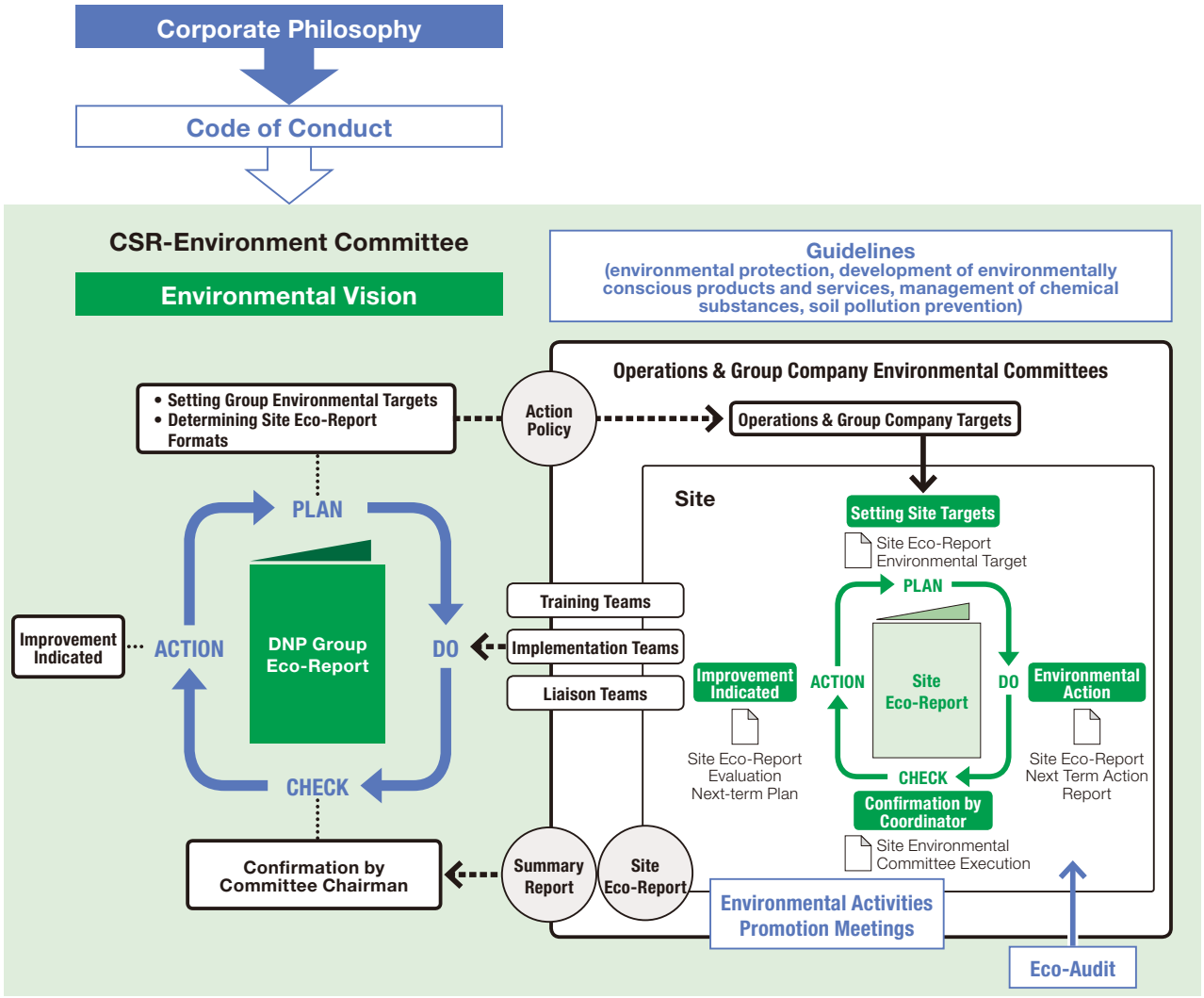
Environmental Management System

The DNP Group created its own environmental management system (EMS) in 1993, prior to the publication of ISO 14001. Our EMS uses the twin tools of Eco-Reports and Site Eco-Reports set up by the CSR-Environment Committee Office as a framework. We also execute the “Plan-Do-Check-Action” cycle every six months.

The Eco-Reports cover trends in environmental issues and changes in applicable laws, our courses of action, and how well the DNP Group overall has achieved its targets. The Eco-Reports are distributed to the Operations & Group Company Environmental Committees and to every business site. The Site Eco-Reports document each site’s targets, plans, and status of activities. The Operations & Group Company Environmental Committees use the Site Eco-Reports to gain an understanding of the situation at each site and submit a summary report to the CSR-Environment Committee.

The CSR-Environment Committee and the Operations & Group Company Environmental Committees carry out continuous improvement activities through training teams, implementation teams, liaison teams, etc. Progress is checked through periodic environmental activities promotion meetings.

Outline of the DNP Group Environmental Management System



Eco-Audit Content and Flow

We began implementing “Eco-Audits” in 1996, so as to make our Environmental Management System (EMS) more effective.

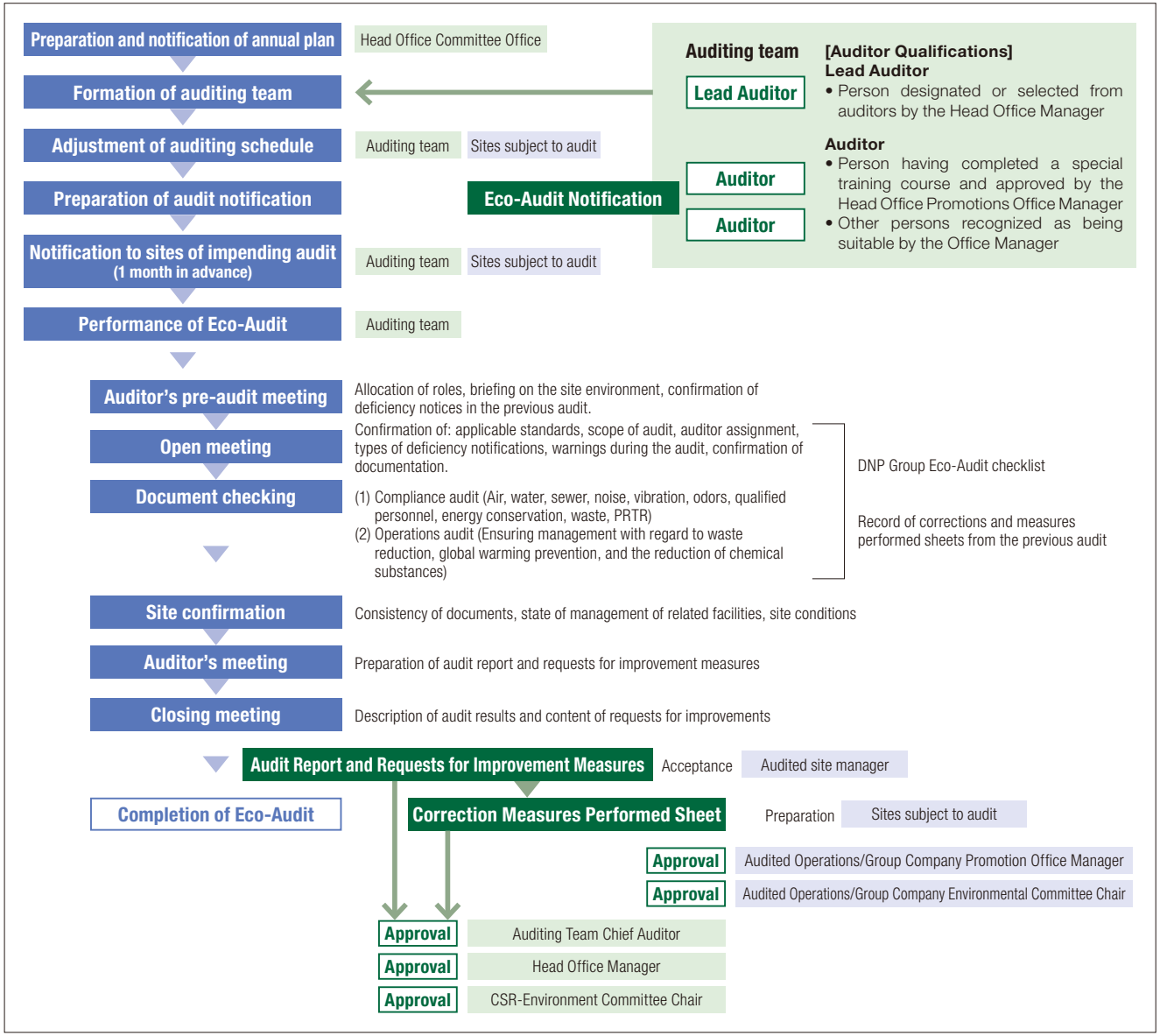
Eco-Audits have the following features.

(1) Because auditors are DNP employees from sites not being audited, they have specialized knowledge about the products and processes and are able to maintain an independent perspective, which produces meaningful, objective results from the audit.

(2) In the Eco-Audit we place importance on on-site confirmation of actual items. In addition, we point out factors for which danger is projected and request preventive action when needed.

(3) In addition to confirmation of compliance, we confirm the status of continuous improvements and corrections being made towards the achievement of the environmental targets. When necessary, we require audited sites to review plans.

Under this system, when an audit reveals that corrective measures are needed at a site, a “corrective action request” is issued in writing and such actions as necessary are managed by the CSR-Environment Committee.



Eco-Audit Performance

Number of sites audited	**70 sites**
Number of attendees at sites	**506 persons**
Cumulative auditor numbers	**123 persons**
Cumulative auditing hours	**346 hours**

• Notification level and improvements required

Improvement required	➡	**Submission of a written description of correction measures performed or improvement plans**
Improvement consideration & examination	➡	**Submission as necessary of a written description of results of consideration/ examination or improvement plans**

Indications of “improvement required” at domestic sites included items such as insufficient reporting by qualified personnel and at specific sites and other legal violations, but we confirmed that the necessary improvement measures were being taken in each case.

The areas indicated as requiring improvement are analyzed and follow-up Eco-Audits will be carried out in FY2016.

Eco-Audit Content

Compliance Audit

(1) Document Audit
- Site location
- Type and number of legally-designated facilities
- Types of waste
- Energy consumption
- Exhaust and wastewater channels
- Changes in facilities, production processes since the last audit
- Applicable laws and their range
- State of improvement of notifications of deficiencies in previous audit
- State of submission of and changes to legal notifications and reports
- Frequency of measurement, validity and traceability of measured data
- Changes in management personnel due to internal transfers

(2) On-site Inspections
- Site location and relationship with surrounding sites
- Conformity to statutory facility document audit (type, number, scale, etc.)
- State of management of individual facilities and equipment, existence of abnormalities
- Emergency containment in case of abnormality or emergency
- Site picture-taking
- Appropriateness of actual work performed

Operations Audit

PLAN
Validity of Policy, Targets and Action Plans
- Consistency with DNP Group policies and targets
- Consistency with action plans and targets
- Implementation system and schedule
- Awareness level of employees

DO
Confirm status of plan implementation and target achievement
- Progress status of plan
- Achievement of targets

CHECK
Status of progress management of plan
- Holding of environment-related meetings
- Content of environment-related meetings

ACTION
Status of reviews by term
- Review of previous term results and reflection in plan

Environmental Risk Management

The DNP Group publishes regular Eco-Reports which cover trends in environmental regulations, and also conducts Eco-Audits to ensure full compliance with all laws and regulations. Our compliance efforts also include the establishment of and strict adherence to our own voluntary standards (air, water, noise, vibration, odor) and voluntary guidelines (chemical substance management, soil contamination measures), which exceed what is legally required.

The DNP Group handles many chemicals in its production processes. We have drawn up a Chemical Substance Management Guide for chemical substance handling, and have set up levees and emergency shutoff systems to prevent liquids from overflowing and installed two-tier holding tanks for the prevention of accidents at plants handling chemicals. We also stock up on materials that can be used during emergencies and hold emergency response drills to ensure the proper response in the event of an occurrence.

• Soil and Groundwater Contamination

The DNP Group conducts soil inspections based upon our voluntary management guidelines. When soil contamination is discovered, we file a report with the office of the governor or mayor in charge of that prefecture or city, and upon receiving instructions from the local authorities, we implement appropriate measures for removing the contamination.

In addition to continuing the purification of pump water at one site in FY2015, we also inspected tanks, waste storage sites, and areas for storing equipment that handles waste PCBs to prevent soil contamination.

• PCB Storage

PCBs are currently in storage at 18 sites, with 144 condensers and 30 transformers; a total of 174 units. The PCBs are contained in electrical equipment formerly used in substation facilities at our plants. Fluorescent lighting ballasts and other equipment containing PCBs have also been placed in storage. Storage consists of special containers in designated storage rooms at each site, managed under the strictest conditions in accordance with applicable regulations to ensure there is no leakage or loss. The PCBs in storage will gradually be disposed of as required by law according to the disposal plans for each region.

• Status of Legal Compliance

While we make all efforts to comply with environmental laws and regulations, over the past three years we have experienced three incidents in which air or water quality standards were exceeded and in each case improvement reports were submitted to the government. There are no ongoing legal disputes involving environmental issues. We have unfortunately had some complaints from areas neighboring our plants concerning noise and odors. Whenever we receive such complaints, we respond promptly by launching a thorough investigation into the cause of the problem and by working to make improvements and prevent recurrence.

Changed operating procedure for automatic dishwasher

Changed operational conditions for activated carbon regeneration equipment

Occurrences (causes, improvements, and recurrence prevention measures)

February 24, 2014
Tanabe Plant, DNP Technopack
Governmental water analysis → pH measurement values exceeded regulatory standards for draining systems, so an improvement report was submitted.

The cause of excessive pH levels was the pH level of a special detergent used for an automatic dishwasher in the kitchen. We implemented procedures to confirm that the water inside the dishwasher after use of a special detergent was neutralized, and had pH levels within standard limits. After implementation, we were able to confirm through water quality tests that the values met those standards.

July 24, 2015
Tanabe Plant, DNP Technopack
Governmental measurement of concentration of volatile organic compounds (VOCs) in exhaust air → Values for VOC concentration exceeded the legal limit, so an improvement report was submitted.

The cause of the problem was found in the equipment that recovers and treats VOCs in exhaust gas. The adsorption ability of the activated carbon that adsorbs the VOCs had deteriorated. To prevent a recurrence, we are changing the operational conditions of the activated carbon regeneration equipment to improve the adsorption ability of the activated carbon, and are periodically monitoring its adsorption ability. After implementation of these steps, we were able to confirm that VOC concentration levels were within standard limits.

November 12, 2015
Chikugo Plant, DNP Technopack
Governmental water analysis → pH measurement values exceeded regulatory standards for draining systems, so an improvement report was submitted.

The cause of excessive pH levels was the failure of the wastewater neutralizing apparatus on the waste heat boiler. To prevent a recurrence, we repaired the controller and alarm device and will conduct periodic inspections. After implementation, we were able to confirm through water quality tests that the values met those standards.

Certification Acquisition Status

The DNP Group has established an independent environmental management system and is pursuing the acquisition of ISO 14001 certification at specific sites, depending on the type of work performed at those sites. (DNP organization names are as of June 30, 2016)

ISO 14001 Certificates

Site	Date Registered *1	Registration Organization
Okayama Plant, Imaging Communications Operations	Nov. 1997	JIA-QA
Mihara East Plant, Fine Optronics Operations	Jul. 1998	DNV
Okayama Plant, Lifestyle Materials Operations	Jul. 2000	JIA-QA
DT Fine Electronics *2	Mar. 1997	JACO
Sayama Plant No.1, DNP Technopack	Dec. 2001	SGS
Kobe Plant, Lifestyle Materials Operations	Jan. 2002	JIA-QA
Tokyo Plant, DNP Fine Chemicals	Jan. 2002	JCQA
Ushiku Plant, Information Innovation Operations	Mar. 2002	DNV
Tokai Plant, DNP Technopack	Mar. 2002	JCQA
Tien Wah Press (Singapore)	May 2002	PSB
Chikugo Plant, DNP Technopack	Jun. 2002	DNV
Sayama Plant, Imaging Communications Operations	Oct. 2002	JIA-QA
Kurosaki Plant No.2, DNP Fine Optronics Co., Ltd.	Jan. 2004	DNV
Tokyo Plant, Lifestyle Materials Operations	Jan. 2004	JIA-QA
Kamifukuoka Plant, Fine Optronics Operations	Mar. 2004	AJA
Itabashi Area, Sales Division 1, DNP Logistics	Oct. 2004	AJA
Tokyo Plant, DNP Ellio	Jan. 2005	LRQA
Osaka Plant, DNP Ellio	Jan. 2005	LRQA
Warabi Plant, Information Innovation Operations	Mar. 2005	DNV
Nara Plant, DNP Data Techno Kansai	Jun. 2005	DNV
Tien Wah Press (Johor Bahru)	Nov. 2005	PSB
Kashiwa Plant (incl. Utsunomiya Site), DNP Technopack	Mar. 2006	JACO
Neyagawa Plant (incl. Tanabe Site), DNP Technopack	Mar. 2006	JACO
DNP Photomask Europe S.p.A.	Apr. 2006	CISQ
DNP Fine Chemicals Utsunomiya	Mar. 1997	JCQA
Akabane Area, DNP Logistics	Dec. 2006	AJA
Izumizaki Plant, DNP High-performance Materials Co., Ltd.	Mar. 2007	DNV
Yokohama Plant, DNP Technopack	Dec. 2007	JIA-QA
Izumizaki Plant, DNP Technopack	Aug. 2008	SGS
Kasaoka Plant, DNP Fine Chemicals	Jan. 2009	JCQA
DNP Imagingcomm Europe B.V.	Mar. 2009	LRQA
Mihara West Plant, Fine Optronics Operations	May 2009	DNV
Okayama Plant, Fine Optronics Operations	May 2009	DNV
DNP Indonesia (Pulogadung/Karawang)	Aug. 2009	AJA
Hokkaido Coca-Cola Bottling	Feb. 2010	SGS
Sayama Plant No.2, DNP Technopack	Dec. 2011	JIA-QA
DNP Imagingcomm America Corporation	Jun. 2012	NSF ISR
Kyoto Plant, DNP Data Techno	Dec. 2013	DNV

Eco Action 21 Certificates

Site	Date Registered *1	Registration Organization
Tokyo Head Office, DNP Trading	Jan. 2006	IGES

Green Key Certification Status

Site	Date Registered *1	Registration Organization
Hakone Training Center 2	May 2010	FEE

*1 Indicates the first registration date.
*2 DT Fine Electronics registered as part of Toshiba Corporation (Semiconductor Company) (Kawasaki City, Kanagawa Pref.)

Registration Organization

JIA-QA
Japan Gas Appliances Inspection Association, QA Center

DNV
Det Norske Veritas AS (Norway)

JACO
Japan Audit and Certification Organization for Environment and Quality

JCQA
Japan Chemical Quality Assurance Ltd.

PSB
PSB Certification Pte Ltd. (Singapore)

AJA
Anglo Japanese American Registrars Ltd.

LRQA
Lloyd's Register Quality Assurance Ltd.

CISQ
Federazione Certificazione Italiana dei Sistemi Qualità Aziendali (Italy)

SGS
SGS Japan

IGES
The Institute for Global Environmental Strategies

FEE
Foundation for Environmental Education

NSF-ISR
NSF International Strategic Registrations

Environmental Education

The DNP Group conducts environmental education programs according to level, working group, and function concerning the DNP Group's environmental conservation efforts, environmental knowledge, environmental laws, and domestic and overseas trends concerning environmental issues. Our goal is for employees to gain the knowledge and management know-how necessary to improving employee environmental conservation consciousness and achieving our environmental goals. A correspondence course is held twice a year for everyone in the DNP Group on ISO 14001, lifecycle assessment (LCA), and other topics.

• Awards System Instituted

In FY2012 we introduced an internal awards system. The awards are presented once a year and are reserved for plants that have made a special contribution through their environmental activities.

Such contributions include notable improvements in environmental performance, biodiversity protection activities, and renewable energy utilization. Winners are selected not only for specific accomplishments, but also in light of their results in internal environmental audits by meeting voluntary standards for environmental conservation (additional to legal requirements for air and water quality). In FY2015 awards were made to two plants for improvements in environmental performance.

Type of Training	Course Name/Description	First Held	Eligibility		Time of Year
Education for New Recruits	**Environmental Activity Overall (required)** Basic environmental knowledge and conservation efforts of the DNP Group	1994	All new recruits	Total Attendance 7,757 people	When joining the company
Technical Seminar	**Environment/Chemicals (optional)** **Environmental Laws and Regulations**	1999	Technicians	Total Attendance 1,125 people	Once yearly
Network Learning	**Biodiversity**	2010	All employees of the DNP Group		At irregular Intervals
Eco-Report Training	**Environmental Issues of the Group (required)** Domestic and international trends in environmental issues, revisions in environmental laws, degree of achievement of environmental targets, new targets, issues concerning specific sites	1993	Environmental Committee Promotion Office members and site members		Twice yearly on issue of Eco-Report

The DNP Group's Business and Environmental Activities

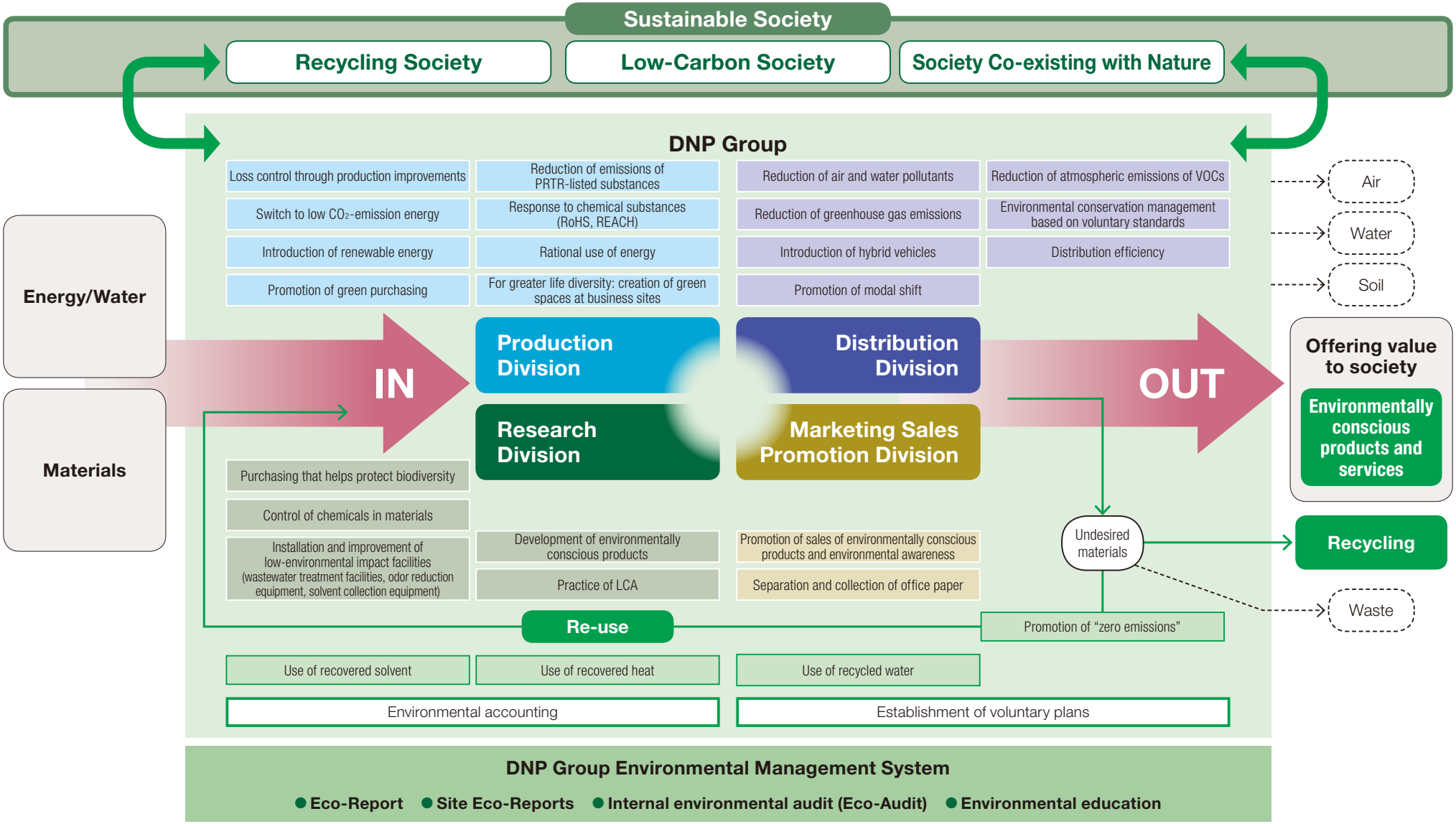


Table: Environmental Activity Targets and Results

Evaluation criteria ◎ Target exceeded by a wide margin ○ Target achieved or making steady progress toward target △ Making active efforts but target not achieved × Efforts insufficient

Topic	Reference page	Targets through FY2015	FY2015 results		Evaluation	Targets through FY2020
Global warming prevention	P 20 - 21	To reduce GHG emissions by 10% from the FY2005 levels by FY2020 and 20% by FY2030. (Includes overseas locations)	Emissions in FY2005: 1.120 million tons Emissions in FY2015: 0.989 million tons ☑	11.7% decrease from that in FY2005	◎	Reduce greenhouse gas emissions by 10% worldwide compared to FY2005 and 20% by FY2030.
Reduction of environmental impact incurred during transport	P 22	To reduce per-unit fuel use for transport (amount of fuel used/sales) by 1% per annum and 10% by FY2020 compared to FY2010.	Per unit in FY2010: 16.1 kl/billion yen Per unit in FY2015: 15.0 kl/billion yen ☑	6.8% decrease from that in FY2010	○	Reduce per-unit fuel use for transport by 1% per annum and 10% compared to FY2010.
VOCs	P 23	To reduce emissions of VOCs (except for methane) by 20% compared to FY2010 by FY2015.	Emissions in FY2010: 6,729 tons Emissions in FY2015: 4,581 tons ☑	31.9% decrease from that in FY2010	◎	Reduce emissions of all VOCs except for methane by 35% compared to FY2010.
		Overseas, based on local laws and regulations, we plan to reduce atmospheric emissions of VOCs to the greatest extent possible through introduction of technologies and other measures.	Began operation of VOC recovery equipment at DNP Indonesia's Karawang Plant		○	Comply with local laws and regulations and introduce technology and other measures to reduce, as much as practical, VOC emissions at our international business sites.
Reduction of industrial waste	P 26 - 27	To reduce per-unit waste emissions (waste emissions/production) by 15% from the FY2010 level by FY2015. (Includes overseas locations)	Per unit in FY2010: 42.4 tons/billion yen Per unit in FY2015: 35.4 tons/billion yen ☑	17% decrease from that in FY2010	◎	Reduce per-unit waste emissions (waste emissions/production) by 20% worldwide from FY2010.
		To achieve zero emissions for the entire DNP Group by FY2015.	Landfill waste rate in FY2014: 0.06% Landfill waste rate in FY2015: 0.06% ☑	Maintained zero emissions	◎	Maintain zero emissions at all DNP Group sites in Japan.
Reduction of water usage	P 28	To reduce per-unit water use by 1% by FY2015 (domestic + international).	Per unit in FY2014: 9.4 m³/million yen Per unit in FY2015: 8.5 m³/million yen ☑	9.6% decrease from that in FY2014	◎	Reduce per-unit water use by 25% over FY2010 worldwide.
Development and sales of environmentally conscious products and services	P 30 - 31	Development and sales of environmentally conscious products and services to achieve 400 billion yen by FY2015.	Sales of 478.8 billion yen in FY2014 Sales of 570.8 billion yen in FY2015 ☑	19.2% increase from that in FY2014	◎	Development and sales of environmentally conscious products and services to achieve 600 billion yen.
Green purchasing	P 29 P 34	To increase the rate of materials purchased according to the DNP green purchasing standards to 50% by FY2015.	48.2% green purchasing rate for materials in FY2014 46.5% green purchasing rate for materials in FY2015 ☑	1.7 point decrease from that in FY2014	△	Emphasize procurement of raw materials, and aim for purchasing rate of 100% for products compliant with Group Guidelines for Procurement of Paper for Printing and Converting.
		To increase the purchase rate of environmentally certified products, such as those labeled with the Eco-Mark, of the total supplies (office supplies and equipment) to 85% by FY2015.	77.5% green purchasing rate for materials in FY2014 84.7% green purchasing rate for materials in FY2015 ☑	7.2 point increase from that in FY2014	○	
Environmental conservation	P 12	To keep the maximum concentration of air emissions subject to emissions regulations at 70% of the required standard or less.	96% achievement rate of targets for FY2015 (voluntary target)		○	Maintain the maximum concentrations at 70% of the required standards or less
		To keep the maximum concentration of water emissions subject to wastewater regulations at 70% of the required standard or less.	99% achievement rate of targets for FY2015 (voluntary target)		○	Maintain the maximum concentrations at 70% of the required standards or less
		To keep the maximum concentration of odors at our site perimeters at 70% of the required standard or less.	97% achievement rate of targets for FY2015 (voluntary target)		○	Maintain the maximum concentrations at 70% of the required standards or less
		To keep the maximum level of noise at our site perimeters at 70% of the required standard or less.	98% achievement rate of targets for FY2015 (voluntary target)		○	Maintain the maximum levels at 70% of the required standards or less
		To keep the maximum level of vibration at our site perimeters at 70% of the required standard or less.	100% achievement rate of targets for FY2015 (voluntary target)		◎	Maintain the maximum levels at 70% of the required standards or less
Office environment	P 28	To increase the rate of the fractional recovery of waste paper to 70% of that for general waste.	83.5% recovery of waste paper in FY2015 ☑		◎	Increase the rate of the fractional recovery of waste paper to more than 70% of that for general waste.

Current Status of Environmental Impact

Main materials (Unit: 1,000 tons)

	2014	☑ 2015	
Paper	1,706.0	**1,670.9**	(2.1% decrease)
Film	169.9	**152.6**	(10.2% decrease)
Plastic	109.7	**109.8**	(0.1% increase)
Metal	44.2	**43.2**	(2.3% decrease)
Ink	109.5	**96.5**	(11.9% decrease)
Others	95.1	**96.0**	(0.9% increase)

Main secondary materials (Unit: 1,000 tons)★

	2014	☑ 2015	
Solvent	29.7	**29.0**	(2.4% decrease)
Acid and alkaline	9.7	**8.6**	(11.3% decrease)

Utilities

	2014	☑ 2015	
Electricity (million kWh)	1,645.0	**1,593.4**	(3.1% decrease)
City gas (million Nm³)	75.8	**70.5**	(7.0% decrease)
LNG (million kg)	20.5	**20.1**	(2.0% decrease)
LPG (million kg)	6.5	**7.6**	(16.9% increase)
Fuel oil (kl)	500	**500**	(–)
Steam (TJ)	500	**400**	(20.0% decrease)
Kerosene (kl)	1,300	**1,100**	(15.4% decrease)
Water (million m³)	13.8	**12.4**	(10.1% decrease)

INPUT

Product Manufacturing Process

Information Communication
Books and periodicals, commercial printing, business forms

Lifestyle and Industrial Supplies
Packaging, decorative materials, industrial supplies

Electronics
Displays, electronic devices

Other
Ink, beverages, etc.

OUTPUT

Current Status of Recycling in the DNP Group★

	2014	2015
Recycled solvent (1,000 tons)	6.7	**7.1**
Usage ratio[*1]	1.2	**1.3**
Recycled acid and alkaline ((1,000 tons)	5.3	**4.5**
Usage ratio	1.6	**1.5**
Recycled water (million m³)	417.7	**401.7**
Usage ratio	33.6	**35.0**
Vapor generated from waste heat recovery (tons)	177,000	**174,200**

*1 **Usage Ratio:** This is a calculation of (input+recovery and recycling)/input. It does not include vapor or solvent in ink.

*2 **GHG:** Greenhouse Gases
Emissions from the use of electricity were recalculated to include past years using the FEPC's FY2005 coefficient.

*3 Water discharge channels to which the Water Pollution Control Act applies.

★ Scope limited to within Japan only

Emissions into the air

	2014	☑ 2015	
GHG[*2] emissions (1,000 tons-CO_2)	1,028	**989**	(3.8% decrease)
NOx emissions (tons)★	657	**657**	(–)
SOx emissions (tons)★	11	**6.7**	(39.1% decrease)
Atmospheric emissions of VOCs (tons)	17,288	**14,461**	(16.3% decrease)

Emissions into bodies of water

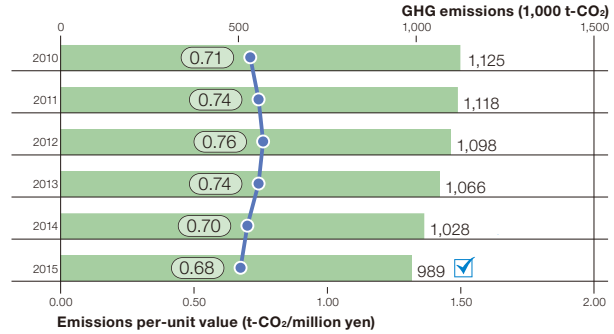
	2014	☑ 2015	
Water discharged (million m³)	11.6	**10.3**	(11.2% decrease)
COD emissions (tons)★	34.7	**34.7**	(–)
Nitrogen emissions (tons)★ [*3]	10.9	**8.8**	(19.3% decrease)
Phosphoric emissions (tons)★ [*3]	0.6	**0.5**	(16.7% decrease)

Undesired materials generated (Unit: 1,000 tons)

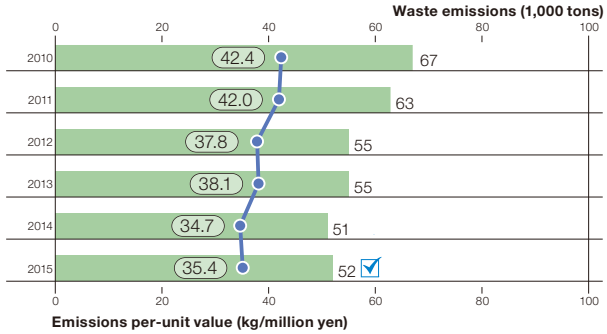
	2014	☑ 2015	
Total amount of undesired materials	342.9	**332.4**	(3.1% decrease)
Waste emissions	50.8	**51.5**	(1.4% increase)
Landfill waste amount	3.5	**4.4**	(25.7% increase)

Environmental Impact and Environmental Efficiency

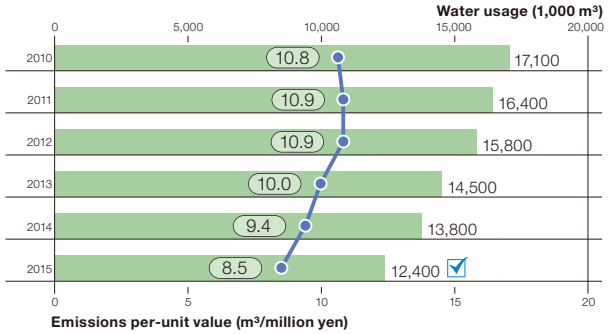
DNP Group's GHG emissions (including international operations)



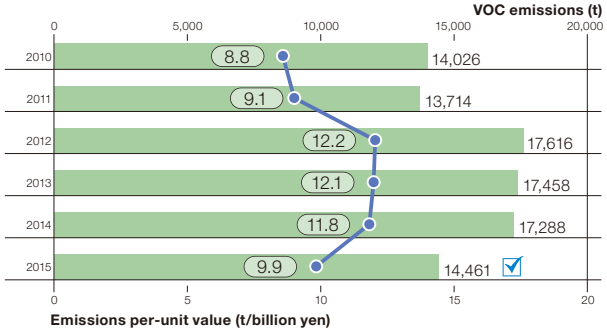
DNP Group's waste emissions (including international operations)



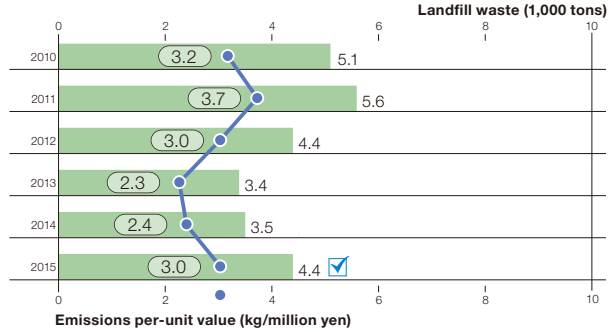
DNP Group's water usage (including international operations)



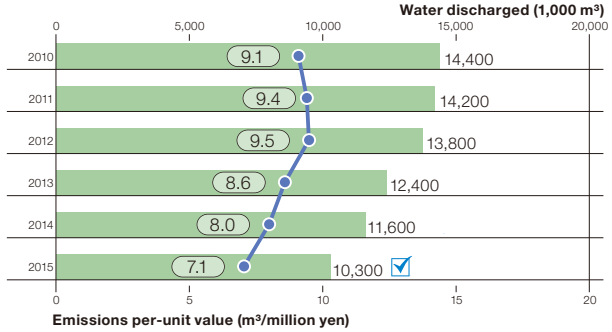
DNP Group's VOC emissions (including international operations)



DNP Group's landfill waste (including international operations)



DNP Group's water discharged (including international operations)



Efforts to Reduce GHG Emissions Across the Entire DNP Group Supply Chain

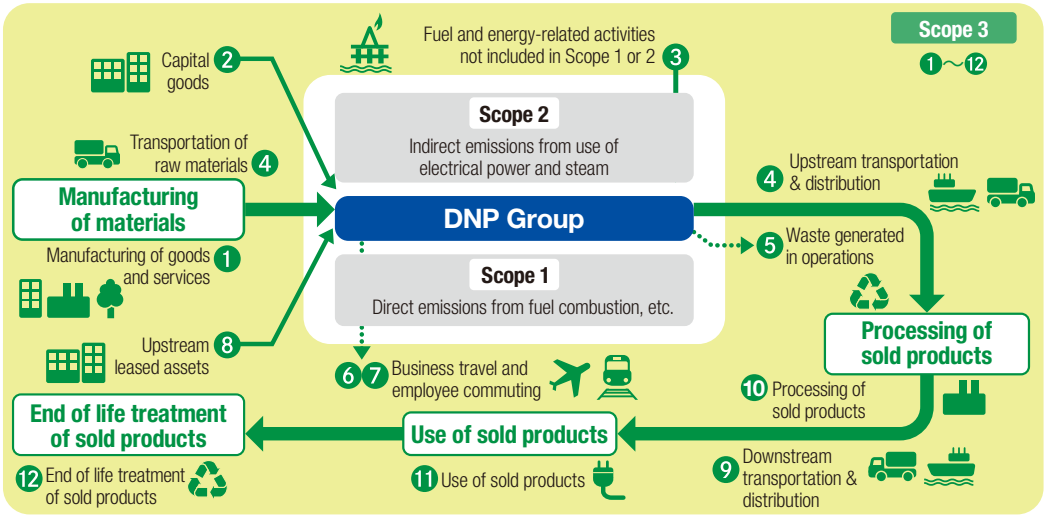
Greenhouse gas (GHG) emissions are one cause of global warming. The DNP Group is taking active steps to reduce GHG emissions on a global scale.

In developing environmentally conscious products, we consider it vital to understand GHG emissions in the overall lifecycle of a product. We have therefore calculated GHG emissions across our entire supply chain including main overseas sites (for FY2011 to FY2015) (Scope 3), not only at the stage of manufacturing but also including indirect emissions.

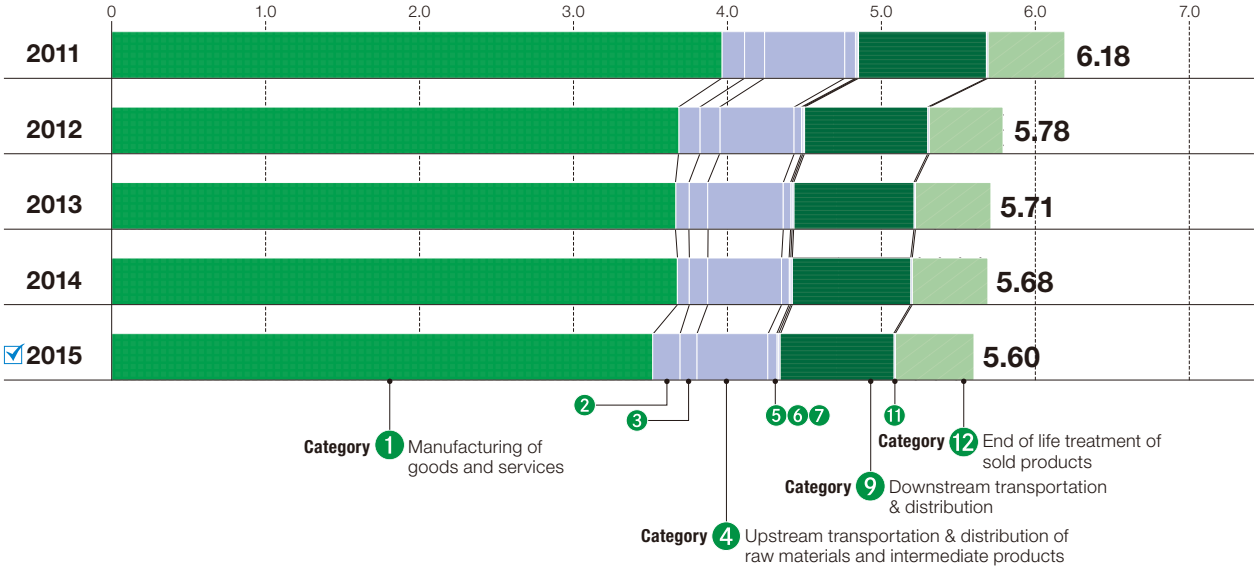
The Scope 3 emissions for FY2015 stood at 5.60 million t-CO_2 and break down as follows: “Manufacturing of goods and services” (Category 1) at 63%, which accounted for the largest portion; “Downstream transportation & distribution (finished products)” (Category 9) at 13%; “End of life treatment of sold products” (Category 12) at 9%; “Upstream transportation & distribution of raw materials and intermediate products” (Category 4*1) at 8%. These four categories together accounted for 93% of the total.

We will continue to promote the reduction of emissions across our entire supply chain in the future based on these results.

Management of greenhouse gas emissions across the entire supply chain



Scope 3 GHG emissions across entire supply chain including overseas sites (Unit: million tons-CO_2)



Calculation Method

The Ministry of Economy, Trade and Industry (METI) and the Ministry of the Environment (MOE) formulated and released the “General Guidelines on Supply Chain GHG Emission Accounting, Ver 1.0”*2 the standards of which our calculations*3 are based upon. (Of the 15 Scope 3 categories, Categories 8, 10, 13 and 14 were not applicable, while Category 15 was excluded from the calculation.)

*1 Scope 1 emissions attributable to transportation and distribution carried out by group companies were included under Category 4.

*2 These guidelines were drawn up for the purpose of providing calculation methods, etc., that are easy to use for Japanese companies based on the Scope 3 Standard, an international standard from the GHG Protocol.

*3 Main DNP business sites in Japan were set as the scope of calculations (excluding Hokkaido Coca-Cola Products and the Bookstore Group among others), in addition to key overseas sites (PT DNP Indonesia, DNP Imagingcomm America Corporation, and Tien Wah Press (Pte.) Ltd.).

In addition, the unit values database used for our calculations can be viewed on the MOE’s Green Value Chain Platform.
(http://www.env.go.jp/earth/ondanka/supply_chain/gvc/index.html)

Greenhouse Gas Emissions Reduction

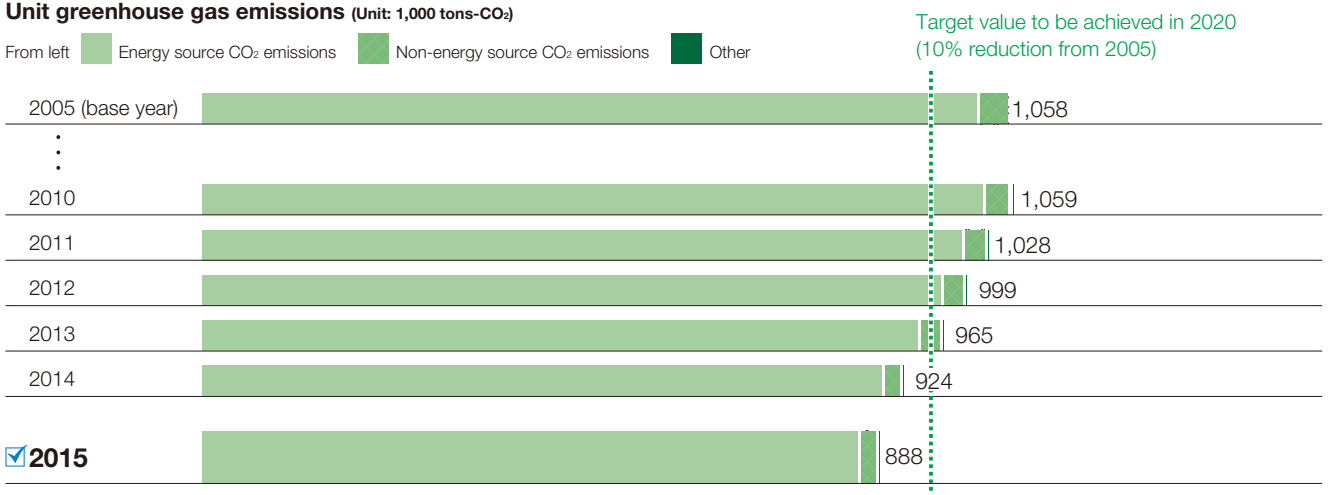
Important steps that the DNP Group has taken leading to a low-carbon society include reducing the consumption of forms of energy that generate CO_2 (energy conservation), switching to low CO_2-emission fuels, and introducing renewable energy sources.

• Reducing Consumption of CO_2-Generating Energy

The DNP Group's overall greenhouse gas emissions in FY2015 totaled 888,000 tons. This breaks down as follows: energy source CO_2 emissions, 866,000 tons; non-energy source CO_2 emissions, 21,300 tons; methane converted to CO_2 emissions equivalent, 42 tons; N_2O emissions, 460 tons. There were 30 tons of emissions of perfluorocarbons (PFCs) and 20 tons of sulfur hexafluoride (SF_6), but no emissions of hydrofluorocarbons (HFCs) or nitrogen trifluoride (NF_3).

In FY2015, our main efforts to reduce CO_2 emissions included conserving energy used for air conditioning and power, improving production line operations, efficient heating units, etc. Energy conservation subcommittees adapted to the characteristics of each business area were also formed. In FY2016, we will continue our aggressive efforts to limit greenhouse gas emissions by continuing with the switch to low CO_2-emission fuels, introducing energy-saving equipment such as inverters, efficient air conditioners, and heating units, and improving production efficiency.

Unit greenhouse gas emissions (Unit: 1,000 tons-CO_2)



Greenhouse gas emissions volume The calculation of greenhouse gas emissions at domestic production sites due to electricity use, fuel use/combustion, burning of waste, and atmospheric emissions of HFCs/PFCs/SF_6 is performed according to type of energy. For city gas, the computation is performed according to the quantity of heat in Appendix 4, "List of City Gas Suppliers and Supplied Quantity of Heat" (revised April 15, 2013) of the Requirements for Filling Out Periodic Reports Based on Articles 15 and 19-2 of the Act on the Rational Use of Energy. For other types of energy, the calculation is performed using the calorific value and emission factors contained in the revised Act on Promotion Global Warning Countermeasures (an enforcement ordinance published March 31, 2010 by the Ministry of the Environment and Ministry of Economy, Trade and Industry). Additionally, for electricity emission factors, the FEPC's 2005 point-of-use CO_2 emissions unit value of 0.423 (kg-CO_2/kWh) was used uniformly. Also, the Guideline for Greenhouse Gas Emissions Calculation for Businesses (Draft Ver. 1.6) (July 28, 2005, partially revised; Ministry of the Environment) is used for recalculating the base year greenhouse gas emissions due to the change in our aggregate accounting range resulting from M&As. The 2005 (base year) figure in the graph above is the sum of FY2005 domestic production site emissions and FY2009 non-production site emissions. Furthermore, Scope 1 emissions attributable to transportation and distribution carried out by group companies are not included.

Energy Conservation Subcommittees

In FY2015, continuing on from the previous year, DNP carried out subcommittee activities based on the characteristics of each business area. New initiatives included the utilization of waste heat from offset rotary presses and the recycling of exhaust gas from air conditioners. At Information Communication plants this year a system was developed to reuse the previously unutilized high-temperature waste heat from deodorizing equipment for the offset rotary press drying equipment, thereby reducing gas usage. At Lifestyle and Industrial Supplies plants, we rolled out measures to slash the amount of cooling water used when molding equipment is at rest, thereby reducing pump energy consumption. At Electronics plants, the amount of washing water for photomask washing equipment was optimized, reducing the amount of ultrapure water needed. Among the measures taken at each plant, the most effective measures were implemented at all plants, information about which continued to be distributed through an "Energy Savings News" organ. In addition, in training provided for the manufacturing and personnel divisions at the Tsukuba Techno Center, talks were given on how to diagnose air leaks and other topics to stimulate energy-saving activities at plants.

Session on saving energy in printing training

Practical skills in printing training (how to diagnose an air leak)

Switching to Low CO_2-Emission Fuels

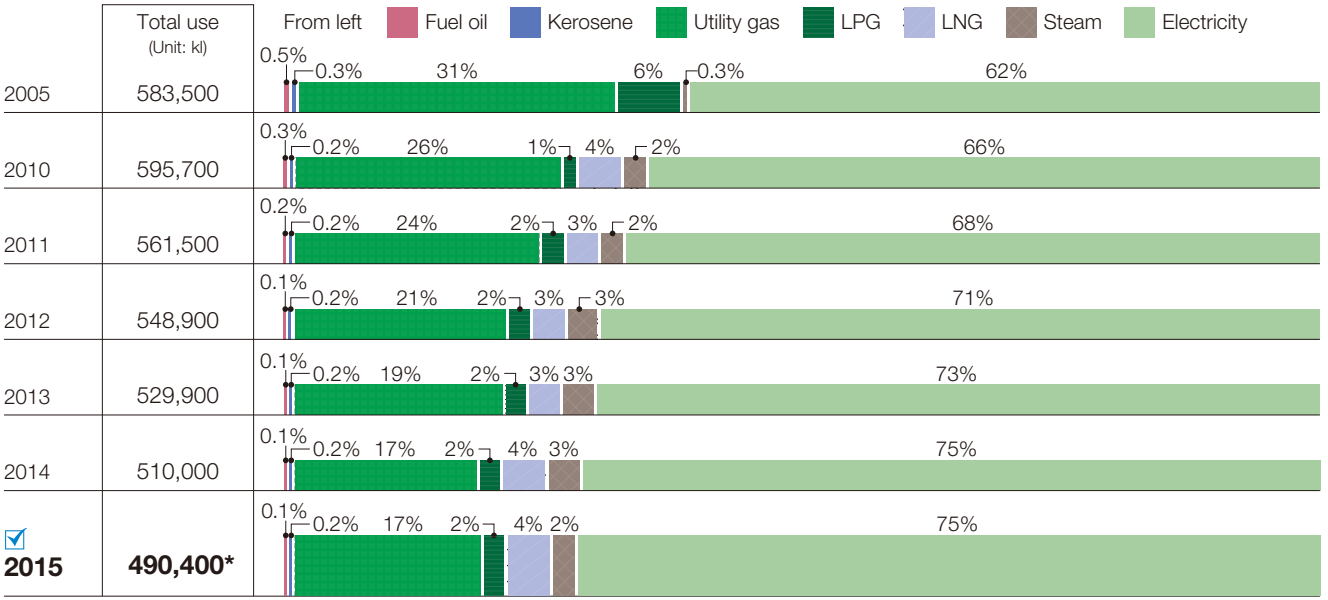
• Shift to Energy with Lower CO_2 Emissions

The DNP Group is making progress in the switch to low CO_2-emission fuels to reduce emissions of greenhouse gases.

We have been making the switch from diesel, kerosene, and similar high CO_2-emission petroleum fuels into low CO_2-emission utility gas, LPG (liquefied petroleum gas), and LNG (liquefied natural gas) since before 1990, and plan to continue to do so.

We are also moving ahead with renewable energy. DNP High-performance Materials' Izumizaki Plant installed a solar power generation system in 2009, while in FY2011 DNP Technopack Tanabe Plant and Ichigaya Kagacho No.2 Building each installed solar systems with respective capacities of about 30 kW. Furthermore a 10 kW solar system has been installed at the Ichigayatamachi Building, and in FY2015, systems were installed at the Ichigaya Kagacho Building (36 kW), Takashomachi Building (24 kW), and Sayama Plant (6 kW). We also currently purchase 1.75 million kWh of Renewable Energy Certificates annually to cover part of the power consumption used by manufacturing processes within the group (for printing, bookbinding and processing), the showroom of the Ichigayatamachi Building and other facilities.

Fuel composition

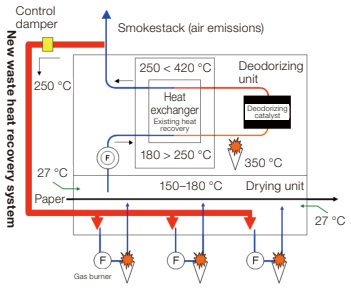


Note: Gasoline and diesel fuel for automobile use are also used (less than 0.2%) in addition to these fuels above.
*Corrected from 510,000 kl in October 2016.

Kuki Plant, Publication Printing Operations
Offset Rotary Press Waste Heat Reutilization

Manabu Ohara, Publication Printing Operations

The Kuki Plant for publication printing employs an integrated system for producing magazines that includes plates, printing, and binding. Our core piece of equipment is the offset rotary press. To combat the odor of ink drying, we use a catalytic combustion process of deodorization. This type of treatment, however, consumes large amounts of city gas. Part of the waste heat generated through this combustion had been recovered within the deodorizing unit, but heat at a temperature of about 250 °C was still being released through a smokestack.



We therefore newly installed a waste heat recovery system ("Eco-return") to reuse the recovered heat in the drying process, in combination with an automatic control system that we developed to maximize the amount of waste heat recovered. This initiative has reduced city gas consumption by approximately 20%.

The resulting reduction in greenhouse gas emissions is approximately 120 t-CO_2 annually. We are now implementing this system with other equipment as an important effort to prevent further global warming.

Anti-Global Warming Measures in Transport and at Our Offices

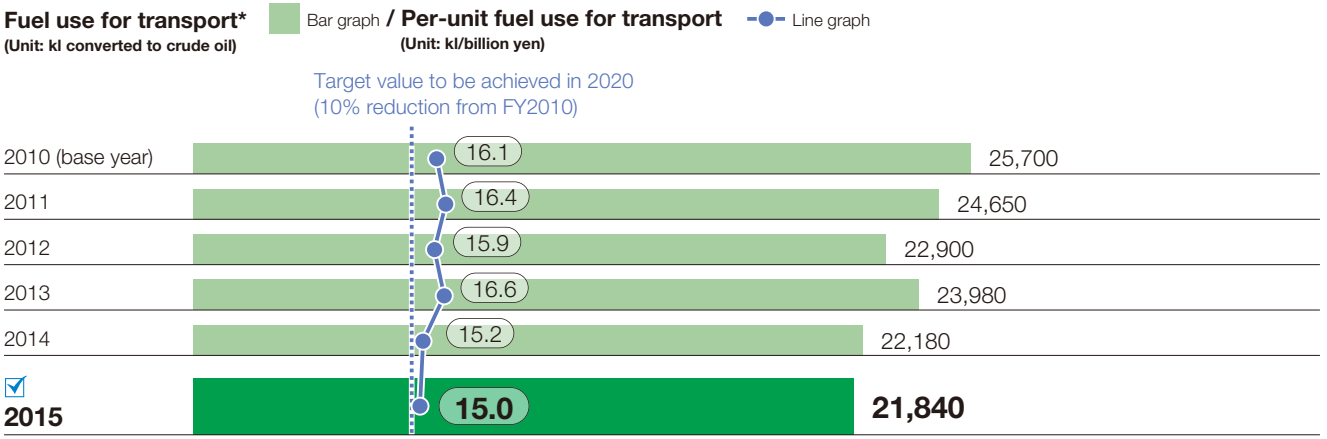
• Efforts in Transport

In FY2015, the group's overall transport volume (at domestic manufacturing sites) was 329 million ton-kilometers. 21,840 kiloliters of energy (converted to crude oil) was used in shipping, producing 54,200 tons of CO_2 emissions. Additionally, emissions attributable to transportation and distribution carried out by group companies (Scope 1) came to 15,900 tons. The per-unit fuel use for transport (amount of fuel used/sales) was 15.0 kl/billion yen, a decrease of 6.8% from FY2010.

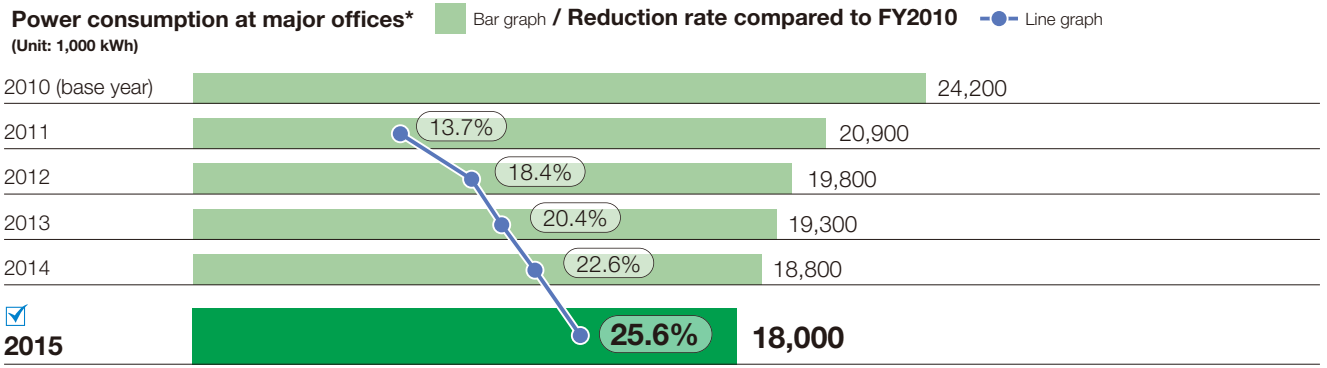
We will continue to implement distribution-related environmental impact reduction measures such as the optimization of vehicle distribution and transport routes, improved efficiency through the installation of digital tachometers, an idling-stop campaign, a modal shift to rail transport, and the introduction of hybrid vehicles.

• Global Warming Measures for Offices and Homes

The DNP Group has been engaged in efforts to reduce CO_2 emissions both for offices and homes since FY2005. In FY2015, we worked toward our target of a 20% reduction in power consumed at our offices throughout Japan relative to FY2010. Specifications that we implemented and will continue implementing, beyond regular energy-saving measures, include completely revising the number of lighting fixtures and level of illumination needed, extending the "cool biz" dress code period, reviewing how air conditioning is run, and expanding the use of LED lighting.



*Amount used for domestic cargo transport



*38 major offices in Japan under continuous operation during the period FY2010–FY2015

Reducing Air Pollutants

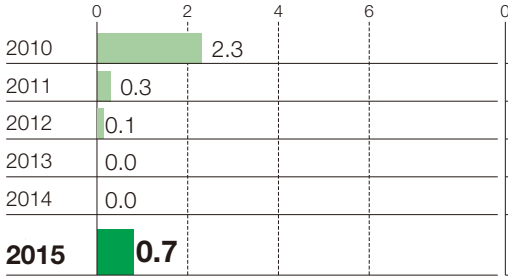
The Air Pollution Control Act regulates substances such as toxic air pollutants and ozone depleting substances, including sulfur oxide (SOx) and nitrogen oxide (NOx), as well as volatile organic compounds (VOCs). These substances have an impact on health and the global environment, causing problems such as photochemical smog and ozone layer depletion. We at the DNP Group are working hard to monitor and reduce emissions of such substances.

• Reducing VOC Emissions

Inks, solvents, adhesives, and cleaning solutions used in the printing process contain toluene and other VOCs (volatile organic compounds). The DNP Group's anti-VOC measures not only seek to regulate concentrations as required under the Air Pollution Control Act, but also to reduce emissions overall. We have been switching to substitute products with a lower environmental impact and installing equipment for VOC treatment and collection. These efforts have resulted in FY2015 in a 31.9% reduction in VOC emissions to 4,581 tons, in comparison with FY2010 (base year).

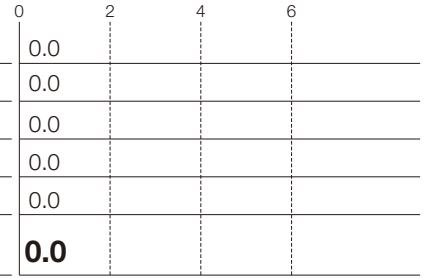
Air pollutant emissions

Dichloromethane (Unit: tons)



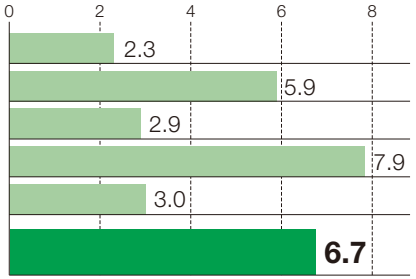
Although dichloromethane was mainly used for washing in the printing process, we have pursued a switchover to substitutes. At present a certain amount is used as a solvent. Our atmospheric emissions have fallen from 53 tons in FY2001 to 0.7 tons in FY2015.

Chlorofluorocarbons (Unit: tons)



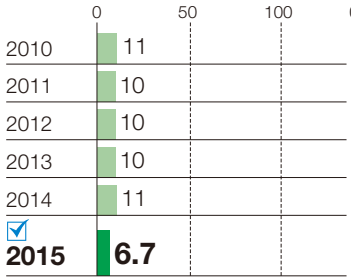
The ozone-depleting chemical HCFC-141b (1,1-dichloro-1-fluoroethane) is used as a cleaner, but our switch to substitutes in FY2010 caused emissions to drop to zero.

Dioxins and dioxin-like compounds (Unit: mg-TEQ)

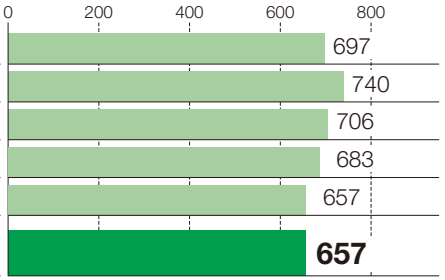


We totally eliminated small furnaces, for which burning control is difficult, and currently have five large-scale furnaces in operation, which are compliant with 2002 regulations. Atmospheric emissions in FY2015 amounted to 6.7 mg-TEQ.

SOx (Unit: tons)



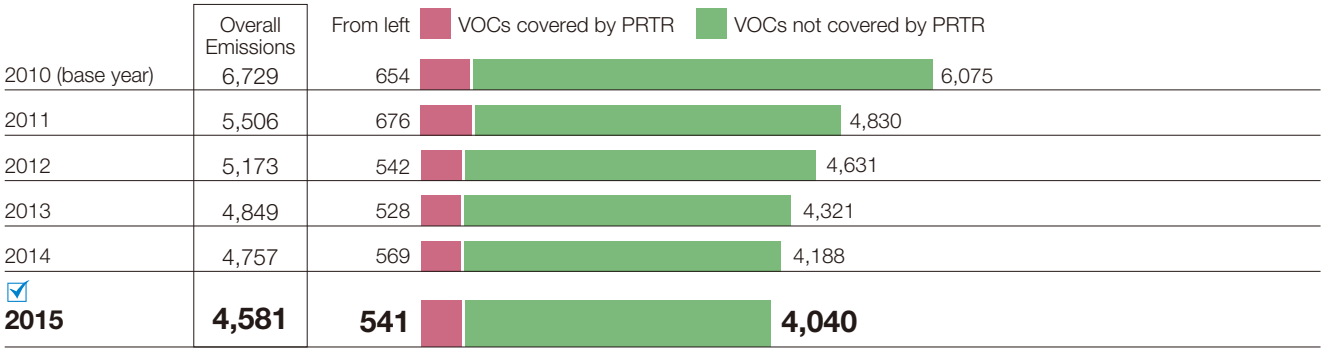
NOx (Unit: tons)



Sulfur oxide is emitted through burning high-sulfur fuel oil and kerosene. We are making ongoing efforts to discontinue use of fuel oil, and in FY2015 our emissions were 6.7 tons.

Nitrogen oxide is emitted when fuel is burned in production processes or when electric power is consumed. We have been working to reduce nitrogen oxide emissions by installing low NOx burners. NOx emissions in FY2015 amounted to 657 tons.

Atmospheric emissions of VOCs (Unit: tons)

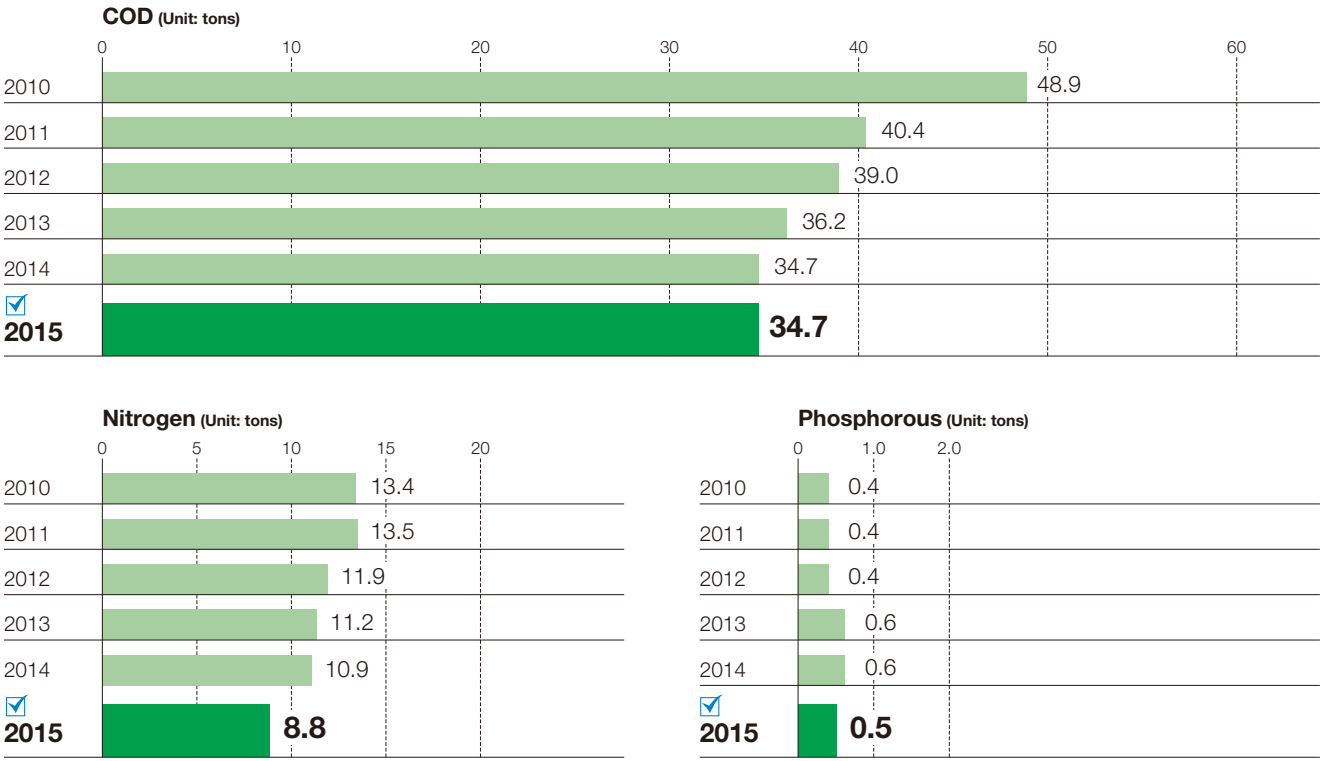


	Overall Emissions	From left	VOCs not covered by PRTR
2010 (base year)	6,729	654	6,075
2011	5,506	676	4,830
2012	5,173	542	4,631
2013	4,849	528	4,321
2014	4,757	569	4,188
2015	**4,581**	**541**	**4,040**

Reducing Water Pollutants

We detoxify and reduce the pollution load of the wastewater from our industrial processes and dining halls by using purification tanks and wastewater treatment equipment. We continued to conduct measures in FY2015, such as changing out the filtration membranes and absorbent materials in wastewater processing equipment, improving wastewater treatment in our kitchens, and reducing nitrogen and phosphorous emissions.

Water pollutant emissions



Chemical Substances Subject to the PRTR Law

Annual amounts of chemical substances handled at each plant above the defined reporting levels set by the PRTR Law are tallied here (amounts listed to 2 significant figures, or to the nearest 0.1 for figures under 1).

(Unit: kg, Dioxin and dioxin-like compounds only: mg-TEQ)

Substance	Handled	Consumed	Removed/ Consumed	Recycled	To Atmosphere	Public Waterways	Soil	Sewer	Waste
Acetonitrile	3,200	–	190	–	32	–	–	–	3,000
2-aminoethanol	40,000	–	–	–	–	–	–	26,000	14,000
Indium and its compounds	12,000	2,800	–	9,000	–	–	–	–	230
Ethylbenzene	180,000	–	120,000	56,000	2,500	–	–	–	650
Ethylene glycol monomethyl ether	1,000	–	670	320	56	–	–	–	–
Ferric chloride	2,000,000	390,000	610,000	850,000	–	–	–	–	140,000
Epsilon-caprolactam	6,300	3,200	2,000	–	120	–	–	–	970
Xylene	160,000	–	110,000	42,000	1,800	–	–	–	10,000
Chromium and chromium(III) compounds	44,000	16,000	0.9	12,000	–	–	–	2.2	16,000
Hexavalent chromium compounds	16,000	8,700	7,000	0.9	–	–	–	0.2	360
Vinyl acetate	1,500	1,500	1.1	–	0.5	–	–	–	10
Inorganic cyanide compounds (except complex salts and cyanate)	1,800	–	230	–	480	–	–	–	1,000
Dichloromethane	2,100	–	–	–	700	–	–	–	1,400
2,6-Di-tert-butyl-4-methylphenol	1,000	–	680	290	39	–	–	–	–
Bromine	1,900	–	–	–	–	–	–	–	1,900
Dioxins and dioxin-like compounds	–	–	–	–	6.7	–	–	–	280
Water soluble copper salts (except complex salts)	280,000	57,000	18,000	200,000	–	–	–	1.2	600
Triethylamine	1,400	–	–	–	–	–	–	–	1,400
1,2,4-trimethylbenzene	19,000	–	4,600	13,000	1,900	–	–	–	–
1,3,5-trimethylbenzene	6,100	–	3,700	2,300	42	–	–	–	43
Toluene	12,000,000	2,000,000	7,000,000	1,400,000	530,000	–	–	–	630,000
Naphthalene	11,000	–	11,000	–	55	–	–	–	34
Nickel	34,000	23,000	1,600	9,200	–	–	–	–	100
Nickel compounds	11,000	1,400	–	9.4	–	–	–	–	10,000
Bis(2-ethylhexyl)phthalate	3,400	1,500	1,200	–	69	–	–	–	560
N-hexane	2,500	–	1,200	67	140	–	–	–	1,100
1,2,4-benzenetricarboxylic acid 1,2-anhydride	3,300	2,900	–	–	–	–	–	–	420
Poly(oxyethylene) alkyl ether*	4,100	1,300	2,500	–	39	–	–	–	270
Formaldehyde	3,300	–	–	–	3,300	–	–	–	–
Manganese and its compounds	3,000	1,500	–	550	–	–	–	28	880
Methacrylic acid	14,000	14,000	–	–	–	–	–	–	–
n-Butyl methacrylate	2,300	2,300	–	–	–	–	–	–	–
Methyl methacrylate	25,000	25,000	–	–	1.9	–	–	–	99
Methylenebis(4,1-phenylene) diisocyanate	2,300	2,300	–	–	–	–	–	–	–
Morpholine	2,200	–	2,000	–	31	–	–	–	200
☑ **PRTR-listed substances**	**14,000,000**	**2,500,000**	**7,900,000**	**2,600,000**	**540,000**	**0**	**0**	**26,000**	**840,000**

*Limited to alkyls of carbon 12 through 15 or their compounds

Reducing Waste Products in Manufacturing Processes

To help build recycling into society we are engaged in efforts to improve resource productivity and increase the recycling of undesired material. These efforts are premised on the waste-free use of raw materials that go into manufacturing processes. Undesired material is recycled as much as possible to utilize limited resources efficiently.

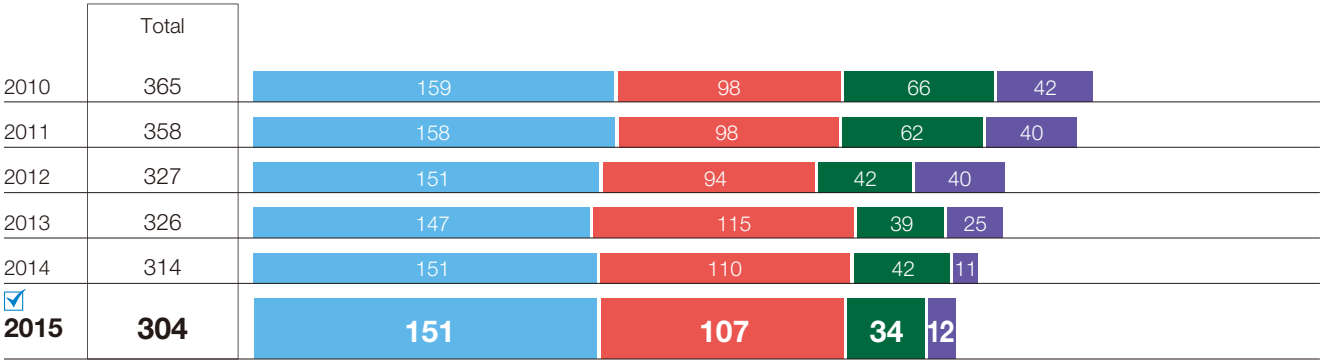
We use waste per unit of production (waste emissions (E+F [next page])/production volume) as a productivity indicator. In FY2015 waste per unit of production was 31.5 t/billion yen (domestic waste emissions/production), which is an improvement over 40.8 t/billion yen in FY2010. This reduction was achieved in part thanks to productivity gains made by implementing the Production 21 Activities, which set out to create a resilient production system in terms of quality, cost, delivery, and other factors. It was also the result of a reduction in waste volume through the extraction of valuable materials such as waste plastic and waste oil.

We use "zero emissions" as the indicator for the promotion of recycling undesired materials. Zero emissions represents an effort to reduce the landfill waste amount (J+K [next page])/undesired materials production volume A [next page] to 0.5% or less; the rate for the group overall in FY2015 was 0.06%, maintaining the same figure as in the previous year. At present, 66 of our domestic manufacturing sites have achieved zero emissions.

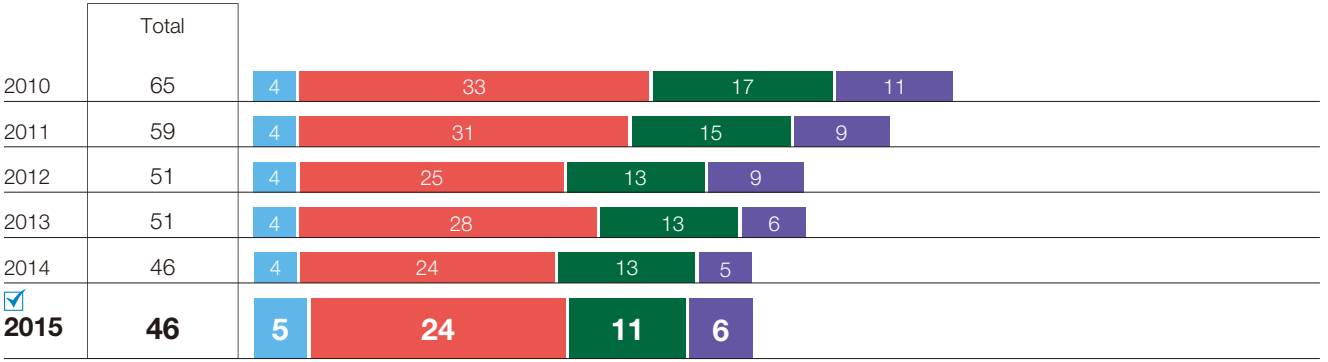
Production 21 Activities
We are working together as a group to strengthen our production capabilities and improve responsiveness to marketplace changes in order to realize the DNP Group Vision 2015. We are creating a manufacturing structure capable of constant improvement with sustainable strength to improve profitability and asset efficiencies in manufacturing.

From left: Information Communication, Lifestyle and Industrial Supplies, Electronics, Other

Undesired material generation (Unit: 1,000 tons)



Waste emissions (Unit: 1,000 tons)



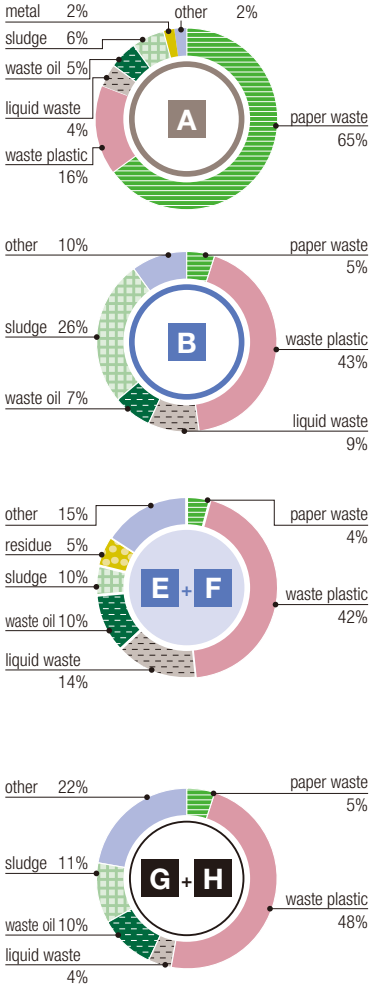
Breakdown of Generated Waste Volume

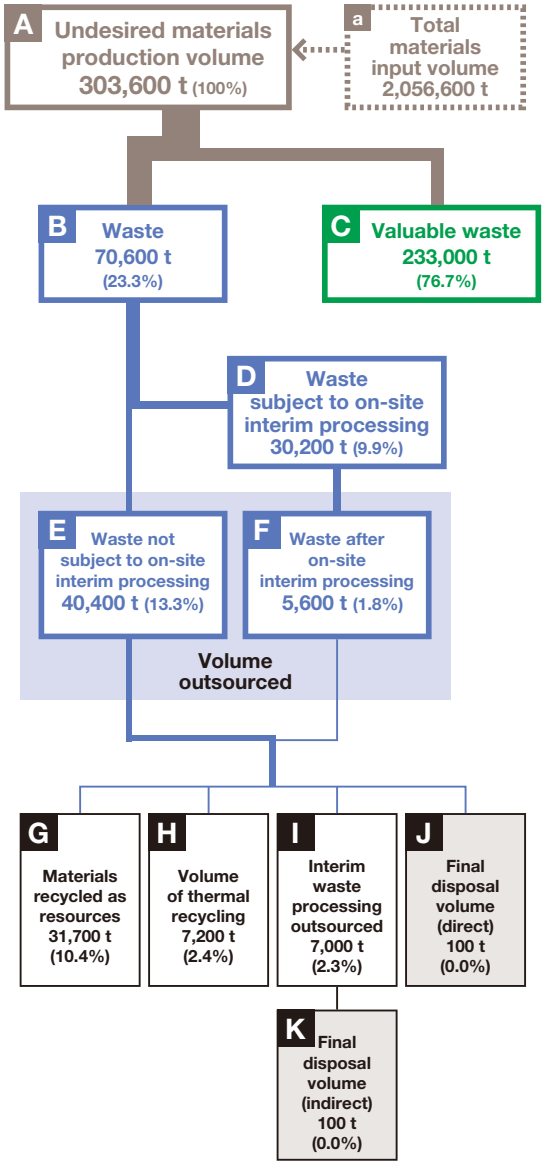
Sayama Plant No. 2, DNP Technopack

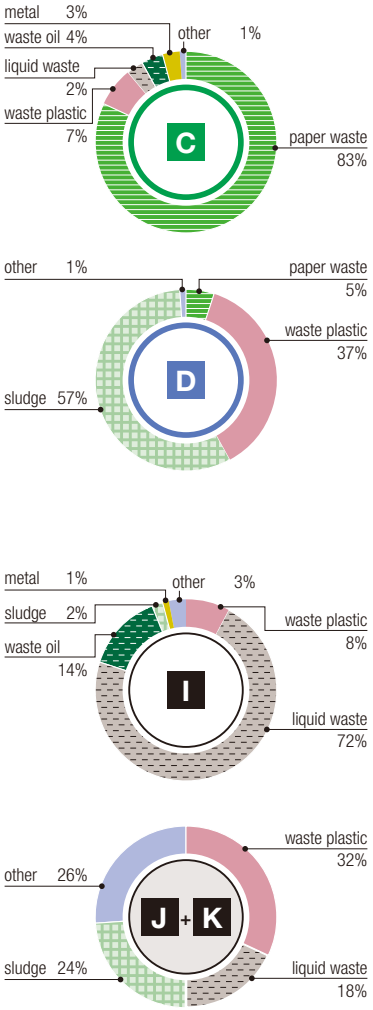
Shuichi Tsunoda,
General Affairs Dept.

DNP Technopack's Sayama Plant No.2 manufactures items familiar to everyone—paper cups for food and beverages.

The aim of the plant is to contribute to the advancement of the DNP Group and society by developing and manufacturing paper-based products. The plant's waste reduction initiatives began with setting a medium-term improvement plan based on an analysis of the current situation and the implementation of thorough sorting. Efforts have extended to the investigation of why certain things cannot be recycled and eliminating those causes. It is often said that "sorting creates resources and mixing creates garbage." In order to overcome obstacles to sorting in the physical environment, we assembled all office and floor workers together, including those from related on-site companies, to perform simulations and verifications. These activities allowed us to resolve key issues, leading to the sale of the recycled materials and the restructuring of the sorting/recovery channels. We have been able to reduce the final waste disposal amount by 90% from 2010 as the base year, representing an annual reduction of about 1,200 tons each year, successfully removing the plant from a government list of large-scale producers of industrial waste. We will continue reducing all forms of waste, pursuing zero emissions, and working to reduce loss as important environmental efforts to benefit society, while fulfilling our responsibility to supply products.







Use of Recycled Resources

• Office Paper Recycling

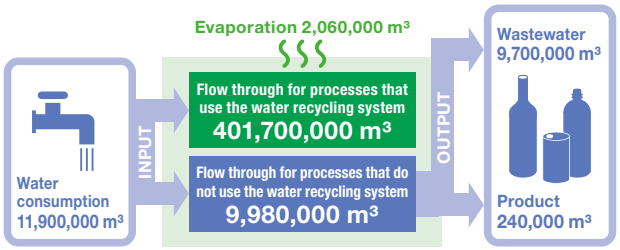
The business of the DNP Group is closely connected to paper, and we have been separating and collecting paper at our offices for some time. In FY2015, waste paper was collected at 62 of 172 eligible offices, primarily large-scale offices, for a recycling rate of 83.5%, exceeding our target of 70%.

• Use of Recycled Water

We are working hard to conserve water resources by promoting a closed-loop system in which water is recycled and reused instead of released. In this way we have been able to cut down on the high volume of water required for cleaning our products, air conditioning, and heating and cooling production machinery. We used 401.7 million cubic meters of recycled water in FY2015, about 35.0 times the amount of pipe water we used.

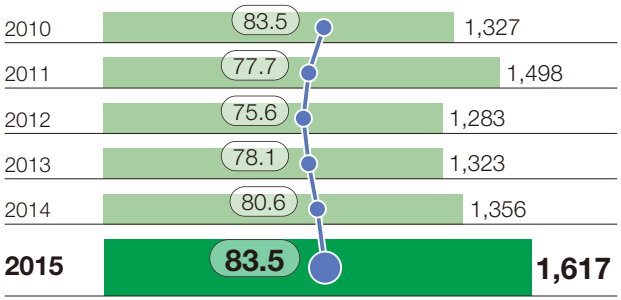
We are also making effective use of rainwater in our office buildings and other sites. In FY2015 we used 14,600 cubic meters of rainwater for toilet flushing and the watering of grounds.

Water Input-Output



Note: Hokkaido Coca-Cola Bottling and DNP Fine Chemicals use water in products.

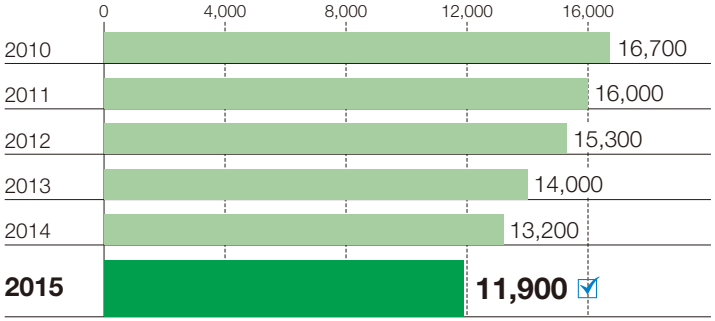
Amount of waste paper collected (Unit: tons) Bar graph
Used paper collection rate (Unit: %) Line graph



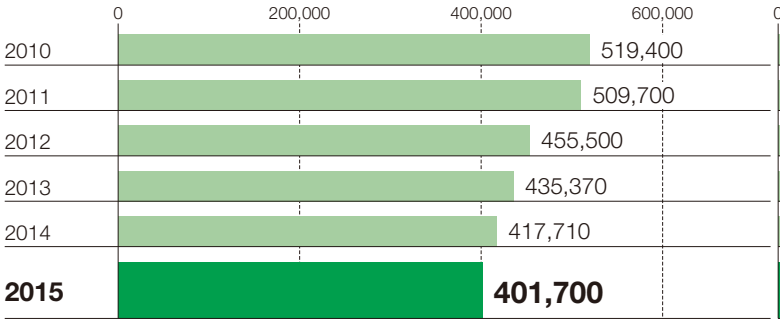
	Waste paper collection				General waste	Waste paper collection + general waste amount	Number of sites
	Cardboard	Magazines	Newspapers	High quality paper			
	336	874	29	88	262	1,589	34
	337	995	38	129	431	1,929	49
	225	886	37	135	413	1,696	55
	235	919	33	136	370	1,693	58
	182	1,003	30	141	326	1,682	60
2015	**204**	**1,234**	**29**	**150**	**320**	**1,937**	**62**

Waste paper collection: Waste paper collection/{waste paper collection + general waste amount (excluding cans, bottles, and garbage)} × 100

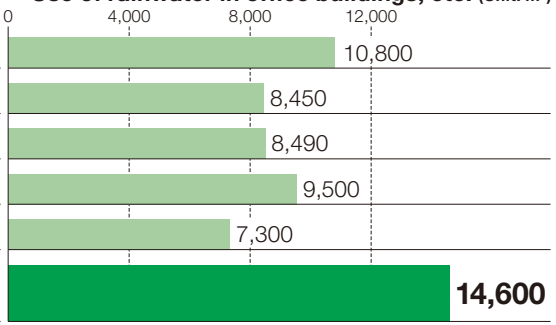
Domestic water use (Unit: 1,000 m³)



Recycled water use (Unit: 1,000 m³)



Use of rainwater in office buildings, etc. (Unit: m³)



Recycled water: The total volume of water that flows through the heat exchange or cleaning equipment in our closed-cycle system in one year.

Environmentally Conscious Materials Procurement and Products

• Promoting Green Purchasing

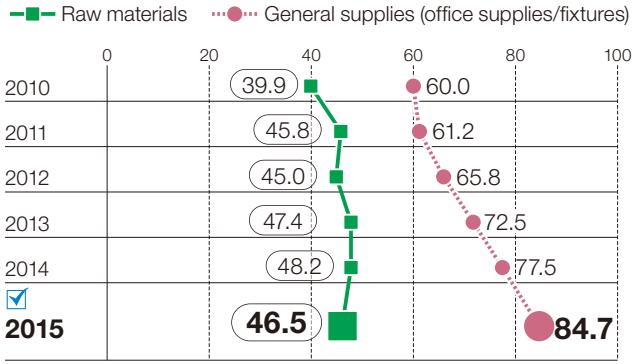
We carry out “green purchasing” to reduce the environmental impact of DNP’s product manufacturing processes. Green purchasing involves selecting and buying the most environmentally conscious materials, parts, equipment, office supplies, and other items—from the upstream production processes forward. We also give priority in materials and equipment purchasing to suppliers that take an aggressive approach to environmental conservation.

• Management of Chemical Substances in Products and Materials

The RoHS Directive and REACH Regulations adopted by the EU are examples of tougher regulations on chemical substances in products that call upon companies to properly ascertain and control the substances contained in raw materials and products throughout the entire supply chain.

To meet these strict regulations, DNP put into operation a management system in accordance with standards issued by JIS and the JAMP Guidelines for the Management of Chemical Substances in Products.

We will continue to work in conjunction with clients and suppliers to strengthen management of chemicals in products.



Note: Aggregate calculation of data for 44 sites under the direction of the DNP Purchasing Division.

RoHS Directive
Directive on the restriction of the use of certain hazardous substances in computers, communications equipment, home electronics, and other electrical and electronic equipment.

REACH Regulations
Regulations for managing chemical substances and their use designed to protect people’s health and the environment.

JAMP (Joint Article Management Promotion-consortium)
This organization promotes cross-industry action aimed at creating and spreading the use of a framework for properly managing information on chemicals contained in products and for easily disclosing and transmitting that information through supply chains.

Environmentally Conscious Products and Services

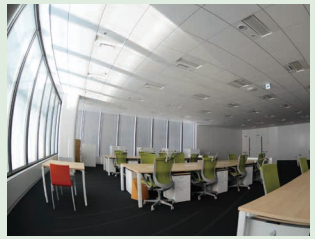
DNP's Environmentally Conscious Products and Services

At DNP we have created the Environmentally Conscious Products and Services Development Guidelines to direct from the design stage the creation of environmentally conscious products, so as to reduce the environmental impact of our products throughout their lifecycle. To develop more eco-friendly products and services, in 2013 we introduced an in-house point rating system for products and services, according to which certain products earn the designation "Super Eco-Product" or "Eco-Product."

We aim to increase sales of environmentally conscious products and services and expand the number of Super Eco-Products we offer, as well as further reducing the environmental impact of our products and services in the future.

DNP Lighting Film

By simply applying to window glass, the film has an internal structure that reflects and disperses natural light coming in through a window toward the ceiling to brighten an entire room. Applied to north-facing windows with poor sunlight exposure, room brightness is doubled,*1 reducing energy consumption (electricity bill) for lighting by 13%.*2



*1 According to DNP testing: Maximum value from measurements taken between 9:00 a.m. and 6:00 p.m. on June 5, 2015
*2 According to DNP testing: Measurements taken between 9:00 a.m. and 6:00 p.m. on July 21, 2014

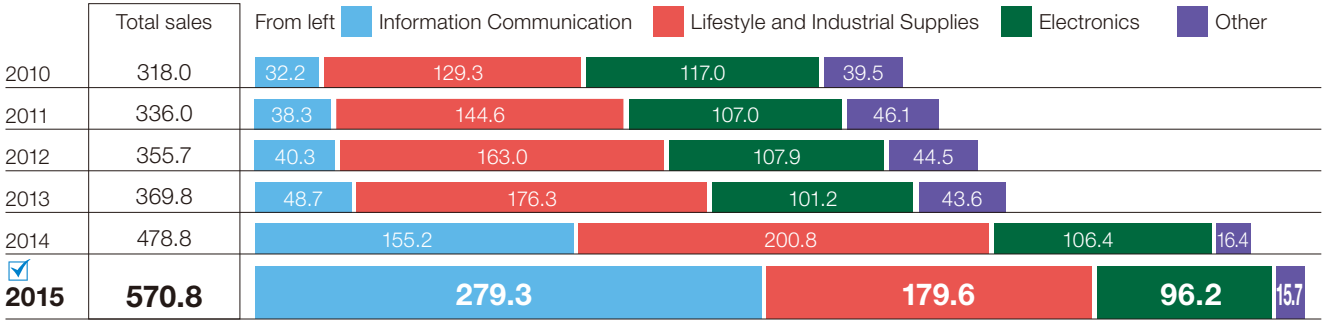
• Development and Sales of Environmentally Conscious Products and Services

Sales of environmentally conscious products and services reached 570.8 billion yen in FY2015 and have exceeded FY2015 targets.

Thirty-five products have so far been designated as Super Eco-Products as of March 2016. DNP intends to continue developing more of such environmentally conscious products and services.

Lifecycle
This covers every aspect of the lifetime of a product or service, from the point where the material resources that go into its manufacture are extracted from the Earth through production, distribution, use, and finally to when any waste is returned to the Earth.

Sales of environmentally conscious products and services (Unit: billion yen)

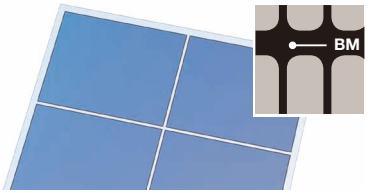


Guidelines for Developing Environmentally Conscious Products and Services with Example Products

1 Reduction of environmental pollutants

Elimination of ozone layer-damaging substances, heavy metals, volatile organic compounds, and prevention of release into the environment of nitrous oxides and other substances.

Example product • BM Color Filters



These are color filters using a black matrix (BM) made of resin instead of metal. Development of this product has resulted in reduced environmental impact and cost.

2 Resource and energy conservation, reduction of GHG emissions

Reduce the use of metals and fossil fuels. Promote energy-conserving products and systems.

Example product • Refill Pouch with Spout

Our Elbow Pouch is a refill-use pouch with improved opening and pouring features. It is useful in saving bottle resources, and post-refilling volume is reduced.

3 Sustainable use of resources

Utilize natural resources in a sustainable way.

Example product
• Biomass Plastic Packaging Material

These film products are made partially from plant-based materials. Their production and use will help reduce emissions of CO_2, a greenhouse gas, and the use of petroleum, a depleting natural resource.

4 Long-term usability

Consider the ease of repair and parts replacement, length of maintenance and repair service, and the expandability of functions.

Example product • Decorative Sheeting

Safmalle is our line of olefin-based decorative sheets for construction or decorative use, which meet the need for healthy, hygienic, and safe living space creation.

5 Reusability

In the case of sites and parts, considerations regarding disassembly, cleaning, and refilling; establishment of a collection and reuse system that is easy for the purchaser to use.

Example product • Peel-off Shipping Labels

These are shipping labels that are easily peeled off of packing paper or cardboard. The labels are one-ply, saving paper, and they make the recycling of cardboard and other packaging easy because they peel off cleanly.

6 Recyclability

Are the materials used in the product easy to recycle? Does the design allow for easy breakdown, disassembly, and separation of materials? Is there a collection and recycling system that is easy for the purchaser to use?

Example product
• Environmentally Conscious Calendars

These calendars are made with recycled paper and low environmental impact ink. No metal or plastic need be removed post-use, because neither is used in their production.

7 Use of recycled materials, etc.

Use as many collected and recycled materials and parts as possible.

Example product
• Paper Carton Using Recycled Paper

These are printed materials that use composites of used paper, such as used magazines and newspapers. Not only do they require fewer paper resources, but the use of low environmental impact soy ink and non-VOC ink is increasing.

8 Ease of treatment and disposal

Attempt to place as little burden as possible on incinerator facilities and landfill sites.

Example product
• Transparent Vapor Deposition Film

This is a packaging-use clear cling film which cuts dioxin use because it is non-PVC. It is widely used in the packaging of food, toiletries, or daily items requiring a barrier.

9 Making environmental burden visible and taking into consideration biodiversity

Making visible any burden that should be reduced, and aiming to protect biodiversity.

Example product
• Ultra Lightweight Injection-Molded Cup

The lightest injection-molded cup in the industry. The Carbon Footprint (CFP) Mark was acquired for the cup as an intermediate product. The lightened weight directly conveys the reduced use of resin.

10 Supporting and promoting environment education and awareness

Helping to create a sustainable society.

Example product
• Energy-Saving Apps and Other Services

This smartphone app helps you to check the use of electricity in your home to raise awareness of saving electricity.

Environmental Label Certification

We have earned environmental labeling certification such as CoC (Chain of Custody) certification and the Japan Environment Association's Eco Mark. We are working to expand the sale of products with this labeling, so that their packaging and advertising can serve as means to educate consumers properly about the environmental aspects of our goods and services.

• Main Certification Acquisition Results

Eco Mark (Type 1 Environmental Label)	
This environmental label is attached to products recognized as having low environmental impact throughout their lifecycle, from production through disposal, and as being useful to environmental conservation.	**Acquired for mugs made of recycled plastic** **Received for "construction use album" using used paper**
CoC Certification	
CoC (Chain of Custody) This is a certificate of control throughout each stage of processing and distribution, by which wood products and materials (including paper products) taken from FSC-certified forests contain a fixed percentage or greater of certified material, and have no wood products or materials derived from illegally harvested sources mixed in.	**Acquired by a total of 12 business units**

Environmental Labeling

Environmental Labeling: This is broadly divided into three types: Type 1, such as the Eco Mark (third party certification); Type 2, in which a company itself makes the declaration (self-declaration); and Type 3, in which environmental information is provided on the label, such as the EcoLeaf (environmental information labeling), with each having specifications under ISO or JIS. Reference information: "Environmental Labeling Database" of the Central Environment Council of the Ministry of the Environment

CoC Certification

Certification Type	Acquired by*1	Acquisition Date*2	Registration Organization
FSC-CoC	DNP Trading	Dec. 03	SGS
	Packaging Operations	Dec. 05	SGS
	Ichigaya Publication Printing Operations	Mar. 06	SGS
	DNP Multi Print	Apr. 07	SGS
	Tien Wah Press (Pte.) Ltd.	May 08	DNV
	Information Solutions Operations	Aug. 08	SGS
	Lifestyle Materials Operations	Aug. 09	SGS
	DNP Shikoku	Dec. 11	SGS
	DNP SP Tech	May 14	JIA
PEFC-CoC	Packaging Operations	Jan. 04	JIA
	DNP Trading	Jan. 08	SGS
	Ichigaya Publication Printing Operations	Mar. 11	SGS
	Lifestyle Materials Operations	Nov. 11	SGS

FSC
Forest Stewardship Council

PEFC
Programme for the Endorsement of Forest Certification Schemes

SGS
SGS Japan

DNV
Det Norske Veritas (Norway)

JIA
Japan Gas Appliances Association

*1 Organizations and the names used for them as of March 31, 2016.
*2 Date of initial registration. However, this is the date that Information Solutions Operations (August 2003) switched to multisite certification.

Biodiversity Efforts

At DNP we understand that we gain many benefits from ecosystems that are supported by abundant biodiversity, and we believe that working to coexist harmoniously and protect the environment is essential for the company to maintain sustainable growth. Based on this way of thinking, we work to protect biodiversity through our business activities.

In every process, including but not limited to product development, material procurement, manufacturing, sales, transport, product use, and disposal of waste, we have examined the relationship to biodiversity. We established two key themes, both of which affect our reliance on ecosystem services and seriously impact biodiversity—the improvement of material procurement practices and the creation of green spaces at our business sites.

Material Procurement

• Guidelines for Procurement of Paper for Printing and Converting

Paper is a principal raw material essential to the ongoing continuation of DNP's business operations. We are committed to the conservation of forest resources and effective use of raw materials. To this end, we actively encourage use of products made using timber from thinned trees and FSC-certified paper. We are aiming for 100% conformity to our Guidelines for Procurement of Paper for Printing and Converting for all raw material paper products. We are also strengthening our communication with paper manufacturers, sales companies, and other suppliers in an effort to assure traceability.

Creation of Green Spaces at Business Sites

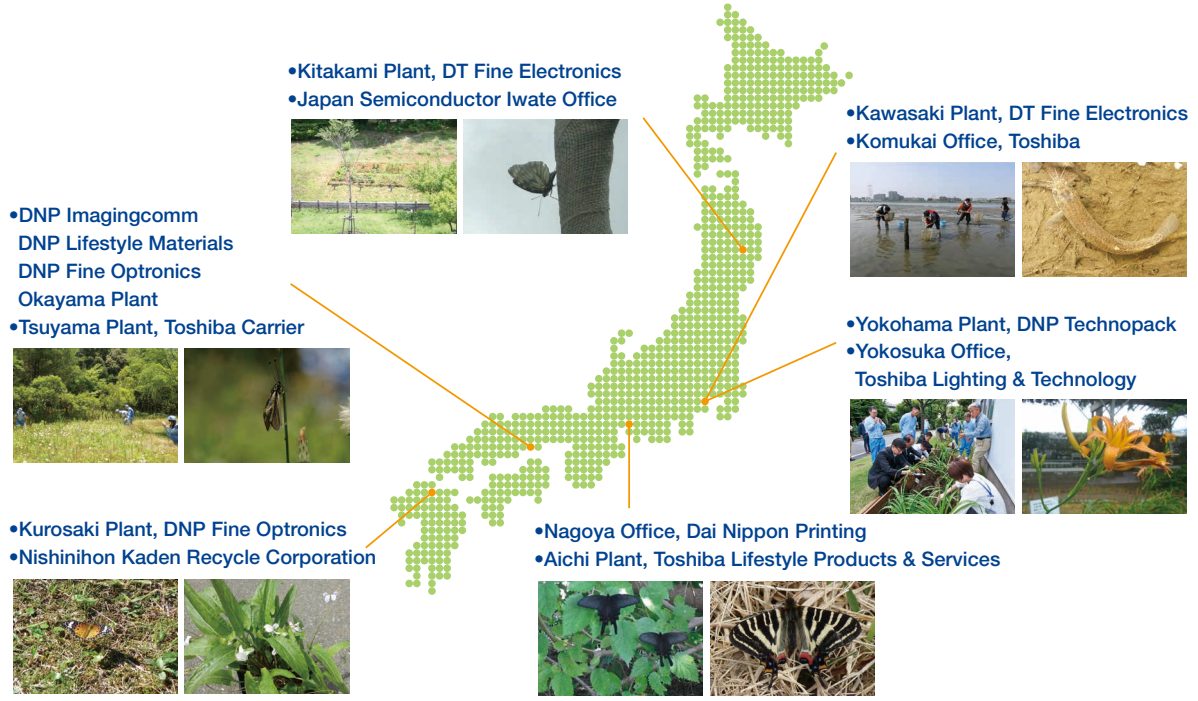
• Creating Green Spaces to Broaden the Diversity of Life in the Local Area

The land use and site management of plants and offices affect a region's ecosystem, but they can also contribute to improving the quality and sustainable use of ecosystem services.

The DNP Group creates green spaces at business sites for the benefit of wildlife in the local area. Plant and wildlife surveys will also be conducted at business sites to improve their green spaces, to select suitable plants and trees, and to update maintenance practices. These surveys will be used in creating green spaces that promote biodiversity at our business sites.

Six Biodiversity Locations in Tie-up with Toshiba

DNP is carrying out biodiversity protection in conjunction with the Toshiba Group at 12 business sites across six locations throughout Japan. We are utilizing these business sites to create green spaces for wildlife that take advantage of the natural characteristics of each location; we can thus protect rare species, perform wildlife surveys, and conduct nature tours.



Joint Activities between DNP Technopack's Yokohama Plant and Toshiba Lighting & Technology's Yokosuka Plant

DNP Technopack's Yokohama Plant, in conjunction with Toshiba Lighting & Technology's Yokosuka Plant, is working to protect the *Hemerocallis littorea*, a daylily, outside its natural habitat.

Toshiba Lighting & Technology is working to protect this species of daylily outside its natural habitat from devastation in its natural habitat in the Koajiro Forest on the Miura Peninsula due to high tides and illegal digging. In June 2015 the companies joined together under the guidance of Yuji Kishi, representative director of the NPOs Tsurumi River Basin Networking (TR Net) and the Koajiro Outdoor Activities Coordination Council, to transplant daylily bulbs to a garden at DNP Technopack's Yokohama Plant. The joint efforts to protect and cultivate the daylilies will be ongoing, with the goal of returning them to the Koajiro Forest.

Participants from both companies replanting

Hemerocallis littorea in bloom

Initial 30 plants have increased to 113

Ichigaya Forest

DNP is pursuing a plan to restore the Ichigaya Forest that once existed on the land now occupied by the company's head office in Ichigaya, Tokyo. The forest will be a re-cultivation of the mixed-tree thickets of the Musashino Woods.

The aim is to create beautiful scenery as the foliage of the trees turn color in the autumn, drop off, and are renewed every spring with verdant green.

Target and Calculation Items

Targets

1. As an environmental management tool for the DNP Group

(1) To evaluate and confirm the effectiveness of environmental conservation activities
(2) To determine the cost of and investment in individual conservation measures and the Group's overall environmental activities
(3) To monitor and evaluate the effects and achievements of activities performed throughout the year to ensure continuous improvement in our environmental performance

2. As a tool for communicating with society

(1) To publicly announce the cost-benefit relationship of environmental conservation efforts
(2) To reflect the opinions of shareholders, business partners, local residents, and others in environmental conservation activities

Environmental Accounting Calculation Standards

(1) Period covered: April 1, 2015 through March 31, 2016 (Environmental facilities are those considered as of March 31, 2016)

(2) Scope of coverage: At DNP and among its domestic group companies subject to consolidated financial accounting, 26 domestic manufacturers and one distribution company (p. 41, 42), plus non-manufacturing sites (three development centers, office buildings, sales offices, etc.). However, newly built plants are included in the capital investment.

(3) Monetary unit: All monetary figures are expressed in millions of yen, rounded off to the nearest million.

(4) Announcement format: We used the format designated in the Ministry of the Environment "Environmental Accounting Guideline" 2005 edition.

(5) Standards for calculation of environmental conservation costs

1) Environmental conservation costs include depreciation expenses for investments.
2) Personnel costs for full-time workers were calculated at the average labor cost per person, while personnel costs for workers holding two or more posts were calculated at 1/10 or 1/5 the average personnel cost per person, depending on the worker's assigned duty.
3) R&D costs are the total costs incurred by our three R&D centers and development departments within each operations field in the development of environmentally conscious products and manufacturing equipment.

(6) Standards for calculation of environmental conservation benefits

1) DNP uses energy consumption per unit of sales as an efficiency indicator for the volume of resources (energy and water) spent on business activities, as well as for the volume of waste materials and CO_2 emissions.
2) Benefits apply to all volatile organic compounds (VOCs), including chemical substances subject to the PRTR Law among the atmospheric environmental pollutant emissions volume corresponding to business area costs.
3) The benefit related to goods produced by business activities was reduction of the volume of greenhouse gases emitted from all products shipped. Specifically, of the GHG emissions calculated according to the Scope 3 standards listed on p. 19, the categories used were: part of Category 4 (Upstream transportation & distribution), Category 9 (Downstream transportation & distribution), Category 10 (Processing of sold products), Category 11 (Use of sold products), and Category 12 (End of life treatment of sold products).
4) The benefit corresponding to the transportation environmental impact is converted to the energy usage reduction benefit to the shipper at the time the goods, etc., are transported.

(7) Standards for calculation of economic benefit of environmental conservation activities

1) The benefit corresponding to resource circulation costs is calculated as the benefit from savings on waste disposal costs. The amount of reduction is calculated as follows: (Benchmark period unit consumption – unit consumption for current period) × amount of business activity for current period.
2) Amount of business activity is based on domestic consolidated sales.
3) Unit consumption is calculated as: waste disposal cost / domestic consolidated sales.
4) The benchmark period unit consumption is the gross average value for the three-year period up to and including the previous term.

Table (1) Environmental Conservation Costs (categories corresponding to business activities)

Category	Investment		Expense		Details of major efforts	Page(s) on which data is listed
	FY2014	☑FY2015	FY2014	☑FY2015		
(1) Business area costs						
1) Pollution prevention costs	634	**611**	2,057	**2,023**	VOC collection and disposal equipment, wastewater treatment facility	23-25
2) Global environmental conservation costs	256	**463**	395	**374**	Introduction of solar power generation equipment, conversion to inverters, waste heat recovery, switching to energy-saving lighting	20-22
3) Resource circulation costs	92	**141**	1,595	**1,620**	Furnace improvements, separation recycling, zero emissions (conversion to RPF/cement ingredients), resource recycling	26-28
(Total business area costs)	982	**1,215**	4,047	**4,017**		
(2) Up/downstream costs	0	**0**	119	**108**	Container and packaging recycling expense burden, recycling system development	30-32
(3) Administration costs	3	**0**	2,183	**2,206**	ISO 14001 inspection and registration costs, environmental education costs, environmental report composition costs	8-14, 32, 44
(4) R&D costs	0	**0**	2,718	**2,084**	Research and development into environmentally conscious products and production methods	29-31
(5) Social activities costs	0	**0**	14	**14**	Environmental conservation of areas outside plant compounds, biodiversity conservation, support for activities of environmental conservation groups	33-34
(6) Environmental remediation	0	**0**	0	**0**		9-12
Total	985	**1,215**	9,081	**8,430**		

● Environmental conservation costs to total costs ratio

Category	Consolidated total costs	Costs	Ratio	Details of major environmental conservation costs	Page(s) on which data is listed
Investment of current period	97,200	1,215	1.25%	Introduction of solar power generation equipment, conversion to inverters, etc.	20
R&D cost of current period	31,826	2,084	6.55%	Development of photovoltaic and fuel cell parts, development of products free of toxic substances, process loss reduction, etc.	29-31

FY2015 Assessments of Performance Data of Environmental Accounting

Environmental Conservation Costs and Environmental Conservation Measures

(1) The amount of capital invested in equipment to conserve the environment was increased from the previous fiscal year with the renewal of solar power generation equipment, VOC treatment facilities and energy-saving equipment.

(2) Expenses were reduced from the previous fiscal year owing to a review of development themes.

Table (2) Environmental Conservation Benefits (1)

(1) Environmental conservation benefit related to resources input into business activities

Category of environmental conservation benefit	Category of indicator showing benefit	Indicator values			Remarks	Page(s) on which data is listed
		FY2014	**FY2015** ☑	Difference		
1) Benefit arising from supplied resources						
Total energy input volume	Energy consumption (TJ)	19,770	**19,000***	-770		20-22
	Unit consumption per domestic sales for the above (TJ/billion yen)	16.0	**16.2**	0.2	Energy consumed per billion yen of domestic sales	20-22
Input volume of water	Water usage (1,000 m^3)	13,200	**11,900**	-1,300		28
	Unit consumption per domestic sales for the above (1,000 m^3/billion yen)	10.7	**9.7**	-1.0	Water usage per billion yen of domestic sales	28
Input volume of main raw materials	Supplied amount (1,000 tons)	2,098	**2,057**	-41		27
	Amount of undesired materials generated/ supplied (%)	15.0	**14.8**	-0.2	Ratio of unwanted materials to main raw materials	27
2) Environmental conservation benefit related to waste or environmental impact originating from business activities						
Emissions to the air	SOx emissions (tons)	11	**6.7**	-4.3		17, 23
	NOx emissions (tons)	657	**657**	0		17, 23
	Environmental pollutant emissions volume (tons)	4,757	**4,581**	-176	VOC emissions volume	23
Water quality	COD discharge (tons)	34.7	**34.7**	0		17, 24
	Emissions of environmental pollutants (PRTR-listed substances) (tons)	0.0	**0.0**	0	There have been no emissions into public waters since FY2010	25
Waste emission volume	Generated undesired materials (1,000 tons)	314	**304**	-10	Including undesired materials other than main raw materials	26-27
	Discharged waste (1,000 tons)	46.4	**45.9**	-0.5		26-27
	Unit consumption per domestic sales for the above (tons/billion yen)	37.7	**37.6**	-0.1	Discharged waste per billion yen of domestic sales	26-27
	Recycle rate (%)	99.8	**99.6**	-0.2	By category: paper (100%), waste plastics (99.5%), metals (99.5%), and glass (98.1%)	26-27
	Emissions of environmental pollutants (PRTR-listed substances) (tons)	960	**840**	-120	Total for 28 substances reported	25
Volume of greenhouse gas emission	Emissions of greenhouse gases (1,000 t-CO_2)	924	**888**	-36		20-21
	Unit consumption per domestic sales for the above (tons/billion yen)	750	**730**	-20	Emissions per billion yen of domestic sales	20-21

*Corrected from 19,770 TJ in October 2016.

Table (2) Environmental Conservation Benefits (2) (3)

(2) Environmental conservation benefit related to goods and services produced by business activities

Category of environmental conservation benefit	Category of indicator showing benefit	Indicator values			Remarks	Page(s) on which data is listed
		FY2014	**FY2015** ☑	Difference		
1) Benefit related to goods produced by business activities						
CO_2 emissions after product shipment	CO_2 emissions (1,000 t-CO_2)	1,539	**1,513**	-26		19, 29-32
	CO_2 emissions / domestic sales (1,000 t-CO_2/billion yen)	1.25	**1.24**	-0.01	CO_2 emissions per billion yen of domestic sales	19, 29-32

(3) Other environmental conservation benefit

Category of indicator showing benefit	FY2014	**FY2015** ☑	Difference	Remarks	Page(s) on which data is listed
Benefit related to the environmental impact of transportation					
Energy usage amount during shipment of goods (kl)	22,180	**21,840**	-340		16, 22
Energy usage amount during transport / gross sales (kl/billion yen)	15.2	**15.0**	-0.2	Energy usage amount per billion yen of consolidated sales	16, 22

Table (3) Economic Benefits of Environmental Conservation Activities

Economic benefits of environmental conservation activities	Amount			Remarks	Page(s) on which data is listed
	FY2014	**FY2015** ☑	Difference		
(1) Increased sales **1) Economic benefit of R&D costs**					
Sales of environmentally conscious products	478,800	**570,800**	92,000	19% year-on-year increase in sales of environmentally conscious products	16, 30-32
(2) Increased income **2) Benefit of resource recycling costs**					
Income from recycling undesired materials	3,193	**3,056**	-137	Shift toward valuable materials such as waste plastics, etc.	26-27
(3) Cost saving **3) Benefit of resource recycling costs**					
Saving disposal costs by resource conservation	107	**-8**	-115	Worsened unit consumption owing to reduced amounts of valuable materials and stagnant domestic sales prices	26-27

FY2015 Assessments of Performance Data of Environmental Accounting

Environmental Conservation Benefits

(1) Water usage and greenhouse gas emissions were again reduced from the previous year thanks to energy-saving and water-saving efforts and the effects of factory streamlining. This resulted in an improvement in unit consumption.

(2) Emissions of VOCs into the air were reduced from the previous year as a result of renewal and continued maintenance of VOC collection and removal equipment and reductions in solvent use amounts. Waste emissions fell due to greater conversion into valuable materials, resulting in an improvement in unit consumption over the previous year. Amounts of undesired materials generated and materials input worsened owing to changes in product composition.

(3) Regarding the benefits related to goods produced by business activities, increased transport efficiency resulted in an improvement in unit consumption. Environmental burden from transport was also reined in.

Economic Benefits of Environmental Conservation Activities

(1) Sales of environmentally conscious products gained 92.0 billion yen year-on-year, reaching 570.8 billion yen and surpassing the FY2015 sales target of 400 billion yen.

(2) Business income from recycling undesired materials fell from the previous fiscal year due to worsening of the market environment. Consequentially, the economic benefits calculated according to the basis outlined in (7) of the “Environmental Accounting Calculation Bases” on p. 35, i.e. “saving disposal costs by resource conservation,” were negative.

Ongoing Efforts

(1) Make further improvements in eco-efficiency through Production 21 Activities.

(2) Improve the use ratio of recyclable energy while systematically promoting replacement with energy-saving equipment to reduce greenhouse gas emissions.

Results of Efforts

FY1972	Establishes the Environment Department within the head office to promote pollution prevention measures and communication with local residents
FY1990	Makes new efforts to deal with global environmental issues by establishing the Eco-Plan Promotion Office within the Environment Division
FY1992	Establishes the DNP Group Corporate Pledge and Code of Conduct for DNP Group Employees
	Establishes the Eco-Plan Promotion Targets, the elaborated voluntary plan based on the Environmental Declaration of the Code of Conduct, and starts activities by 4 sub-committees
FY1993	Starts the Eco-Report System, which is part of the DNP Group's environmental management system
FY1994	Remodels and expands the Environment Department into the Environment & Product Liability Department to strengthen our efforts toward environmental issues, including taking responsibility for the disposal of products we produce
FY1995	DNP wins the International Trade and Industry Minister's Prize in the "4th Grand Prize for the Global Environment Award," which commends companies and groups that contribute to the conservation of the global environment (The award was established in 1991 by the Japan Industrial Journal and the Fuji Sankei Communications Group, with special support by WWF Japan and sponsorship by the Ministry of the Environment, the Ministry of Economy, Trade and Industry, and the Japan Federation of Economic Organizations)
FY1996	Begins performing Eco-Audits, the internal environmental audit performed by the Eco-Plan Promotion Office to upgrade the Eco-Report System
FY1997	Okayama Plant, Information Media Supplies Operations becomes the first in the printing industry to acquire ISO 14001 certification
FY1998	Mihara Plant, Display Components Operations acquires ISO 14001 certification
	Publishes the DNP Group Environmental Activity Report
FY2000	The Eco-Plan Promotion Office is dismantled and replaced with the DNP Environmental Committee to strengthen the system for promoting environmental activities
	DNP Facility Services becomes the first in the world to be certified for its comprehensive system with quality, environment, office safety, and HACCP
	Okayama Plant, Decorative Interiors Operations acquires ISO 14001 certification
FY2001	DNP Tokai, and Sayama Plant, DNP Technopack acquire ISO 14001 certification
FY2002	DNP Tokai acquires FSC-CoC certification
	Acquisition of ISO 14001 certification by: Kobe Plant, Decorative Interiors Operations; The Inctec (Tokyo, Kansai, and Utsunomiya Plants); Ushiku Plant, BF Operations; DNP Technopack Tokai; Singapore Plant, Tien Wah Press; Chikugo Plant, DNP Nishi Nippon; Kyoto Plant, Electronics Devices Operations; Sayama Plant, Information Media Supplies Operations; Ono Plant, DNP Media Create Kansai
FY2003	Environmental Report Division receives the "6th Environmental Report Grand Prize" for superior reporting
	Acquisition of ISO 14001 certification by: Advanced Colortech; Tokyo Plant, Decorative Interiors Operations; Kamifukuoka Plant, Electronics Devices Operations
	Commercial Printing Operations, DNP Media Create Kansai, and DNP Trading acquire FSC-CoC certification, Packaging Operations acquires PEFC-CoC certification
	Two types of fused thermal transfer materials of the Information Media Supplies Operations receive EPD "Type III" environmental labeling certification and registration
FY2004	DNP wins the Minister for the Environment's Prize in the "14th Grand Prize for the Global Environment Award"
	The "7th Environmental Report Prize" awarded for excellence
	Fukuoka Plant, DNP Nishi Nippon; DNP Logistics; DNP Ellio (Tokyo and Osaka Plants); and Warabi Plant, BF Operations acquire ISO 14001 certification
	Eco-Report System implemented at overseas sites
FY2005	"8th Environmental Report Prize / Sustainability Report Prize" awarded for excellence
	DNP Data Techno Kansai; Johor Bahru Plant, Tien Wah Press; Otone Plant, Display Products Operations; and DNP Techno Polymer (Kashiwa and Kansai Plants) acquire ISO 14001 certification
	Ichigaya Publication Printing Operations; DNP Tohoku; and Yokohama Plant, Packaging Operations acquire FSC-CoC certification, DNP Tokai acquires PEFC-CoC certification
FY2006	DNP Photomask Europe; Akabane Office, DNP Logistics; DNP Techno Film (Kashiwa Plant and Izumizaki Plant); and DNP IMS Odawara acquire ISO 14001 certification
FY2007	"PRTR 2007 Awards" PRTR Honorable Mention (Tsuruse Plant)
	DNP Gotanda Building wins the "Green Grand Prize" in the Shinagawa-ku "Green Award System"
	DNP Technopack Yokohama (Yokohama Plant) and DNP Fine Chemicals acquire ISO 14001 certification
	DNP Hokkaido and DNP Data Techno Kansai acquire FSC-CoC certification, DNP Hokkaido and DNP Trading acquire PEFC-CoC certification
FY2008	Izumizaki Plant, DNP Technopack; Kasaoka Plant, DNP Fine Chemicals; Okayama Plant, Opto-Materials Operations acquire ISO 14001 certification
	IPS Operations and DNP Media Create Kansai acquire PEFC-CoC certification
FY2009	Mihara Plant, Opto-Materials Operations; DNP Indonesia (Pulo Gadung / Karawang); Kyoto Plant, Electronic Devices Operations; and Shiga Plant, Information Media Supplies Operations acquire ISO 14001 certification
	Kanto Bureau of Economy, Trade and Industry "Energy Management In Business Superiority Award" (received by Akabane Plant, Commercial Printing Operations)
	Lifestyle Materials Operations acquires FSC-CoC certification
FY2010	DNP IMS Odawara receives the Kanagawa Prefecture Environmental Conservation (Air, Water, Soil) Award
	Revision of DNP Group Environmental Targets
	The DNP Emergent Evolution Forest Hakone Training Center 2 acquires Green Key certification
FY2011	DNP's independently developed Energy-Saving Total Management System is implemented at 36 Tokyo Electric Power locations
	New, leading-edge environmentally conscious plant for manufacturing flexible packaging is built in Kyotanabe
	DNP Chubu becomes Ecostage-certified (Stage 1)
	Sayama Plant, DNP Technopack Yokohama acquires ISO 14001 certification
	DNP Shikoku acquires FSC-CoC certification and Lifestyle Materials Operations acquires PEFC-CoC certification
	Reductions in power consumption in the processes of manufacturing photomasks earns DNP the Energy Conservation Grand Prize for excellent energy conservation equipment, Jury's Special Prize awarded by the Energy Conservation Center, Japan (ECCJ)
FY2012	Guidelines for Procurement of Paper for Printing and Converting are established to protect biodiversity in our business operations, and projects to create green spaces are launched at Okayama Plant and DNP Chubu business sites
	Volume of greenhouse gas emissions are announced according to Scope 3 standards
FY2013	Targets for reduction of water usage are set
	Green Procurement Guidelines for Chemical Substances are set and management of chemical substances in products is strengthened
FY2014	Climate change prevention targets for FY2030 are set
	DNP is selected by CDP's Forest Program as sector leader in the Industrials & Autos sector
	DNP wins a "Prize of Excellence (Judge's Prize)" at the 18th Environmental Communication Awards
FY2015	DNP Group environmental targets are revised
	CDP places DNP on its "A List"
	DNP wins a "Prize of Excellence (Judge's Prize)" at the 19th Environmental Communication Awards

Note: Organizations and the names used for them as of that time.

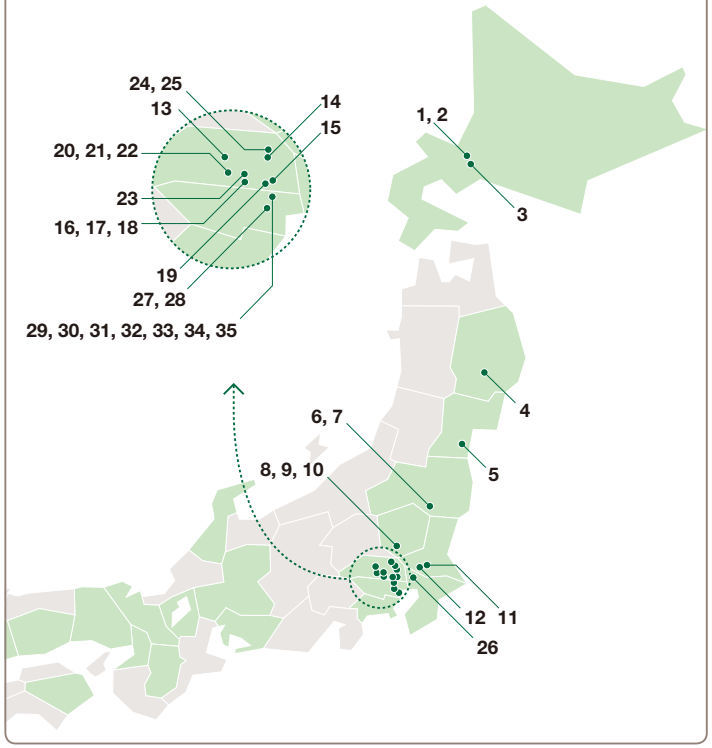
Domestic manufacturing sites with required business performance data disclosure (1)

Organizations and the names used for them are current as of March 31, 2016.

Applies to DNP and non-manufacturing sites of all domestic companies in the group that are subject to consolidated financial accounting.

Business segments

●	**Information Communication**	"Other" refers to products that do not fall under the three segments or group companies manufacturing products that span multiple segments.
▲	**Lifestyle and Industrial Supplies**	
■	**Electronics**	
□	**Other**	



Location		No.	Business segment	Site	Work content
Hokkaido	Higashi-ku, Sapporo	1	●	Sapporo Plant, DNP Graphica Sapporo Plant, DNP Data Techno	Printing / bookbinding
	Higashi-ku, Sapporo	2	▲	Sapporo Plant, DNP Technopack	Manufacturing of packaging
	Kiyota-ku, Sapporo	3	□	Sapporo Plant, Hokkaido Coca-Cola Products	Beverage manufacturing
Iwate	Kitakami	4	■	Kitakami Plant, DT Fine Electronics	Manufacturing of electronic precision parts
Miyagi	Miyagino-ku, Sendai	5	●	Sendai Plant, DNP Graphica	Plate-making / printing / bookbinding
Fukushima	Izumizaki, Nishi Shirakawa	6	▲	Izumizaki Plant, DNP Technopack	Manufacturing of packaging
		7	▲	Izumizaki Plant, DNP High-performance Materials	Manufacturing of solar cell filler
Tochigi	Tochigi	8	●	Utsunomiya Plant, DNP Graphica	Printing / bookbinding
		9	▲	Utsunomiya Plant, DNP Technopack	Manufacturing of packaging
		10	□	DNP Fine Chemicals Utsunomiya	Manufacturing of photographic materials and pharmaceuticals
Ibaraki	Ushiku	11	●	Ushiku Plant, DNP Data Techno	Manufacturing of various types of smart cards
	Tsukuba	12	□	Tsukuba Techno Center, D.N.K.	Manufacturing of printing machines and machine tools
Saitama	Higashimatsuyama	13	●	Higashimatsuyama Plant, Oguchi Book Binding & Printing	Bookbinding
	Shiraoka	14	●	Shiraoka Plant, DNP Book Factory	Printing / bookbinding
	Kawaguchi	15	●	Kawaguchi Plant, DNP Book Factory	Printing
	Miyoshi, Iruma	16	●	Tsuruse Plant, Publication Printing Operations*1	Plate-making / printing plate / printing / bookbinding
		17	▲	Tokyo Plant, DNP Lifestyle Materials	Plate-making / printing plate / printing / processing
		18	●	Miyoshi Plant, Oguchi Book Binding & Printing	Bookbinding
	Warabi	19	●	Warabi Plant, DNP Data Techno	Plate-making / printing / processing
	Sayama	20	▲	Sayama Plant No.1, DNP Technopack	Manufacturing of packaging
		21	▲	Sayama Plant No.2, DNP Technopack	Manufacturing of packaging
		22	●	Sayama Plant, DNP IMS*2	Manufacturing of thermal transfer carbon ribbons and dye-sublimation transfer materials
	Fujimino	23	■	Kamifukuoka Plant, DNP Fine Optronics	Manufacturing of electronic precision parts
	Kuki	24	●	Kuki Plant, Publication Printing Operations*1	Printing plate / printing / bookbinding
		25	■	Saitama Plant, DNP High-performance Materials	Manufacturing of electronic parts
Chiba	Kashiwa	26	▲	Kashiwa Plant, DNP Technopack	Manufacturing of packaging
Tokyo	Shinjuku-ku	27	●	Ichigaya Plant, Publication Printing Operations*1	Plate-making / printing plate / printing / bookbinding
		28	●	Enoki-cho Plant, DNP Graphica	Plate-making / printing / bookbinding
	Kita-ku	29	□	Kamiya Plant, DNP SP Tech	Manufacturing of all types of advertising items
		30	●	Akabane Plant, DNP Book Factory	Printing
		31	●	Akabane Plant, DNP Graphica	Plate-making / printing / bookbinding
		32	●	Kamiya Plant, DNP Book Factory	Bookbinding
		33	□	DNP Logistics	Packaging / shipping
		34	▲	DNP Hoso*3	Processing filling and packaging
		35	●	Kamiya Plant, Information Solutions Operations	Printing / bookbinding / processing

*1 As of January 2015, Ichigaya Publication Printing Operations became Publication Printing Operations.
*2 As of April 2015, changed segment from Lifestyle and Industrial Supplies to Information Communication.
*3 As of April 2015, changed segment from Other to Lifestyle and Industrial Supplies.

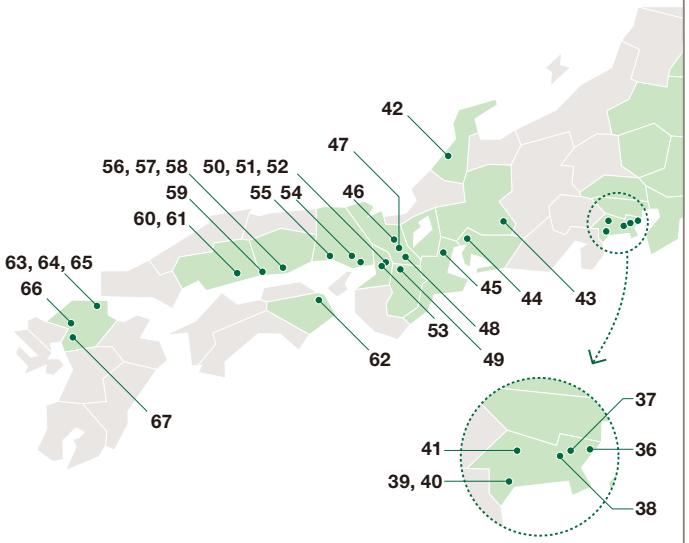
Domestic manufacturing sites with required business performance data disclosure (2)

Organizations and the names used for them are current as of March 31, 2016.

Applies to DNP and non-manufacturing sites of all domestic companies in the group that are subject to consolidated financial accounting.

Business segments

●	Information Communication	"Other" refers to products that do not fall under the three segments or group companies manufacturing products that span multiple segments.
▲	Lifestyle and Industrial Supplies	
■	Electronics	
□	Other	



- DNP Media Art calculated under the Ichigaya Plant.
- DNP Media Create calculated under the Enoki-cho Plant, Information Solutions Operations.
- DNP Total Process Warabi calculated under the Warabi Plant, Information Solutions Operations.
- DNP Micro Technica calculated under the Kamifukuoka Plant, DNP Fine Electronics.

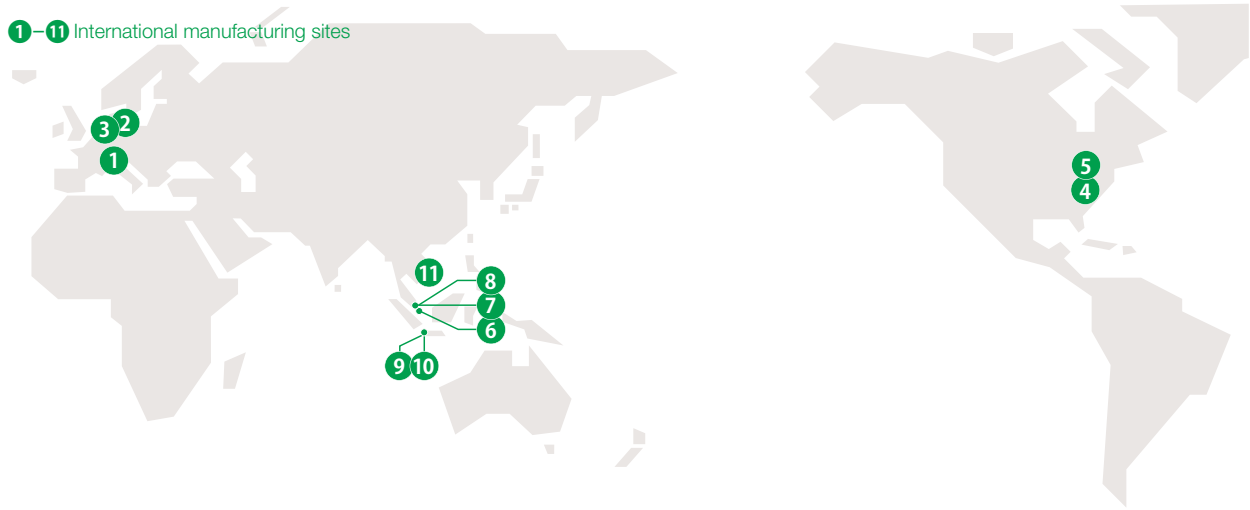
Location		No.	Business segment	Site	Work content
Kanagawa	Kawasaki	36	■	Kawasaki Plant, DT Fine Electronics	Manufacturing of electronic precision parts
	Tsuzuki-ku, Yokohama	37	▲	Yokohama Plant, DNP Technopack	Manufacturing of packaging
	Midori-ku, Yokohama	38	□	Tokyo Plant, DNP Fine Chemicals	Manufacturing of chemicals, etc.
	Odawara	39	▲	Sagami Yoki	Manufacturing of laminated tubes
		40	●	Odawara Plant, DNP Imagingcomm*1	Photographic materials manufacturing
	Aikawa, Aiko	41	▲	Tokyo Plant, DNP Ellio	Printing and processing metal sheets
Ishikawa	Hakusan	42	□	Hokuriku Techno Center, D.N.K.	Manufacturing of printing machines and machine tools
Gifu	Nakatsugawa	43	▲	Tokai Plant, DNP Technopack	Manufacturing of packaging
Aichi	Moriyama-ku, Nagoya	44	●	Nagoya Plant, DNP Graphica	Plate-making / printing / bookbinding
Mie	Kameyama	45	□	DNP Color Techno Kameyama	Manufacturing of electronic precision parts
Kyoto	Ukyo-ku, Kyoto	46	▲	Kyoto Plant, DNP Technopack	Manufacturing of packaging
	Minami-ku, Kyoto	47	●	Kyoto Plant, DNP Data Techno	Manufacturing of various types of smart cards
	Kyotanabe	48	▲	Tanabe Plant, DNP Technopack	Manufacturing of packaging
Nara	Kawanishi, Shiki	49	●	Nara Plant, DNP Data Techno	Manufacturing of various types of smart cards
Osaka	Neyagawa	50	▲	Neyagawa Plant, DNP Technopack	Manufacturing of packaging
		51	▲	Osaka Plant, DNP Ellio	Printing and processing metal sheets
		52	□	Neyagawa Plant, DNP SP Tech	Manufacturing of all types of advertising items
	Kadoma	53	●	DNP Media Support	Manufacturing of magnetic cards
Hyogo	Ono	54	●	Ono Plant, DNP Graphica	Printing plate / printing / bookbinding
	Himeji	55	■	DNP Precision Devices Himeji	Manufacturing of electronic precision parts
Okayama	Okayama	56	●	Okayama Plant, DNP Imagingcomm	Manufacturing of dye-sublimation transfer materials
		57	▲	Okayama Plant, DNP Lifestyle Materials	Plate-making / printing plate / printing / processing
		58	■	Okayama Plant, DNP Fine Optronics*1	Manufacturing of electronic parts
	Kasaoka	59	□	Kasaoka Plant, DNP Fine Chemicals	Manufacturing of chemicals, etc.
Hiroshima	Mihara	60	■	Mihara East Plant, DNP Fine Optronics	Manufacturing of electronic precision parts
		61	■	Mihara West Plant, DNP Fine Optronics	Manufacturing of electronic parts
Tokushima	Tokushima	62	□	DNP Shikoku	Plate-making / printing / manufacturing of packaging
Fukuoka	Yahatanishi-ku, Kitakyushu	63	■	Kurosaki Plant No.1, DNP Fine Optronics	Manufacturing of electronic precision parts
		64	■	Kurosaki Plant No.2, DNP Fine Optronics	Manufacturing of electronic precision parts
	Tobata-ku, Kitakyushu	65	▲	Tobata Plant, DNP High-performance Materials	Manufacturing of solar cell filler
	Minami-ku, Fukuoka	66	●	Fukuoka Plant, DNP Graphica Fukuoka Plant, DNP Data Techno	Plate-making / printing / bookbinding
	Chikugo	67	▲	Chikugo Plant, DNP Technopack	Manufacturing of packaging

*1 As of April 2015, changed segment from Lifestyle and Industrial Supplies to Information Communication.

Overseas manufacturing sites with required business performance data disclosure

Business segments

●	Information Communication
▲	Lifestyle and Industrial Supplies
■	Electronics



1,2,4,5 April 2014–March 2015 totals 3,6–11 January 2015–December 2015 totals

Country	City	No	Business segment	Site	Work content
Italy	Agrate Brianza	1	■	DNP Photomask Europe S.p.A.	Manufacturing of photomasks
Denmark	Karlslunde	2	■	DNP Denmark A/S	Manufacturing of projection television screens
Netherlands	Amsterdam	3	●	DNP Imagingcomm Europe B.V.	Manufacturing of information media supplies
USA	Concord, NC	4	●	DNP Imagingcomm America Corporation	Manufacturing of information media supplies
	Pittsburgh, PA	5	●	DNP Imagingcomm America Corporation	Manufacturing of information media supplies
Singapore	Singapore	6	●	Tien Wah Press (Pte.) Ltd.	Offset printing and binding
Malaysia	Johor Bahru	7	●	DNP Imagingcomm Asia Sdn. Bhd.	Manufacturing of information media supplies
		8	●	Tien Wah Press (Pte.) Ltd.	Offset printing and binding
Indonesia	Pulo Gadung	9	▲	PT DNP Indonesia	Manufacturing of packaging
	Karawang	10	▲	PT DNP Indonesia	Manufacturing of packaging
Vietnam	Binh Duong Province	11	▲	DNP Vietnam Co.,Ltd.	Manufacturing of packaging

Independent Review Report Comments by an Independent Institution

On-site visit

Shiraoka Plant, DNP Book Factory

Okayama Plant, DNP Fine Optronics

Izumizaki Plant, DNP Technopack

DNP Group Environmental Report 2016
Independent Verification Report

To: Dai Nippon Printing Co., Ltd.

July 29, 2016

Bureau Veritas Japan Co., Ltd.
System Certification Services Headquarters

Bureau Veritas Japan Co., Ltd. (Bureau Veritas) has been engaged by Dai Nippon Printing Co., Ltd. (DNP) to conduct independent verification of its environmental data selected for inclusion in the DNP Group Environmental Report 2016, issued under the responsibility of DNP. The aim of this verification is to consider the accuracy of environmental data detailed in the Report and to provide a verification opinion based on objective evidence.

1. Verification Outline

Bureau Veritas conducted the following verification based on agreement with DNP.

Scope of Verification	Sites Visited	Verification Methodology
Environmental performance data for FY2015 marked with the symbol "☑" in the DNP Group Environmental Report 2016	- DNP's head office - DNP Book Factory Co., Ltd. Shiraoka Plant - DNP Technopack Co., Ltd. Izumizaki Plant - DNP Fine Optronics Co.,Ltd Okayama Plant	- Review of documentary evidence produced by DNP's head office and the sites visited - Interviews with relevant personnel of DNP's head office and the sites visited - Site inspection and review of data monitoring procedures - Comparison between the reported data and supporting documentary evidence

This verification was conducted using Bureau Veritas' standard procedures and guidelines for external verification of non-financial reporting, based on current best practice. Bureau Veritas refers to the International Standard on Assurance Engagements (ISAE) 3000 in providing a limited assurance for the scope of work stated herein.

2. Findings

On the bases of our methodology and the activities described above:

- Nothing has come to our attention to indicate that the reviewed information within the scope of our verification is inaccurate and does not provide a fair representation of the performance for the defined period.
- It is our opinion that DNP has established appropriate systems for the collection, aggregation and analysis of quantitative data within the scope of our verification.

Bureau Veritas has implemented a code of ethics across its business which is intended to ensure that all our staff maintain high standards in their day to day business activities. We are particularly vigilant in the prevention of conflicts of interest. Bureau Veritas activities for DNP are for sustainability reporting verification only and we believe our verification assignment did not raise any conflicts of interest.

Dai Nippon Printing Co., Ltd.

CSR-Environment & Product Liability Department

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